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# A UNIFIED DATA BASE APPROACH TO CORPORATE MANAGEMENT

by
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## A UNIFIED DATA BASE APPROACH TO CORPORATE MANAGEMENT

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#### **ABSTRACT**

The aim of this thesis is establishing a management information system in companies whatever its field of specialization. It also supplies some basic concepts of computer to the managers and introduces the activities of companies to the data base administrators. In order to meet this purpose, a suitable departmental organization is advised, the collection of data is analyzed, the scema is designed and the associated CODASYL program is written.

Bu tezin amacı, faaliyet sahalarına bakılmaksızın her tip şirkette bir yönetim bilişim sistemi kurulmasıdır. Bununla birlikte, şirket yöneticilerine kompüterle ilgili bazı temel kavramlar verilmekte ve veri tabanı yöneticileri şirketlerdeki faaliyetlerle tanıştırılmaktadır. Bu amaçla, bölümlerarası uygun bir teşkilatlanma tavsiye edilmekte, veri toplama işleminin etüdü yapılmakta, kayıt şeması çizilmekte ve buna bağlı CODASYL programı yazılmaktadır.

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#### INTRODUCTION

#### 1.1 STATEMENT OF THE AIMS

Nowadays in the world, the managers of firms are aware of the importance of fast data-processing. This is so, because in order to gain money one should at least have some information about the subject. Moreover, the decision makers know that the information is submitted to a rate of inflation although they cannot identify the problem; and in some cases this rate of inflation is even higher than the one with which the money loses value.

Especially in Turkey, the administrators desire using a computer, but they are faced with certain problems such as: "What should the size be?", or "where should the data be gathered from?". On the other hand, the data base administrators do not know the sources of data either.

The aims of this thesis is to make the engineers and the administrators meet at some common points plus design a

management information system valid for every type of company.

The study proceeds in three steps: in the first part, a departmental organization will be set up, the real flows of resources will be analyzed and a management system will be implied. In the second part, the information flow in the system will be described. The creation of the data base according to this system will be the subject of the third part. Just to prevent a totally theoretical work, all the study will be illustrated on an example, but an example which is as general as possible.

What is interesting is that as soon as the management system is set up, every other work follows an interdisciplinary way and the schema formed have almost the same lines as the organization chart, as will be seen in the next pages.

#### 1.2. ANALYSIS OF INFORMATION

Although the basis of life is pretended to be fire, water, etc, ... by philosphers of ancient times, the basis of life in society where men are in dialogue with each other, is information. This idea is also supported by the fact that our most important tool in life is the language which is the basic means of transferring information. Whatever

the objective, everyone needs at least a knowledge about the destination, the means, the location, the time, etc ... On the other hand, data starts existing as soon as an event happens and keeps this state independent of the conditions in the future, whether you need it or not, whether you get it or not. This means that data exists in time and can be transformed, that is added, subtracted, analyzed or synthesized into information.

In contradiction with the objective existence of information, its importance is subjective depending on the conditions or individuals. As a result of these two facts, the importance is a function of time. Moreover, this function is of exponential type in many cases, i.e., has the form:

Importance of information =  $A e^{-\lambda t}$ 

The two parameters A and  $\lambda$  are determined according to conditions and individuals, and in most cases the decision theory supplies the tools for this purpose. If the value of A is high, it means that the information is important. The parameter  $\lambda$  shows the behavior of the importance through time as it may be time dependent itself as well as A. Figure 1.1 shows some data which is of certain importance and which does not change importance after it begins existing

at time  $t_0$ . In this case,  $\lambda$  is zero.

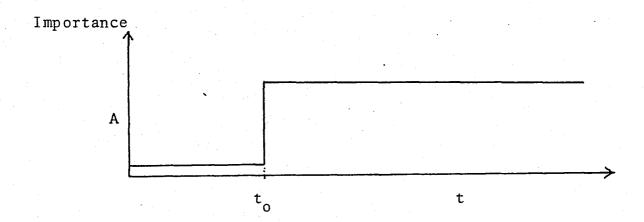


FIGURE 1.1. Step Importance Function of Information.

Suppose a case where information loses its importance as time passes because maybe accessible by more people. At time  $t_1$ , it is noticed that an error has been made in the theory. Then, the information has no value. After a while, at time  $t_2$ , the error is corrected. When the normal behavior continues, a condition which requires its knowledge arises at time  $t_3$ . And the data is spyed at time  $t_4$ . As shown in Figure 1.2, the value of  $\lambda$  and A are different in each interval of time.

For administrators, the case is also similar. A certain information can be of high importance till an event takes place. But after the even is over, they will have no need for it.

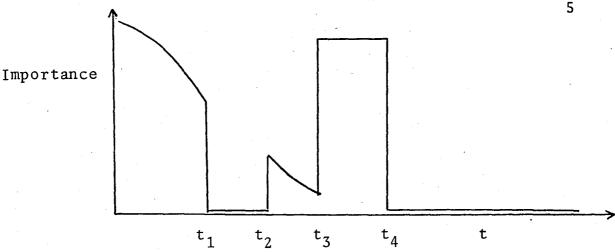


FIGURE 1.2. Example of Importance Function.

That is why, the complete and accurate data should be collected immediately after it begins existing, processed without mistakes and supplied to the administrator as soon as possible.

#### 1.3. NECESSARY AND SUFFICIENT CONDITIONS

To create a complete and accurate report, submitted on time, both the data sources and the processor should be reliable. At this point, and from now on in the whole work, it will be assumed that the processor causes no problem. This assumption is not so unrealistic because the environmental conditions and the technical maintenance should always be at required levels. Moreover, an experienced programmer can always supply the various types of reports, which are produced according to the administrators' decisions in real life, once he has the data stored. Therefore, collection of data will be the major problem. In fact, this is the point where data base administrators confronts serious difficulties.

To contribute to a report, a data unit goes through the following steps:

- 1. The existence of data should be discovered,
- 2. It is collected,
- 3. Stored and,
- 4. Processed.

One should notice that the first step is the most important one. Once a data unit begins existing, some people in the company know it; then the problem is getting it. For this purpose the departmental organization of a firm should be suitable. If not, then it means that the same type of data are known by different people, in different units. In this case, one may not know where to place the "control points" in order to collect this data. As a result, either it will be ignored or it is known so late that it has no value. On the other hand, once the departmental organization is established, the data can be collected, stored and processed according to decisions and all these

steps are implied by the previous ones. Therefore this is a necessary condition.

Second, the data should be in a suitable form. What is interesting, although many companies do not use computers, they use appropriate counters on which they print the data as if it will be processed in a computer. Moreover, people arranging them, and especially the accounters put some explanations. This last type of data can not be and must not be ommitted. Therefore, it should be expressed in a suitable format in order to give possibility to store on a storage unit. To conclude, the appropriate design of counters is the sufficient condition to feed the data to the machine.

To summarize, to have the complete and correct information on time, the organization of the company should be appropriate. Once the departments are set up in a suitable way, the next steps and the result will be implied directly.

#### II. CLASSIFICATION OF COMPANIES AND REPORTS

#### 2.1. CLASSIFICATION OF COMPANIES

When looked around, there are a lot of companies engaged in diverse fields. It seems that the conditions of each firm are particular. However, it is possible to classify them with respect to various characteristics. First of all, each firm is founded to gain money. Second, they sell something: service, material, information or money itself for this purpose. They sell their "somethings" to customers. In order to sell, in other words, to produce an output, they need some input. Furthermore, some of the companies transform the inputs, we say that they make production, or they sell them as they are bought. This last criteria is the basis of classification in this work.

Another alternative to this criteria is the way the firms work. They may trade, that is buy the input using money, keep it for a certain time, possibly transform it and then sell it. They many enterprise, that is promise to do a work but they get some advance payments as in the case of

construction companies which are engaged in contracts. At last, a firm can work on a commission basis.

In the last way of classification, money is the basic item while the first criterion accepts the material in essence. As for foundations such as banks, insurance companies or travel agencies that do not deal with real material, it is observed that they also have inputs and outputs. Why do we not see them as their particular materials? The material of banks is money, the material of the tourism sector is a person, the material of consultant firms is knowledge or service or both.

There, we can impose a classification according to "our" criterion as follows:

#### I. PRODUCTION FIELDS

- A. High Rate Production
  - Discrete Production (cars, spare parts, clothes, etc, ...)
  - 2. Continuous Production (paint, cement,
     textiles, etc, ...)
- B. Low Rate Production
  - 1. Construction of Buildings
  - 2. Construction of Ships

These production types can be further subdivided as standard and non-standard according to specialization of the firm. Given a field of activity, a company can be engaged in either of these two types (for example: discrete standard or discrete non-standard). However, a company should not work in more than one field.

#### II. MARKETING

- A. Marketing of Goods
  - 1. Domestic Market
  - 2. Export
- B. Marketing of Services
  - 1. Domestic Market
  - 2. Export

#### III. FINANCIAL FOUNDATIONS

- A. Banks
- B. Insurance Companies
- C. Others

The general view of a given company can be described as shown in Figure 2.1.

The desicion is given for buying a production factor such as material, technology, etc ... The production stage

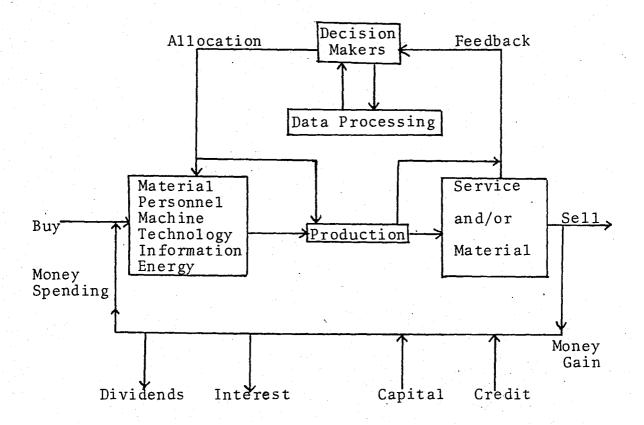


FIGURE 2.1. General View of a Company.

may or may not exist in every company but at least some of these factors exist. The output is either service or material. By selling them, the money comes in and it is reused for further production factors. Meanwhile, the information of finished products are fed to decision makers. The income of sales is not generally the only money input. The capital and the credits contribute to the money inflow, too. Money goes out of system either in return of production factors or as interest. The profit is also distributed as dividends.

What is interesting is that the data-processing department is very close to the administration, which is normal and as it should be, but it is away from the events since it cannot get the information from the real sources.

#### 2.2. CLASSIFICATION OF REPORT TYPES

The information expected by managers from a dataprocessing department are involved in many areas. The
grouping of these areas is done according to diverse criteria mostly imposed by the decisions of the administrators
and also by the laws. Here is a list of activities about
which they desire reports:

- 1. Accounting
- 2. Inventory
- 3. Fixed Assets
- 4. Machinery
- 5. Production
- 6. Personnel
- 7. Sales
- 8. Supply
- 9. Cost Accounting
- 10. Quality Control
- 11. Planning and Budgetting
- 12. Statistics

After receiving the order of solving the information problems in anyone of the fields stated above, the analysts begin studying the specific conditions of the company and try to identify the problem first. If they manage to do so, which is of very low probability, they begin designing the system. After awhile, a research on another field will be asked for and the major problem will arise if they try to relate any two previously designed systems.

This is so because the problem should be viewed globally. In other words, the reports should be grouped accordingly and instead of viewing each class as an independent system, the whole company should be considered as a system and each class as its subsystems.

#### III. DEFINITION OF A COMPANY

#### 3.1. INTRODUCTION

In the previous two sections, it was concluded that a company is a system which handles its particular material and earns money by setting it. But this conclusion is not sufficient to explain every activity. Although the administrators expect a definition composed of one single sentence including words with slippery meanings, a company will be analyzed in terms of its components and it will be treated as a multi-input, multi-output system in this study.

#### 3.2. COMPONENTS OF A SYSTEM

Each activity in a company can be expressed in terms of five components:

- 1. Material
- 2. Manpower
- 3. Machine
- 4. Money
- 5. Information

The managers have therefore four components whose names begin with M in hand through which they can administer a company. In order to decide, they need the information about activities. This means that they get information and they make decisions. They observe how things go using again information. If necessary, they make new decisions. This cycle shown in Figure 3.1 keeps repeating.

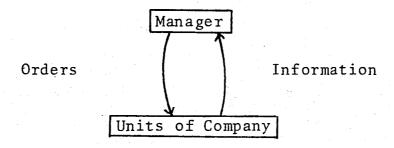


FIGURE 3.1. Decision-Information Cycle.

If one of these links is broken, then there will certainly be problems. On the other hand, the point at which information is collected (these points will be named "control points" from now on) should diffuse into the company.

These five components form a basis for a company.

After the definition of material in previous sections, this component always exists. Since the aim of a company is earning money, this one is also well defined. It is not so

unrealistic to assume that one single person cannot do all the work (note that only the big companies are considered), that is why the manpower is always needed. As for machines, for some of the firms (such as marketing), they can be neglected but most of the time, a company has some machines. In cases where they do not exist, this component can be omitted.

There are two more factors, energy and technology that are not taken into account, because they are dependent on the other five components. One uses energy only if there are machines. The water, fuel and electricity usage in offices are considered as overheads and depends on factors like number of employees, fixed assets, etc...

The technology is the name given to developments in one or more of these components. 'It is either a new machine requiring investment (money), or know-how, in which case a new person may be needed, etc....

Therefore, the set composed of 4 M and 1 I components forms a basis for the company systems. Each activity is expressed in terms of these five parameters and they are sufficient to express everything in the system.

As a result, a company is a system which has five kinds of input and also five kinds of output. Moreover, although there are complex relationships between them, the black box showing the company is defined by these five components.

#### 3.3. SUBSYSTEMS

Since there are five components in the system, is it not possible to subdivide it into five subsystems, each of them dealing with exactly one component? To be able to answer this question, components should be analyzed, which is the subject of the next section.

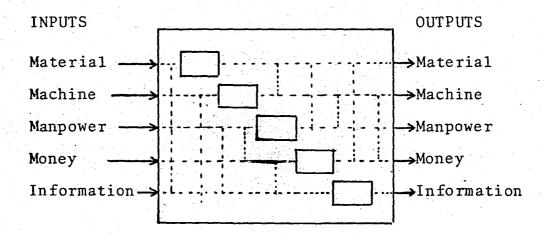


FIGURE 3.2. Subsystem.

#### IV. FLOWS IN THE SYSTEM

#### 4.1. FLOWS OF COMPONENTS

In terms of real flows, the five components go through all or some of the following steps:

a. Material

Comes in + Kept + Transformed + Kept + Goes out

b. Manpower

Comes in + Transforms + Goes out

If temporary going out, comes back in

c. Machine

Comes in + Kept + Goes out

d. Money

Comes in + Kept + Goes out

e. Information

Exists in the system + Processed + Exists
or and/or
Comes in goes out

The four M-components differ from the I-component in several ways. First of all, information does not exist physically while the others do. It can only contribute to report. It is not subject to decisions, but it helps managers on deciding.

As it is observed, there is nothing lost of these five components in terms of real flows. Whatever the amount coming in, it should go out. Therefore a company transforms the components but they are not decreased in quantities. The materials are transformed, united divided, etc...; workers and employees become old; machines get depreciated; money is earned and spent and as it is mentioned in the first section, information looses its importance; but nothing is decreased in quantity.

What is used then? Does a company use nothing?

Well, what is used is not the components themselves but their time. The workers are paid because their time is rented, the credit will be paid back but the time is used, so there are interests. The machines have an average life. Managers hate materials in warehouses because their time equals time of money; and information is submitted to the rate of inflation. Therefore, what should be analyzed, is

the time the components spend in the company.

#### 4.2. STAGES AND PHASES

Each component should be considered in three steps that will be named "stage" from now on:

- Before Stage: In this stage, the component is viewed as an input. It is either out of the system or has just entered and is kept physically.
- 2. During Stage: The component is in the system physically. It is either transformed, processed kept or transforms.
- 3. After Stage: The component is either exhausted or a candidate for outputting.

The above definitions are valid only for the four M-components. The information keeps existing or processed in any of the three stages.

Now, suppose an activity: it should be first planned and the conditions for it to be realized should be established. Then the activity is accomplished. At the end,

the result should be examined, that is the execution should be controlled.

Since these steps are true for any activity, each stage representing an event in terms of stated components, should also be further subdivided into three. These three subparts will be called "phases" and are: planning, execution and control.

The information is again an exception (of course after the software system is designed; for the periodic data processing work) but it has also the above three phases.

The data is collected when other M-components are controlled. During the execution phase, the data is processed. The reports should be supplied before new decisions about the 4 M-components will be given.

#### V. SYSTEM ORGANIZATION

#### 5.1. SYSTEM TABLE

What is said in all of the previous sections, is summarized in a table that will be called the "system table" since it describes everything in the system, that is in the company. An example of such a table is given in Table 5.1.

The properties of this table are as follows:

- a. The components are placed horizontally. The order among the 4 M-components can vary. However, the I-component should always occupy the right most column.
- of Before, During, After. Each stage is subdivided into 3 phases, planning, execution and control, ordered among them too.
- ning the corresponding component at the mentioned

Ę.	PHASE	COMPONENTS				
348		MATERIAL	MANPOWER	MACHINE		INFORMATION
BEFORE	PLANNING	PLAN THE PROCUREMENT	PLAN THE Manpower Requirements	PREPARE THE FEASIBILITY REPORT	PLAN THE Sources of meney	REPORTING
	EXECUTION	PROCURE	SEARCH NEW WORKERS	PRocure-	GET THE MONEY	DATA PROCESSING
	CONTROL	WAREHOUSE IN/OUT	R EGISTRATION	RECORDS	ACCOUNTING RECORDS	DATA COLLECTION
G	PLANNING	PLAN THE Production	PLAN THE Werk Programs	MACHINE TIME Programs		REPORTING
RIN	EXECUTION	PRO DV CE	Work	U \$ E	KEEP THE MONBY	DATA PROCESSING
Ŋα	CONTROL	WAREHOUSE IN/OUT	RECORDS	RECORDS		PATA COLLECTION
A.F.TER	PLANNING	PLAN THE Sales	PLAN THE FIRINGS	WHAT TO DO WHEN DEPRICIATED	PLAN THE SPENDINGS	RFPORTING
	EXECUTION	S ELL	FIRE	SELL OR DISCARD	SPEND	DATA PROCEEING
	CONTROL	RECORD THE SALES	RFCORDS	RECORDS	ACCOUNTING RECORDS	DATA COLLECTION

AN EXAMPLE OF SYSTEM CHART phase is described. What is observed is that there are no activities concerning Money at the planning and control phase of the During stage, which is true. In real life, if you put the money into cash, there is no plan done for it. The plan for spending it is a preparation of output and therefore is declared in the After stage. On the other hand, the only way of controlling the money in cash is watching and counting it all the time. Therefore, the money in cash cannot be controlled by data processing (and it seems that thieves know this fact quite well).

- d. The boundaries of the field of occupation of the company (i.e., the boundary of the system) can be drawn exactly. (See example in Figure 5.1.) Therefore, some of the boxes can be omitted according to the occupation of the company.
- e. If a box is assigned to one single department, one can find the departmental organization of the company, the responsibilities of these firms being already printed. If a box is assigned to more than one department, then there will be authority problems arising, which is one of the actual problems.

_		MATERIAL	MANDOWER	MACHINE	MONEY	INFORMATION
Ъ	P					
	Ę					
	С					
	P					
D	E					
	c					
	P					
A	Ē		•			
	9					

FIGURE 5.1. Example: Boundaries of a Small Marketing Firm Working on a Commission Basis.

f. Some companies use the time of the components, the system chart shows the time flows too. For the 4 M-components, the time advances as went down. This is true within a stage whatever the conditions. When considering all three stages, this is true for a specific component, for example, for the excentric press with chassis number 11001100. It is first bought (before), used (during) and when depreciated, it will no longer be used (after). What happens when all the components are taken into account, will be studied later.

In the case of information, the time advances upwards. Moreover, when passed thru M-component

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side to I-component side and visa versa, the time advances, too. This is because passing to I-component side means data collection and passing to the M-component side means reporting and obviously both events takes some time although not as much as it takes for the M-components going down. Figure 5.2 shows these time flows.

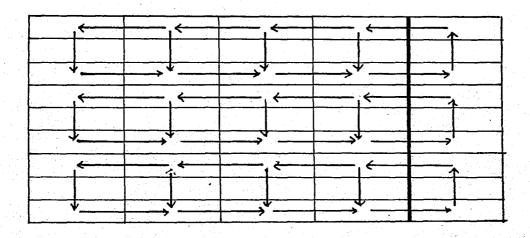


Figure 5.2. Time Flows.

g. The "control points" where the data is collected from are only in the control phases of each stage. This will result in the advantage of not disturbing people, that is not to oblige them to give reports all the time while they work. Moreover, specialized people can be put

at these positions which implies that the data will be as accurate as possible.

In the case of material, to control the production, the only way is waiting for the material to come to the warehouse, i.e., to reach the control point, because before this phase, there is no data. However, if there are some virtual warehouses among processes, this problem will be solved. This does not mean disturbing the producers since the employee will belong to the warehouse staff. The control points are stable although the component time is dynamic. As going down the table, the control points are sensed by themselves and therefore the information is collected.

h. A given component can pass through the during stage more than once. For example, a worker is assigned to a department. After awhile he may be sent to work in another department. Then it is a new plan, new work conditions and maybe new salaries so he recycles the during process. The same type of cycles are true for example if the worker is on leave or if a semi-finished product is stored in the warehouse and sent back

to the production shop.

i. The inter-departmental information flow is not direct but through the department dealing with data-processing. Since this last one gets every data, it can be viewed as a library. Moreover, after the reports are defined, there will not be much time lack in the information flows.

### 5.2. DEPARTMENTAL ORGANIZATION

One of the most important implications of the system chart is the departmental organization. Today, there is no objective criteria which will impose such an organization. The departments are established according to desires of the firm owners or dictated by politics. There are many cases where new departments are established although it is not necessary and even dangereous for administration but a given person cannot have a lower position than a director.

In fact this problem is easily solved too by the system chart because it gives the possibility to set up 43 different departments if you assign a department to each box or all the firm can be viewed as a single department. The authorities and the responsibilities of each department are specified clearly, which seems one of the major problems

encountered in real life. Moreover, at least one objective criterion is imposed by the system table.

By assigning the execution and control phases to different departments, one can establish the inter-departmental auspection, that is the auto-control of the system.

What is surprising is that there is no planning department. In fact, boxes corresponding to planning phases seem to be reserved to these departments but they are in fact only for planning of individual components for a single stage. A planner should consider every factor before setting up a model and giving advise. For example, in order to plan a machinery investment, he should know the characteristics of materials, monetary condition, etc. Nobody can expect one person to know everything. In this case, instead of a planning department, there should be a planning group of which men from departments dealing with material, manpower, money-machine and information are members. Of course, there may be some others only dealing with general plans.

As a result, a planning group is spread over the boxes corresponding to planning phase, in each of the 3 stages. This will not contradict the rule stating that each box should be assigned to a single department, because what

is found is a group, not a department and this group can only give advice. The short term plannings are performed by one single department for anyone of the components.

# Assumption

The suborganization of departments are not considered in this work. However, it will be assumed that the departments are organized such that they can transfer the data of an event produced to its control points.

# VI. TIME LAYERS

### 6.1. DEFINITION

In section 5.1.(f), the behavior of time on the system table was mentioned. It was also stated that the companies use the time components.

Now cut the system table horizontally in such a way that it is separated as shown in Figure 6.1. Then put the pieces one on top of the other to get the figure shown in Figure 6.2. These will be called "time layers".

On a single layer, the time flows in counter clockwise directions as shown in Figure 6.3.

On the other hand, the time goes down the three stages. Therefore, it seems there are two time axes, one going vertically and the other rotating horizontally as shown in Figure 6.4(a).

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FIGURE 6.1. Portioned System Table.

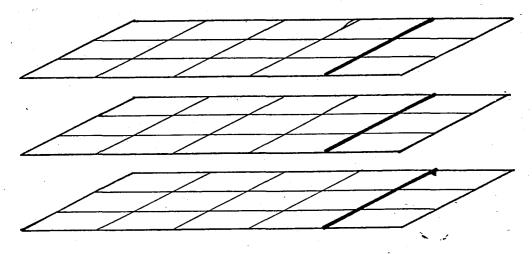


FIGURE 6.2. Time Layers.

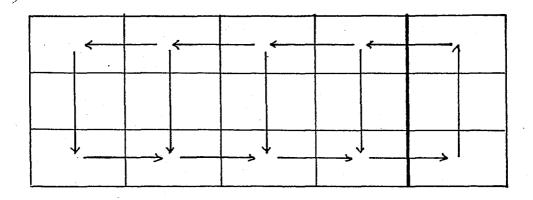


FIGURE 6.3. Time Flows on a Layer.

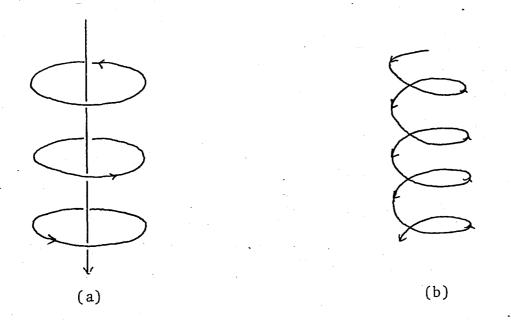


FIGURE 6.4. Time Axes.

When two layers are considered, the time on the upper one is in advance with respect to the one on the lower layer. Since the time axis is single, it has a spiral behavior as

shown in Figure 6.4.(b). If one feels himself uncomfortable with this spiral-shaped time axis, he can assume straight-lined downward time axis and time layers going down as rotating with a certain phase difference among them. Also note that since the spiral time axis is stretched to be made into a straight line, the layers are no longer horizontal but they are a bit inclined.

This representation is an argument of that the company lives, that is, it is active in time. A second fact is that the result of an event (data taken from the control point) in any stage can be used for planning the before stage of another event if it occurs after the one whose data is collected. Moreover, every information can be fed to any phase of any stage at any given time unless it occurs after the data-processing.

# 6.2. TWO DIMENSIONAL REPRESENTATION

Although the time layers are not discrete or rather the phase difference between successive ones is infinitesimal during the work time, in order to visualize things better, it will be normal to assume a certain big phase difference. After this assumption, the states and phases can be drawn in two dimensions for an interval of time as on Figure 6.5.

In this figure, the first letter represents the stage (B: Before; D: During; A: After) and the second represents phases (P: Planning; E: Execution; C: Control).

The first of these time layers is at the point when the company was founded. The administrators assume that a company lasts forever. We do not contradict this assumption in this work, i.e., the time layers keep being generated. As a result, no problem will arise if the data is assumed to start at the beginning of the time interval considered in Figure 6.5 on which we are going to examine some query paths in time.

The link 1 represents a plan which is used in the execution phase of the same stage. Link 2 shows the possibility of using a past experience in the planning of future events (After to Before, Control to Plan). Link 3 shows that the plans are the guides of the execution all the time.

If the fifth line is assumed to belong to a different component, links 4 and 5 says that all the past experiences of different components can be taken into account while planning an activity.

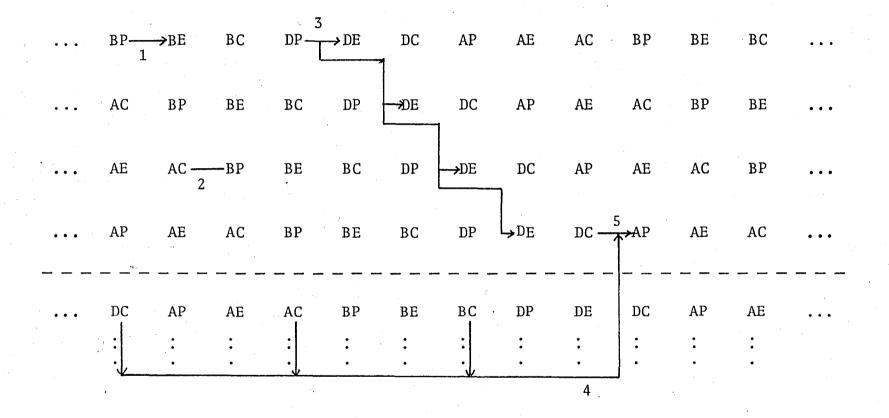


FIGURE 6.5. Two Dimensional Representation of Time Layers.

One can observe also that at a given time, there may be more than one occurrence of the same phase, of the same stage and even of the same component, which implies that all the activities exist all the time.

# VII. ILLUSTRATION ON AN EXAMPLE

### 7.1. PROPERTIES OF THE EXAMPLE

Once the departmental organizations are set, we can now turn back and begin to work in order to meet our aim which is "creating a data base such that whatever the company's specialization field, the records should include all the necessary information for any type of report". As it has been announced in the introduction, an example is going to be considered.

However, this example is away from being specific in the following senses. First, whatever the specialization field of the firm in which a management information system is to be set up, there should be an analogous company in the example.

Second, the data-base should include all the possible records. If some of them are unnecessary, they may be omitted without destroying the schema - therefore the links

should allow it. On the other hand, there should not be incomplete information although it is needed.

Third, both the managers who are assumed to ignore the computers totally should get at least some idea of it, and the system analyst should have some idea of the company before going deep to explore the details.

# 7.2. STATEMENT OF THE CONDITIONS

A group of companies is to be examined. There are five companies, each of them being specialized in different fields. These fields are such that the firms belong to different categories shown in section 2.1. The types of organizations are as follows:

- 1. A construction company which is a contractor of projects in the home country and outside. They are spread out in diverse worksites. These last one are grouped in regions which are determined according to geographical conditions or to countries.
- 2. A truck production company as an example of standard high-rate production firm. There are four models produced. Processes are therefore

standard.

There are assembly lines. Raw materials and spare parts are either bought from domestic market, imported or produced in workshops. Quality control is performed at the end of production.

- 3. A paint production company as an example of non-standard and continuous production firm. It works on an order basis, that is, it produces special kinds of products whenever demand occurs. Quality control of production is of high importance and done simultaneously during the production. If the semi-finished product, whose sample is tested does not accord with the standards, either it is discarded or the following processes are informed so that the product can be corrected.
- 4. A marketing company which sells the production of the two previous companies and also other manufacturers' goods. It supplies the material needs of the construction company in every region.

  Besides these, it exports some goods. It also buys goods in large quantities and packages them before selling.
- A holding company dealing with the administration and coordination of all the four firms.

One can assume some other firms too, but the characteristics of them will have been described by the combination of the characteristics of these five firms. Of course, this description will be in terms of components as it will be seen in the next section.

# 7.3. STEPS TO BE FOLLOWED

In order to design a management information system for a given group of companies, the steps are as follows:

- Analysis of the real and time flows of the 4 Mcomponents.
- Preparation of the system tables and of the time layers.
- Determination of control points. Assignment of departments.
- 4. Design and assignment of the counters to control points.
- 5. Design of the record types according to data on counters.
- 6. Design of the schemas.
- 7. Estimation of the storage needs.
- 8. Loading the schema.
- 9. Design of programs to produce the reports.

Each of these steps will be accomplished in the following sections except the last one since the report types differ from one manager to another. Instead of this step, the simulation of some query types will be performed.

# VIII. FLOWS OF COMPONENTS

# 8.1. REAL FLOWS

#### Money Flow

In this section, the real flows of the M-components will be analyzed. The fourth M-component, i.e., Money has a special view. Whatever the company, it comes in a certain department and goes out. It is not speculated in the system (Paying salaries means that money goes out of the company).

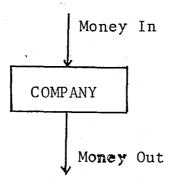


FIGURE 8.1. Money - Real Flow

#### Manpower Flow

The manpower flow is almost the same at the boundaries of the system in all the companies. In case of construction companies, there are lots of worksites, warehouses and production shops and the workers can be interchanged between different units. Although it is not as frequent as in the case of the construction company, in the other firms the workers can also change departments (departments in workshops or warehouse). This is true for the employees, too. Therefore, the manpower flow is the same for all of the five companies (see Figure 8.2).

# Machine Flow

For the case of the three companies, the construction company excluded, once included in the system, the machines are in fixed places. The instruments like drills can also be accepted at a fixed place since they are used in fixed places in these three companies (in fact such instruments are not expected to exist in the marketing company). The tools like hammers are not in the group of machines. As a result of these assumptions, it is possible to express the machine flow in one single chart as shown in Figure 8.3.

Some of the machines of the construction company can

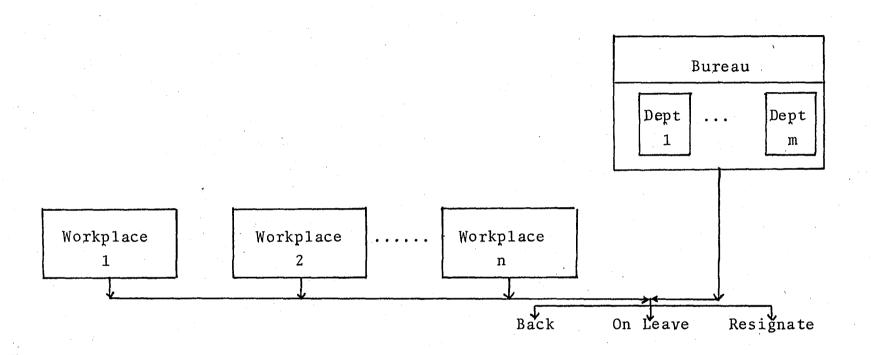


FIGURE 8.2. Real Manpower Flow

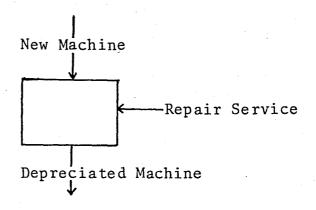
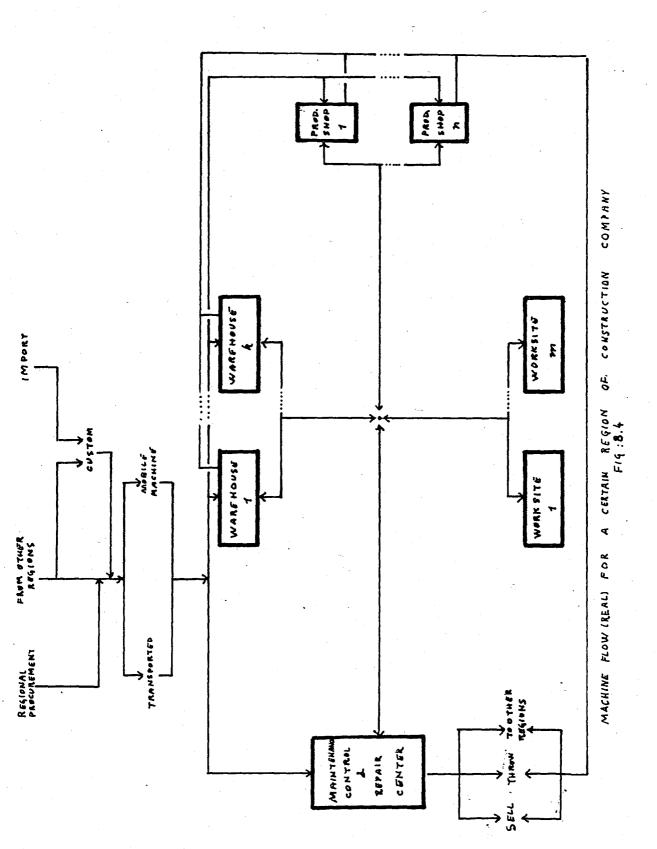


FIGURE 8.3. Real Machine Flow for Paint, Truck and Marketing Companies.

change locations, as in the case of concrete mixers and cranes. Such mobile machines are assumed to be directed by one center where there is also a repair shop. Note that the case of firms which distributes say drinks, or of transport organizations are similar. The vehicles go out, stay and work for some time (hours, days or months) and then they turn back. This means that although it seems there is no relationship between a transporting firm and a construction company, a subsystem of one can be valid for the other too.

Turning back to the construction company case, the machines can be imported, bought from domestic market or can be transferred among regions. This is true also for all the four M-components of the construction firm. That is why the flows are designed only for one region in Figure 8.4.



#### Material

When we go back to section 3, we see that the basic component in a company is the material. That is why this component will be analyzed one at a time for each case.

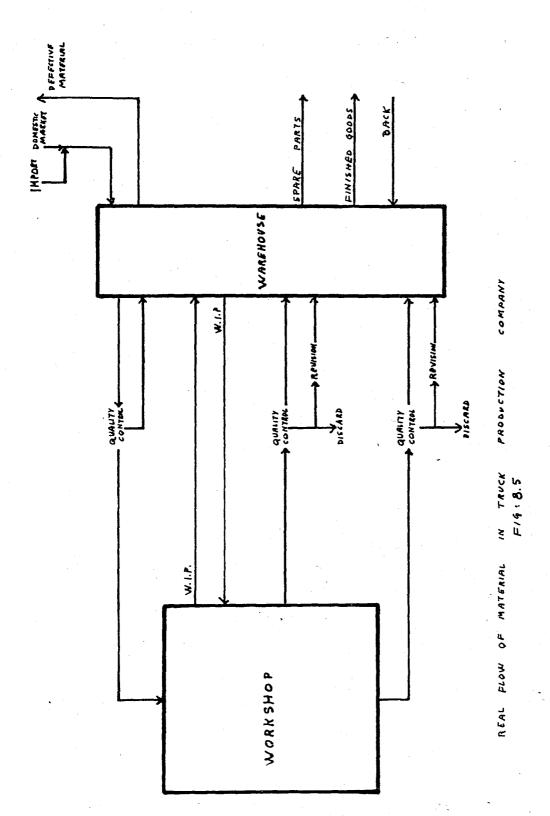
#### a. Truck Company

The raw material or the spare parts comes into the warehouse first where they are stored. They are first submitted to a quality control. If the materials are found to be defective, they are sent back, when the need arises, then they are taken into the workshop. During the process, some semi-finished products are stored in the warehouse. At this stage, there are some products temporarily stored in the production shop.

The finished goods are either spare parts or the trucks. In both cases, they are all tested. If they are found defective, they are sent to the repair shop. Here, they are either repaired and sent to the warehouse or discarded.

# b. Paint Company

The entrance of material is exactly the same as in the previous case. After the material is fed to the process, at some point, samples of semi-finished products are



taken and sent to the quality control department. If they are defective then there are two possible decisions to be made: either they are discarded or they are turned back to some previous process and mixed in other productions in small quantities. As a result, what enters into the warehouse is 100 percent non-defective.

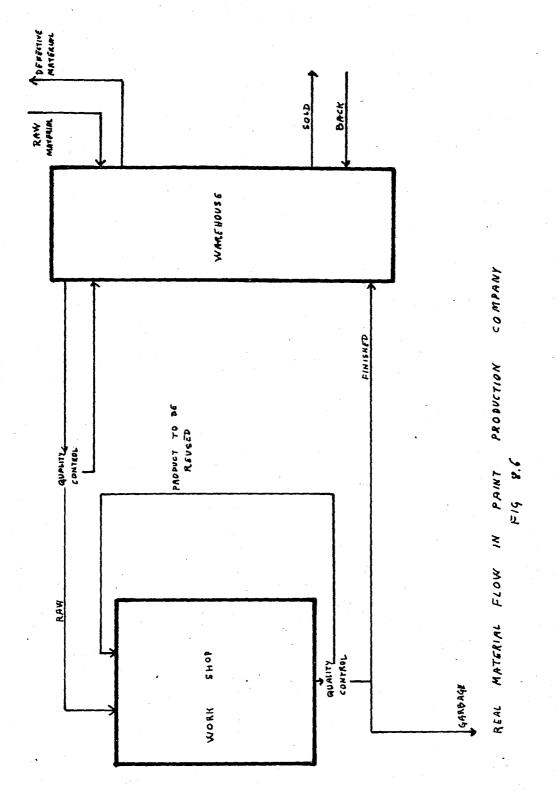
#### c. Marketing Company

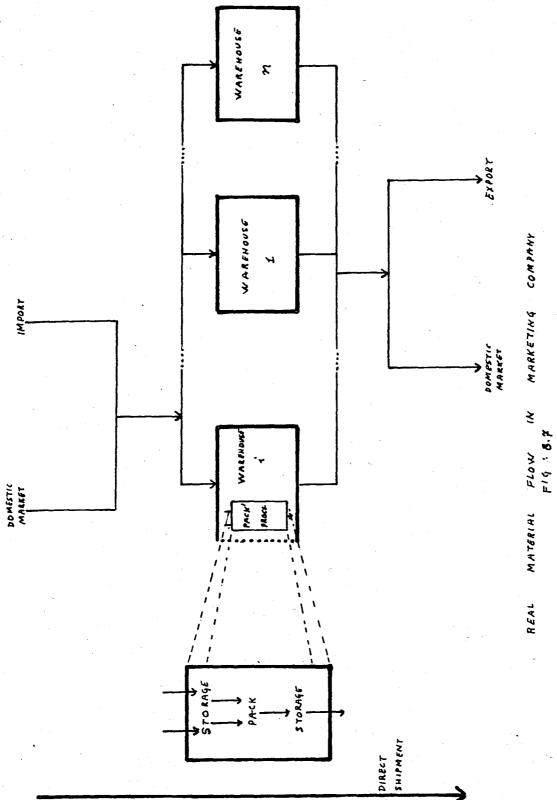
It is assumed that there are a certain number of warehouses in various cities. The materials are either imported or bought in the domestic markets and they can be sold again to the domestic market or exported. At the same time, some materials can be shipped directly from the supplier to the customer, that is they are not stored in the warehouses.

In some warehouses, the packing process is accomplished; that is the materials comes in in large sacks and they are subdivided into smaller bags and the packing material is supplied by the marketing company.

# d. Construction Company

Each region is considered as a system. The material inflow is classified in four categories:





- it may be purchased in the region,
- it may be transported from another region,
- imported from other regions,
- imported from suppliers.

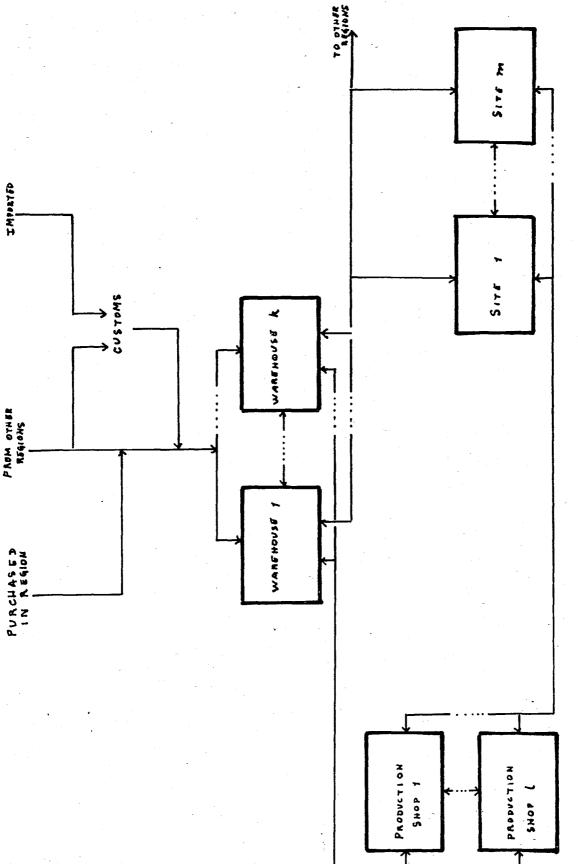
It is first stored in warehouses. If the material should be processed in the production shops, it is sent to those units. The material produced is either stored back in warehouses or supplied directly to the markets which are also fed directly by the warehouses.

An interesting point is that there is no material outcoming from the worksites because, it is used in construction and stays there. The exception of this case is sending back of the amount which is not used.

If there are shortages in other regions, the material can be sent to other regions in the same country but it is not exported since it is not feasible in most of the cases.

# 8.2. TIME FLOWS

After analyzing the real flows among departments, the activities should be mapped into time-axis where events are ordered and are explained later. Moreover, on these drawings showing the flows of components in time, it will be possible



MATERIAL FLOWS (REAL) IN A GIVEN REGION OF CONSTRUCTION COMPANY PIG 6.8

to show the stages. Figures 8.9 to 8.16 show these time flows.

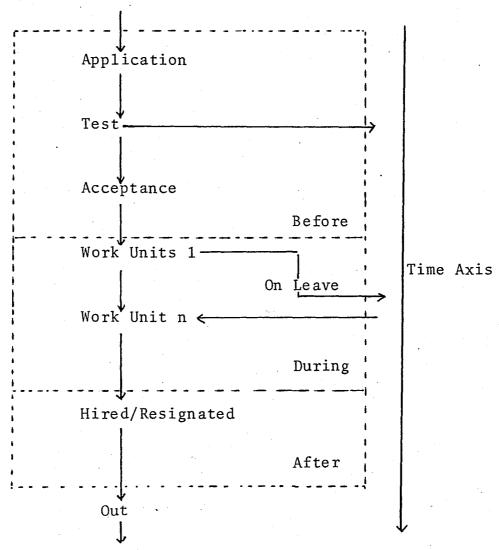
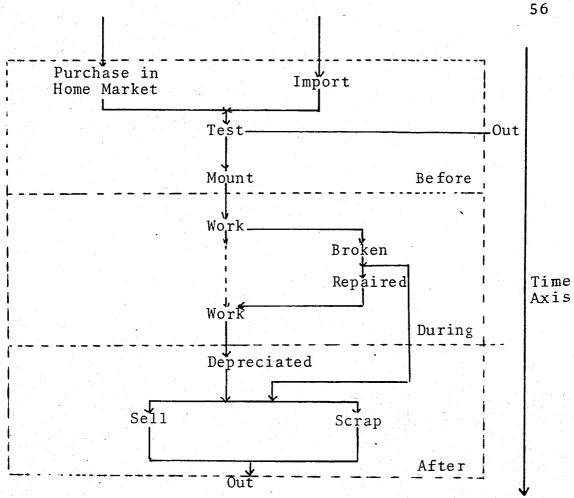


FIGURE 8.9. Manpower Flow in Time.



Machine Flow in Time for Paint, Truck and FIGURE 8.10. Marketing Company's.

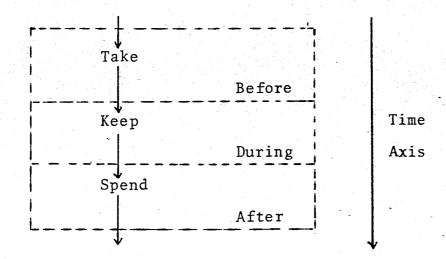


FIGURE 8.11. Money Flow in Time.

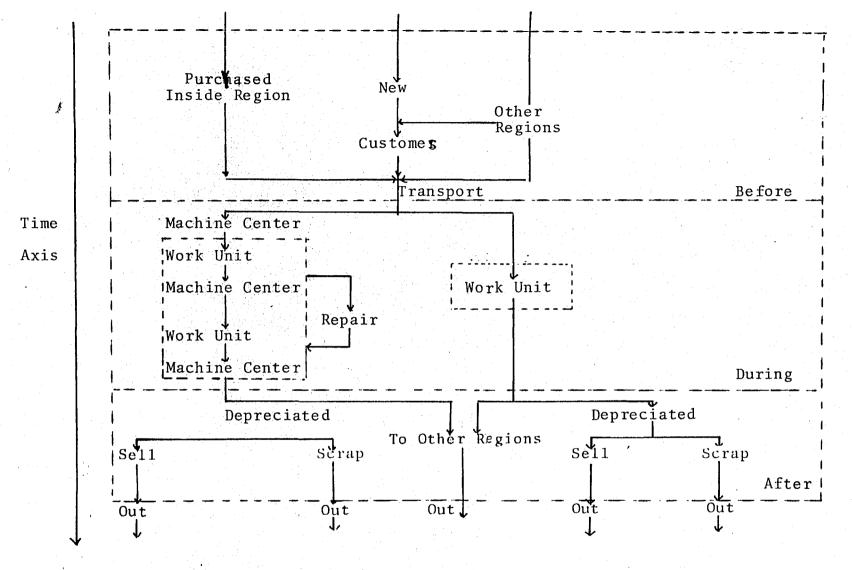


FIGURE 8.12. Machine Flow in Time for the Construction Company's Regions.

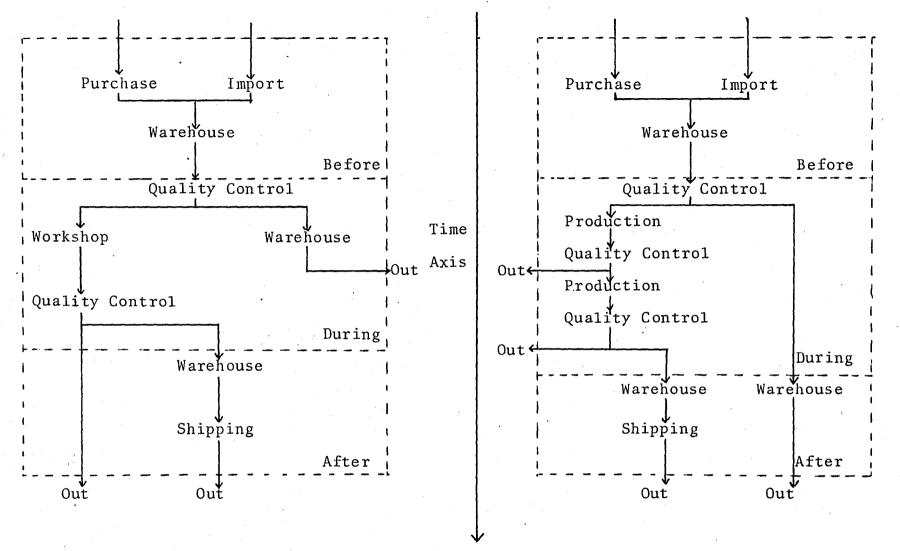


FIGURE 8.13. Material Flow in Time for Truck Company.

FIGURE 8.14. Material Flow in Time for Paint Company.

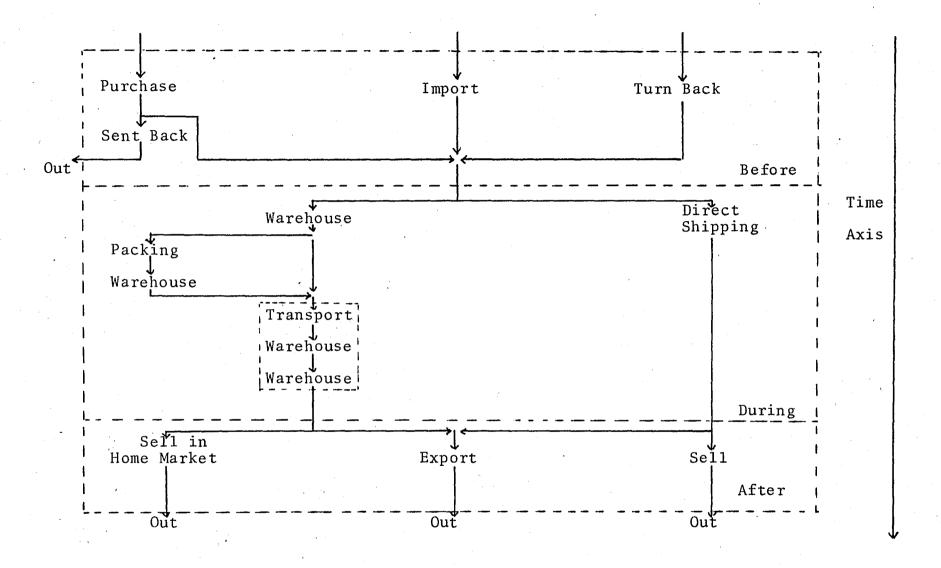


FIGURE 8.15. Material Flow in Time for Marketing Company.

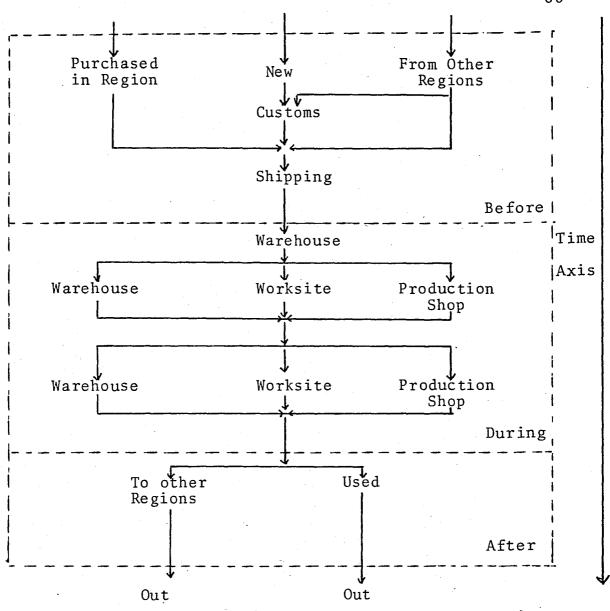


FIGURE 8.16. Material Flow in Time for Regions of the Construction Company.

# IX. SYSTEM CHARTS AND TIME LAYERS

In this section, all the companies activities are first mapped into system charts and then the time layers are designed accordingly. In all these steps, the time flows shown in the previous section are the essential guides.

As can be seen from the figures, the steps imply each other and they are all self-explanatory.

્ર્યું	PHASE	C O M P O N E N T S					
TAY'S		MATERIAL	MANPOWER	MACHINE	MONEY	INFORMATION	
ш	PLANN ING	DECISIONS ABOUT WHERE TO BUY. CONTRACTS ORDERING	MANPOWER NEEDS  DEMAND FROM OTHER  WAREHOUSES	FERSIBILIT REPORT	PLANNING THE Sources of Money	SUPPLY THE REPORTS	
FOR	EXECUTION	IMPORT / PURCHASE SHIPMENT/DISTRIBUTE	SEARCH /APPLICATION COMINGS PROM OTHER WAREHOUSES	IMPORT/ PURCHASE SHIP MOUNT	GET THE MONEY	DATA PROCESSING	
BE	CONTROL	. Warehouse in	REGISTRATION	Afcords & entaloques	RECORDS PUT THE MONEY ON CASH / BANK	DATA COLLECTION	
5	PLANNING	WHERE &WHEN & HOW MUCH TO STORE! HOW TO PACK?	DECISIONS ON WORK TYPE	PLANNING THE PRODUCTION		SUPPLY THE REPORTS	
RIN	FXECUTION	KEEPING / PACKING	WORKING	USED. WHEN BROKEN, REPAIRED	KEEP THE MONEY	DATA PROCESSING	
nα	CONTROL	WAREHOUSE OUT STORAGE IN/OUT	WORK HOURS, LEAVE DATES'S RECORDS	RECORDS OF USAGE. TIME & FACLURES		SATA COLLECTION	
æ	PLANNING	WHERE, WHEN, HOW TO SHIP? CONTRACTING	FIRING PLANS DISPLACEMENT PLANS	PEASIBILITY OF SALES DISPLACEMENTS' PLAN	WHEN, HOW MUCH TO SPEND! WHERE TO INVEST!	SUPPLY THE REPORTS	
H	EXECUTION	SHIPMENT EXPORT / DISTRIBUTION	SEPARATIONS . GOING TO OTHER WAREHOUSES	SALES, DISCARDING, SENDING TO OTHER WAREHOUSES	SPENDING/INVESTING	DATA PROCESSING	
AF	CONTROL	ANALYSIS OF SALES DOCUMENTATION GIVING BACK	FILING THE NAMES & PERSONNEL RECORDS	FILING THE TYPES AND CAPACITIES	R & cords	PATA COLLECTION	

MARKETING COMPANY SYSTEM CHART

TABLE : 9.1

्रह्म	PHASE	C O M P O N E N T S					
TRIST		MATERIAL	MANPOWER	MACHINE		INFORMATION	
E	PLANNING	DECISIONS ABOUT WHERE TO BUY, QUANTITY, QUALITY. CONTRACTING ORDER	MANDOWER PROGRAMS		SOURCES OF MONEY BANKS / CREDITS	RF PORTING	
FOR	EXECUTION	IMPORT / PURCHASE SHIPPING	SEARCH/ APPLICATION TEST OF QUALITIES	IM PORT / PURCHASE SHIP	GET THE MONEY	PATA PROCESSING	
BE	CONTROL	WAREHOUSE IN / OUT CONTROL ON QUALITY	REGISTRATION	QUALITY CONTROL	RECORDS  PUT THE MONEY IN  CASH / BANK	DATA COLLECTION	
5	PLANNING	DESCRIPTION OF PROCESS, USAGE TECNNIQUES, PAOS, PLANS	PECISIONS ON WORK PEPARTMENTS	MOUNT USAGE INFORMATION PRODUCTION PLANS		R&PORTING	
R - X	EXECUTION	TRANFORMATION PROCESSING	WORKING	USAGE	KEEP THE MONEY	DATA PROCESSING	
DA	CONTROL	WAREHOUSE IN/OUT QUALITY CONTROL	HOURS OF WORK	REPAIR / MAINTENANCE		DATA COLLECTION	
æ	PLANNING	WHEN & HOW TO	FIRING PLANS	FFASIBILITY OF	WHERE, WHEN, HOW MUCH TO SPEND! TO INVEST	REPORTING	
H	EXECUTION	5 H 1 P P 1 N G	SEPARATIONS	SELLING	SPEND / INVEST	DATA PROCESSING	
AF	CONTROL	REASONS & RECORDS	FILING PERSONNAL RECORDS	EILING THE TYPES A CAPACITIES	R & C & R D S	PATA COLLECTION	

TRUCK PRODUCTION COMPANY SYSTEM CHART

TABLE: 9.2

12	PHASE	COMPONENTS					
SHEY		MATERIAL	MANPOWER	MACHINE	MONEY	INFORMATION	
<b>.</b> E	PLANNING	HOW MUCH TO SHIP? WHERE TO BUY/TO BRING FROM? ORDER	PLANNING THE RE- QUIRED MANPOWER. FROM WHERE, WHEN?	FFASIBILITY REPORT MARKET SEARCHES.	SOURCES OF MONEY CREDITS /BUDGET / BANK /MYMENT CORTE	REPORTING	
FOR	EXECUTION	IMPORT / SHIP PURCHASE	SEARCH, EXAMINATION SEND, PERMISSION OF LEAVING	IMPORT / BRING SHIP / PURCHASE	GETTING THE MONEY	PATA PROCESSING	
BE	CONTROL	WAREHOUSE IN/OUT KEEPING S	REGISTRATION	QUALITY CONTROL	PUT THE MONBY IN CASH/RANK	TATA COLLECTION	
51	PLANN IN <b>G</b>	WORKPLANS, WORK- SITE'S TLANS SHIPMENT PLANS	WHICH WORK UNIT? HOW MUCH TO WORK? NEXT WORK UNIT?	MOUNT/USAGE INFO. WHICH UNIT TO SEND TO? REPAIR PERIODS		REPORTING	
RIN	EXECUTION	CONSTRUCTION PRODUCTION	WORKING SENDING TO OTHER WORK UNITS	USAGE	KEEP THE MONEY	DATA PROCESSING	
na	CONTROL	PRODUCTION CONTROL WAREHOUSE IN/OUT	WORK HOURS/WORK UNITS, DATES ON LEAVE / ON BACK	REPAIR & MAINTEL NANCE, HOURS WORKED IN EACH WORKUNIT		DATA COLLECTION	
<b>«</b>	PLANNING	WHERE, HOW, WHEN TO SHIP AMOUNTS DEMANDED BY OTHER REGIONS?	FIRING PLANS/ SENDING PLANS, DEMANS PROM OTHER REGIONS	1 / ' '	SPERDING PLANS, INVESTMENT MANS TRANSFER PLANS	REPORTING	
Ш 	EXECUTION	SHIPMENT/BXPORT	SEPARATION/SENDING TO OTHER REGIONS	SELL / DIECARD/ SEND TO BTHPR REGIONS	SPEND / INVEST TRANSFER	DATA PROCESSING	
AF	CONTROL	DOCUMENTATION	FILING THE NAMES AND PERSONNEL RECORDS	FILING WITH RESPECT TO OTHER REGIONS	ACCOUNTING RECORDS	DATA COLLECTION	

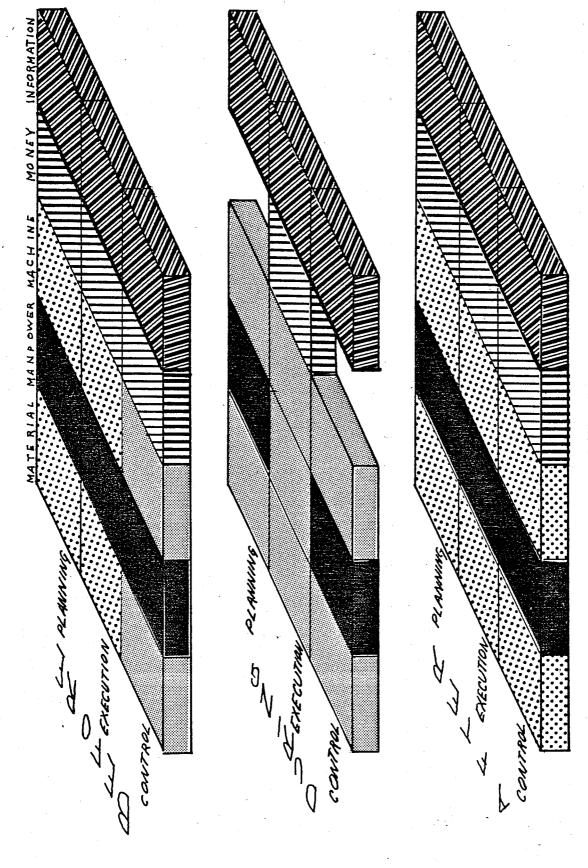
CONSTRUCTION COMPANY (one region)
SYSTEM CHART

TABLE: 9.3

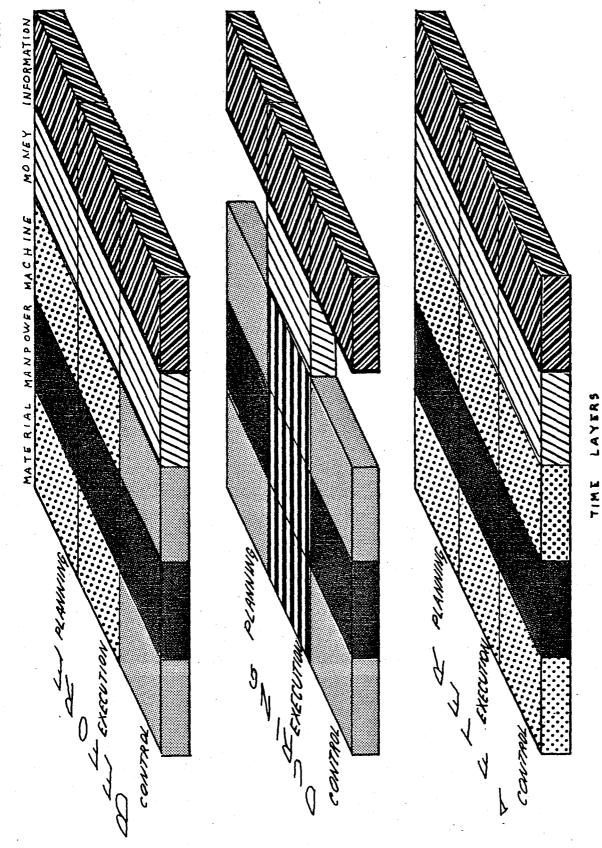
1	PHASE	COMPONENTS					
THE TY		MATERIAL	MANPOWER	MACHINE	MONEY	INFORMATION	
RE	PLANNING	DECISIONS ABOUT WHERE, WHEN, HOW MUCH TO BUY. QUALITY. CONTRACT	MANPOWER PROGRAMS	FFASIBILITY REPORT	SOURCES OF MONEY BANKS/CREDITS/ BUDGET	SUPPLY THE REPORTS	
F0	EXECUTION	PURCHASE /SHIP	APPLICATION TEST OF QUALITIES	IM PORT / PURCHASE S HIP	GET THE MONEY	DATA PROCESSING	
BE	CONTROL	WAREHOUSE IN/OUT QUALITY CONTROL	REGISTRATION	MOUNY QUALITY CONTROL	RECORDS PUT THE MIONEY IN CASH / BANK	DATA COLLECTION	
9	PLANNING	DESCRIPTION OF PRO- CESS. RESULTS OF Q.C. PRODUCTION ORDERS	DECISIONS ON WORK DEPARTMENTS	USAGE INFORMATION & TECHNOLOGY. PRODUCTION PLANS		SUPPLY THE REPORTS	
RIN	EXECUTION	PROCESSING	WORKING	US A GE REPAIR /MAINTENANGE	KFEP THE MONEY	DATA PROCESSING	
nα	CONTROL	SAMPLING . QUALITY CONTROL. WAREHOUSE IN /OUT	Hours of Work Leave Date	REPAIR & MAINTENANG RECORDS		DATA COLLECTION	
R	PLANNING	WHEN, WHERE, HOW TO SHIP! POTENTIAL PLANNING	FIRING PLANS	PEASIBILITY OF SALUS	MUCH TO SPEND/ NUCH TO SPEND/ INVEST?	SUPPLY THE REPORTS	
一日	EXECUTION	DISTRIBUTION / THEMENT	SEPARATIONS	SELLING / DISCARDING	spēnd / invest	PATA PROCESSING	
AF	CONTROL	STATISTICS. RECORDS. GIVING BACK	FILING THE RECORDS	FILING THE TYPES A CAPACITIES	R & CORDS	DATA COLLECTION	

PAINT PRODUCTION COMPANY SYSTEM CHART

TABLE: 9.4



FOR MARKETING COMPANY



FOR PAINT PRODUCTION, TRUCK PRODUCTION AND CONSTRUCTION COMPANIES = 19.1

## X, ORGANIZATION OF COMPANIES

#### 10.1. DEPARTMENTAL ORGANIZATION

As it is noticed, in the previous section, each box of time layers is shaded in a different pattern. This is to distinguish the departments assigned to these boxes.

Although there are various ways of coupling the activities and the departments, this way of distribution ensures the following conditions:

- a. Each component is assigned to as few a number of departments as possible. This will assure the components to be followed at each phase by specialized departments.
- b. The "procurement and sell department" is specialized in the relations of the company with other firms. It knows the market: where to buy the materials, what the prices are, what the formalities are, imposed by laws for the two components: material and machine. The procurement

and sales of machine could be assigned to a different department but since this type of activity does not occur frequently, it would be meaningless.

- c. In each production company, there should be a department which plans the details of production and supplies engineering support. Such a technical devision is assigned to planning and control phases of the during stage. Although it is the case in the three companies, the execution phase is also accomplished by the same department, because the activities involve all the stages.
- d. The "personnel department" deals only with manpower in all stages. It is specialized then in human relations and orientation of workers and employees.
- e. The "finance department" deals only with monetary affairs such as banks, cash, credits, etc. It seems that the "accounting department" is omitted, but the accounting is in fact a sequence of registration processes, and all the bookkeeping affairs will be arranged by the "data processing" department once the required data is fed.

f. In all three companies, except the marketing firm, the production phase is assigned to an individual department which dominates three companies. This is because the production is a synthesis of these three components, namely material, machine and manpower. The employees working in bureaus are administrated by the managers of the firms who will form a "virtual department" as will be explained later.

An important fact is that the departments' authorities and responsibilities are restricted at some limits.

Moreover, every department can control the others not directly but as watching the consequences of the execution.

Moreover, the group which performs the production is not responsible from other administrative activities and guided by plans. Although the production data is not generated at the production steps, it can be heavily controlled by the "engineering department". The uniformity of department organization of all the firms are to be notified.

## 10.2. INFORMATION AND DECISION PATHS

In this part, the information and decision links will be analyzed. For the time being, each region of the construction company and the other three firms (truck, paint and marketing) have their system charts, time layers which imply their departmental organizations. Since all the work regions belong to the same construction company, there should be a center where the administrative is present. This center has also a system chart representing the whole company. The material of this chart is the regions. Since there should be some personnel working and there are monetary activities, they are well defined components too. The fixed assets excepted, there is no machine component, but the information is still accompanying the other M-components.

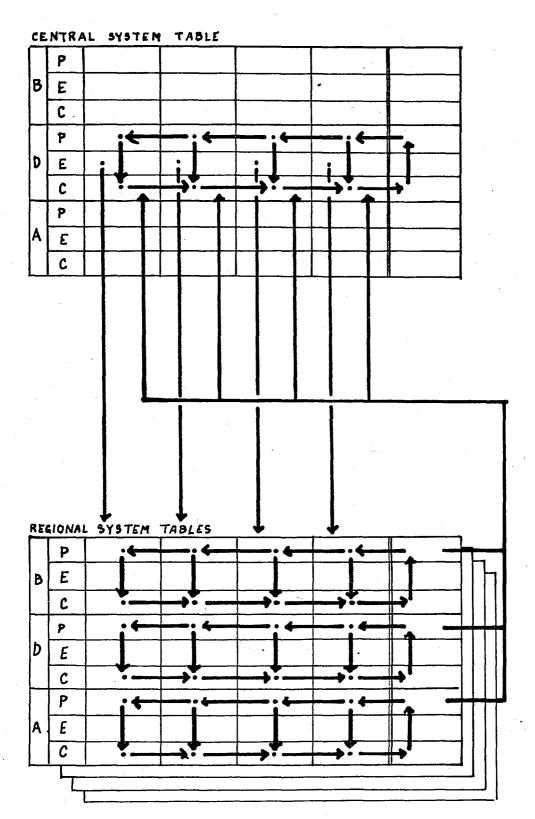
The before stage of this system chart represents the organization and plans for new regions and projects. The whole regions are in fact represented by the during stage of this central system table. The after stage of this table is reached when all the projects in a region are completed and the region is going to be closed. Of course, the managers assume and we do not wish the central activities to go totally to the after stage which means that the company goes to bankruptcy.

The information goes up all the time from the regions by the "information link" and the decisions taken in the center are sent through the "command lines". There are four

command lines, each of them belonging to one of the M-components and related to the departments dealing with these components.

As shown in Figure 10.1, the information is collected from departments in regions at the control stages of the M-components. They are processed and the reports are supplied to both planning phases and to the central system table. The information flow going up, starts from the planning phases of all stages (where the reports are prepared) to the control phase of the during stage of the central system table where they may be processed once more (for example for consolidation purposes). The reports are got at the planning phase of the central table, the decisions are taken and they are ordered to regions in the execution phases. The controls are again performed through the reports sent from the regions.

The holding company has also its own systems table possessing exactly the same characteristics as the central system table of the construction company. The only difference is that the subordinates of this table are the companies themselves. The relations are represented in Figure 10.1, in terms of four command lanes and one information line.



INFORMATION PATHS AMONG SYSTEM TABLES
FLG: 10.1

Note that the different companies are not communicating with each other directly which seems not abnormal since the coordination can only be done by the holding company. Furthermore, one can easily remark that the main storage unit should be located in the holding company. If the firms are located away from each other (which is certainly the case for the construction regions), the network is based on the central computer. Since no two companies are allowed to dialogue, the system will be neither costly nor complex.

A second note is the fact that this computer network has the same form as the organization chart, i.e., centralized organization is imposed.

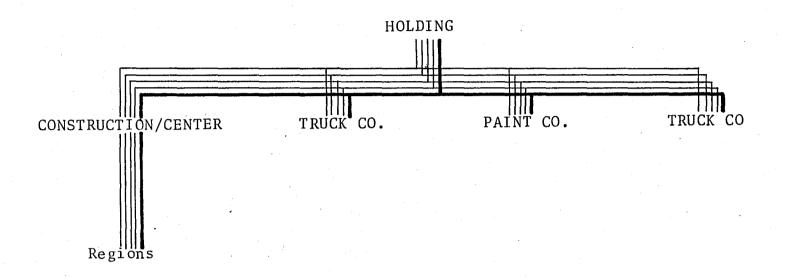


FIGURE 10.2. Information Line and Command Lines Among Companies.

## XI. TYPES OF DATA

At this level, an assumption is needed: If there is a data in a given department, it can be transferred to the computer by this division. By suitably designing the subdepartment, one can solve the problem of transferring data from a given department and therefore justify this assumption. For example, a warehouse employee can punch the part number and the quantity that was sent or a bookkeeper in the finance department can enter how much is paid in cash on a given day. All these activities can be assumed to be performed every day. There may be some objections like: "the books can only be written at least in one week because there will be transient accounts". Well, by a suitably designed accounts list, such a problem can easily be handled.

According to the above assumption, a data base administrator is able to know what type of data to get from which department. In this section, the name of the counters and the corresponding department responsible are listed.

#### 11.1 TRUCK PRODUCTION COMPANY

#### A. <u>Material</u>

- Material order form (procurement department)
- Warehouse entrance form of material (engineering department)
- Warehouse leaving form of material (engineering department)
- Part List updates (engineering department)
- Material supply form (to production shop) (engineering department)
- Finished goods entrance form (from production shop) (engineering department)
- Quality control results (engineering dept)
- Demand of materials (Sales department)
- Shipment of materials (Sales department)
- Material supply plans (engineering dept)
- B. Manpower (All the data is supplied by the personnel dept)
  - Registration form
  - Leaving form (including compelling reasons)
  - Changes in position/family/department
  - Pay roll
  - Separation of workers
  - Manpower plans

- C. Machine (All the data is supplied by the Engineering Department)
  - Machine characteristics' records
  - Repair and maintenance records
  - Spare part list
  - Spare part supply forms
  - Spare part demand forms
  - Feasibility reports on machine investments
  - Production plans
  - Machine sales report

(Only the last type of information is fed by the Sales department.)

- D. Money (All the data is supplied by the finance department)
  - Journals
  - Credit plans
  - Credit records
  - Cash reports
  - Import records
  - Bank accounts' counters
  - Credit certificates
  - Budgeting

The counters about manpower, machine and money will be more or less the same, so they will not be repeated in the following firms unless there are additions.

#### 11.2. PAINT PRODUCTION COMPANY

#### A. Material

- Material order form (procurement department)
- Warehouse entrance form (engineering dept)
- Warehouse leaving form (engineering dept)
- Material list updates (engineering dept)
- Material supply form (engineering dept)
- Samples sent to quality control (engin. dept)
- Results of quality control (engineering dept)
- Demand of goods (sales department)
- Shipment of materials (sales department)
- Material supply plans (engineering dept)

## 11.3. MARKETING COMPANY

#### A. Material

- Material order form (procurement department)
- Warehouse entrance form (administration dept)
- Warehouse leaving form (administration dept)
- Material list updates (administration dept)
- Packing records (administrative department)
- Regional sales' records (sales department)
- Export records (sales department)
- Market search and competitors reports (sales department)

#### B. Money

Besides the records mention in section 11.1, the data about exports should be fed by the finance department.

## 11.4. CONSTRUCTION COMPANY (REGIONS)

- Material order form
- Warehouse entrance form
- Worksites supply form
- Production shops supply form
- Material list updates
- Material supply plans
- Worksite reports

(All the records are fed by the engineering dept.)

## 11.5. SOME EXPLANATIONS

Although the contents of the counters mentioned above were examined in their minute details during the preparation of the work, they are not included here. This is because, the records of the schema that is drawn in the following sections were derived directly from this work. In other words, the contents of the counters can be directly determined by examining the records forming the schema. On

the other hand, one cannot further subdivide a given counter since the phases at which they should be prepared are fixed, however, some of the information can be neglected.

If the company is organized accordingly and if the computer system allows, some of these counters can be neglected and the data can be directly fed to the processor from on-line terminals.

### XII. DESIGN OF SCHEMA

### 12.1. A GENERAL VIEW OF THE SCHEMA

All the previous work is summarized in this section in a schema which is shown in the appendix. It is composed of 8 areas. Each of truck production, paint production and marketing companies is viewed as an individual area. For illustration purposes, one single region is assumed. However, if there are many of them, the consolidation is done at the center. The activities in the central organization of the construction company is described in a separate area as well as the holding company. The consolidation records are also collected in a separate area. In the meantime, the inter-area relations respects the links described in section 10.2. The general views of areas are represented in Figure 12.1.

The desing of this schema is given in the appendix together with the related CODASYL declaration program.

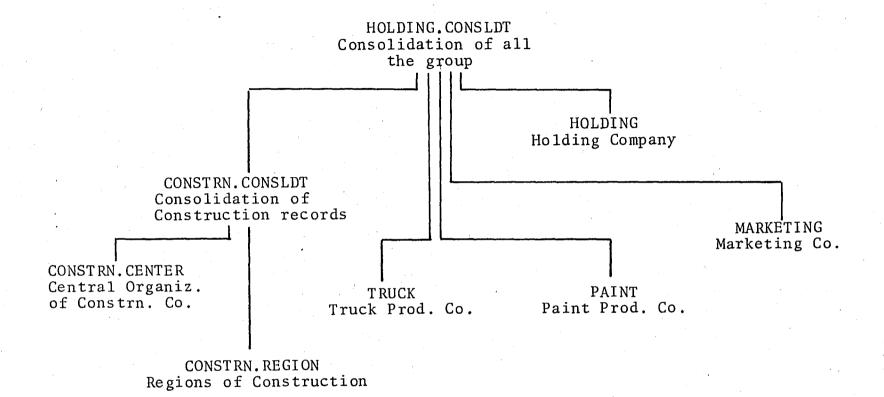


FIGURE 12.1. A General View of the Areas.

## 12.2. POINTER ORGANIZATIONS

All the set types that are encountered in the schema are defined in this section. The deletions, updates and insertions are explained on these types assuming owner records have been already accessed. This gives the possibility to explore the schema as soon as the set types are defined.

TYPE 1: Essential Type (< - >>)

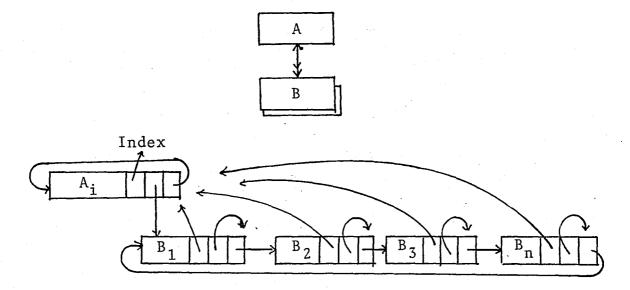


FIGURE 12.2. An Instant of Set Type 1.

Searching a record B<sub>k</sub> in a list of n records:

Expected No. of accesses = 
$$\sum\limits_{k=1}^{n}$$
 kx Probablity of k<sup>th</sup> record is the required one =  $\sum\limits_{k=1}^{n}$  k x  $\frac{1}{n}$  =  $|\frac{n+1}{2}|$ 

where the brackets | | show that the decimals are to be completed to the next natural number.

Insertion of a record in the list will go through the following steps:

- ( i) Step through the chain to determine the correct position for insertion
- ( ii) Modify the chain of the record before
- (iii) Load the pointers of the new record
- ( iv) Add the record to the overflow area.

For the first step, the expected number of accesses is  $\frac{n+1}{2}$  for a chain with n records. For the 2nd and 4th steps, one access per step is sufficient. Note that the third step does not require any accesses because the new record is written on the disk at the fourth step. Therefore:

Expected No. of accesses = 
$$\left|\frac{n+1}{2}\right| + 1 + 1$$

Deletion of a given record will require less accesses than the insertion because we assume the deleted record keeps staying in the file although it is no longer chained with others. Then the following steps will be followed:

- (i) Determination of the record to be deleted
- (ii) Change the next pointer of the previous record with the one of the deleted record

Expected No. of accesses =  $\left|\frac{n+1}{2}\right| + 1$ 

TYPE 2: (< - >)

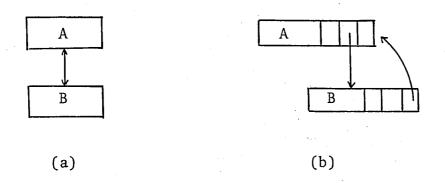


FIGURE 12.3. Set Type 2.

As it is clearly noticed, it is a very simple case of Type 1 set mentioned above.

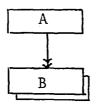
TYPE 3: (- >)



Although this type of set is ready on the schema, according to pointer declarations it will not exist and when this

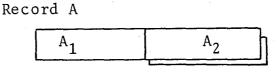
link is reached, the Type 2 set should be understood, i.e., there will always be access to the owner record. Such sets exist in the schema because there are certain owner records that nobody desires accessing from its member.

TYPE 4: (->>)



This type does not exist either as far as pointer organization is concerned, since it is a special case of Type 1 set and this last one is well defined. Type 4 set represents the fact that nobody will access record A from record B although it is possible.

TYPE 5: (A not quite flat record)



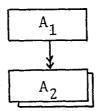
Although it is not a real set, the pointer organisation of this record type requires some explanation. In a not quite flat record, there may multiple values of an attribute associated with one entity. If variable-length

records were used, then there would be no problem. Since this is not the case, there will be three choices: first, the record can include more space than is needed, which results in wastage of storage.

1						 
i		Λ.		۱ ۸	l i	1
	A -	A <sub>2</sub>	I Aa	I A <sub>2</sub>	l I	1 1
i	1 I		1 4	1 4	1	1 1
				<del></del>		 

First method for storing all  $A_2$ 's.

Second, the records  $A_2$  can be separated from  $A_1$ . This last one points to an  $A_2$  record and all the  $A_2$ 's are chained among them, which results in a Type 4 set.



The third alternative which is also the one that is imposed in this work, is the storing k of the  $A_2$  fields and n with  $A_1$ , and chain the next k-type with this record, as shown in Figure 12.4.

To decide an optimal value of k, one can draw the graph shown in Figure 12.5 and read the value at the point where two curves intersect each other.

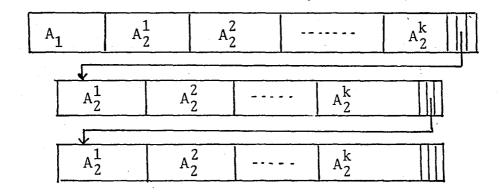
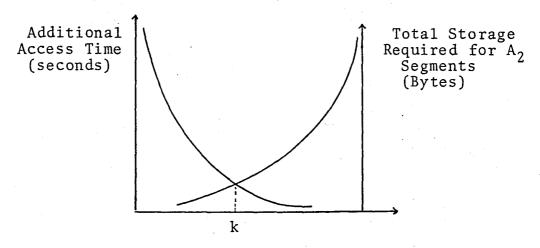


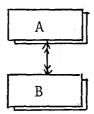
FIGURE 12.4. Chaining of Set Type 5.



Number of  $A_2$  Segments

FIGURE 12.5. Optimal Length of Repetitions.

The following two types are not single sets, but they occur so frequently that they are worth studying.



Since the many-to-many relationship is not defined, as it is accustomed, the link is expressed by one auxiliary record and two well defined sets (of essential type). On the schema, there is no many-to-many relations seen but instead, the following type is used.

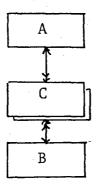
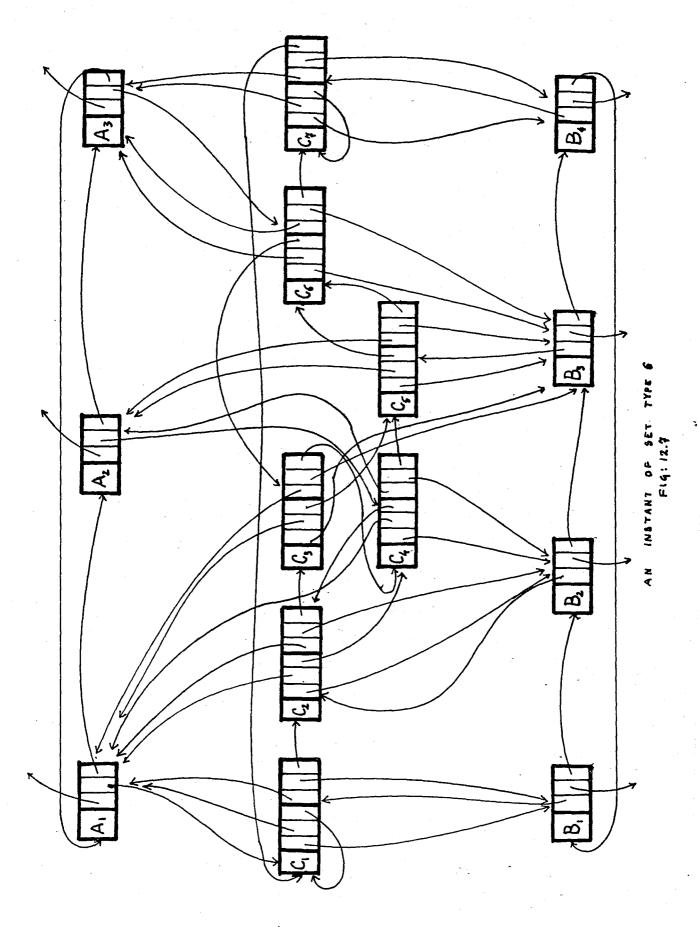


FIGURE 12.6. Two Level Representation of Set Type 6.

An instant of this type is shown in Figure 12.7.

Search of A and B types of records are through the same steps as illustrated for set Type 1, if they are accessed from outside (another record D or index). As soon as an A-record is located, the same process is repeated to access a C-type record. AC-record being reached, it implies directly a single B-record. As a result of this, to reach a B from an A, the expected number of accesses is:

$$\left|\frac{n+1}{2}\right| + \left|\frac{m+1}{2}\right| + \frac{1}{2}$$



where n is the length of the A-chain and m is the average number of record in a C-chain given a specific A record.

Insertion of A-type record goes down the following steps:

- Determine the correct position of the record to be added.
- Modify the chain of the record before and load the address of the next record to the next field.
- 3. Create as many C-type records as required.
- 4. Link the C-records to the A-record to be inserted.
- 5. Go down to a C-record then to a B-record from one of the old A-records.
- 6. Determine the correct B-record that should be linked. If there is no such B-record, go to step 11.
- 7. Load this B-record's address to member of field of C.
- 8. Access to the C-record using the owner field of this B-record and go to the end of list of older C-records.
- 9. Modify the next of the record before to insert the newly created C-record.

- 10. Reaccess the B-record chain using the member field and go to step (4) for the next B-record to be linked. Keep going until all links are established. When there is no more insertions, go to step 16.
- 11. Create a new B-record.
- 12. Modify the chain of the previous record and load the next record's address to the next field.
- 13. Load the member and owner pointers field of newly created B-record.
- 14. Load this B-record address to the member and owner pointers field of C.
- 15. Go to step 6 if there are more B-records.
- 16. Write down all the new records to the appropriate overflow areas.

To illustrate these steps, suppose an example with 'a' A-records, 'b' B-records and 'c' C-records, 1 new A-record is to be inserted and linked to n B-records, m of them being new too.

- Step 1 No. of accesses:  $\left|\frac{a+1}{2}\right|$
- Step 2 No. of accesses: 1
- Step 3 No. of accesses: (in the memory)

```
Step 4
              No. of accesses: - (in the memory)
Step 5
              No. of accesses:
                                     \left|\frac{b/n + 1}{2}\right| (N.B. files are in ascending order)
              No. of accesses:
Step 6
Step 7
              No. of accesses:
                                    1 + \left| \frac{c_1}{b} \right| Assume uniformly distributed chains
Step 8
              No. of accesses:
Step 9
              No. of accesses:
              No. of accesses:
Step 10
                                     1
              No. of accesses:
Step 11
                                     - (in the memory)
              No. of accesses:
Step 12
                                     1
                                    - (in the memory)
Step 13
              No. of accesses:
Step 14
              No. of accesses: - (in the memory)
               No. of accesses: 1 + n + m
Step 15
```

In this procedure, the steps 4 to 10 are repeated n-m times plus step 16 is repeated m more times. Steps 11-14 are also repeated m times. As a result, the expected total number of accesses is:

$$\left|\frac{a+1}{2}\right| + 1 + 2(n-m) + n \left|\frac{b/n+1}{2}\right| + (n-m) \left|\frac{c}{b}\right| + 1 + 2(n-m)$$

$$+ m + 1 + n+m = \left|\frac{a+1}{2}\right| + n \left|\frac{b/n+1}{2}\right| + (n-m) \left|\frac{c}{b}\right|$$

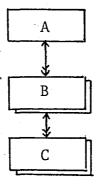
$$+ 6n - 3m + 2$$

Deletions of records will be much more simpler. For this purpose:

- Determine the correct position of the A-record to be added.
- 2. Modify the chain of the record before.
- 3. Access to a C-record and delete every owner and member pointers from C-records linking them to A.

Of course, in order to delete a B-record, it is meaningless to access it from A through C, i.e., if a B-record is to be deleted, the same procedure is followed.

TYPE 7: (< - >> < --- >>)



This is the representation of two level trees and it gives possibility to the tree to grow downwards and/or horizon-tally.

An instant of this type is shown in Figure 12.8.

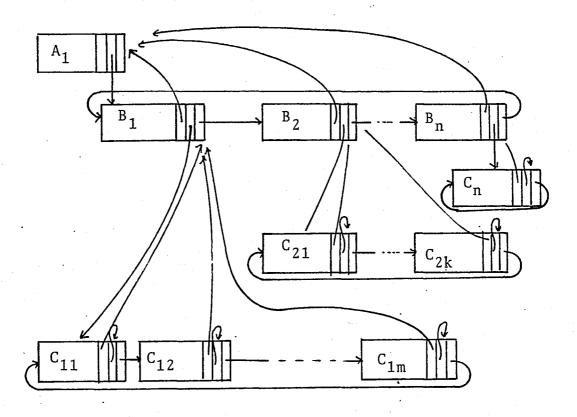


FIGURE 12.8. An Instant of Set Type 7.

The searches, insertions and deletions on this type is similar to the cases of Type 1 with the only difference being that the sequence should be repeated as many times as the levels.

## XIII. CALCULATION OF STORAGE NEEDS

# 13.1 NOTATION

In order to give the possibility to calculate the disk capacity requirement of such a system for any analogous example, first a notation should be introduced. The notation representing the number of records concerning the material components will be given individually for each company. However, those used for the other components except some cases of money, will be introduced only once for all the firms at all units.

## A. Construction - Region/Material

Total number of regions	R
Number of warehouses in region r	w <sub>r</sub>
Total number of warehouses	$W = \sum w_r$
Average number of parts in the list of each warehouse	p
Total number of part list records	W x p
Total number of suppliers	S

Average number of parts per supplier	Sp
All records are kept for a period of C months.	•
Total number of (yearly) demands	D
Total number of (yearly) invoices	I
Number of worksites per region	WS
Average monthly demand of worksite i	dw <sub>i</sub>
Total number of supplies Sup = WS	$x \Sigma dw_i x R$
Total number of known processes	PR
Average number of different materials per process	MATPR
Average number of different worker types per process	MANPR
Average number of different machines per process	MACPR
Average number of projects in a given region	PJ
Average number of buildings in each worksite	BLD
Average number in subunits (floors) per building	U
Different types of work in each subunit (detail)	WRK
A given work is completed in "a" attemps in ave	rage
Total number of works in all regions N = WRK	x R x WS x
BLD.	x U

# B. Truck Company/Material

Number of different parts bought		NOP
Total number of suppliers		NOS
Average number of parts per supplier	-	Sn

Records are kept for a period of C months

Average number of quality tests per part  $T_p$ Average monthly production per part  $Prod_p$ Total number of tests per year:  $T = T_p \times Prod_p \times C \times q \times NPW$ 

where q is the percentage of production tested,

NPW is the number of parts produced in the workshop Average number of yearly demand for part p  $d_p$  Total number of demands  $D = NOPS \times d_p$  where NOPS is the number of parts that can be sold. Each demand is shipped in "b" times.

We assume that each demand is satisfied

Total number of sales

 $SL = D \times b$ 

Number of orders for part "p" per month

Total number of orders  $0 = 0_p \times NOP \times c$ 

Each order is delivered in DEL times.

For each delivery, TD tests are done. There are TST different such tests.

There are DEPT departments in the workshop.

Average number of demands for part p per month from

departments is  $m_p$ .

Total number of demands  $DEM = NOP \times m_p \times c$ 

Each demand is supplied in SR times.

Total number of parts is represented by PLT = NOP + NOPS + NPW

Average number of entrances to warehouse for part "p" per month  $EN_{p}$ Number of models M Average number of processes for production of model i PRC; Total number of processes  $PRC = \Sigma PRC_{i}$ Average number of different materials used in one production MATP Average number of different worker types used in one production MANP Average number of different machines used in one production MACP  $SUB_p$ Average number of subparts for part p  $OPT_{p}$ Average number of optional parts for part p Each machine m uses  $t_{m}$  different types of energy.

# Number of different materials NPP Total number of suppliers NSP Average number of parts are supplier SP $_p$ Records are kept over a period of months. Average number of yearly demand for part p dpp Total number of demands DP = NOPPS x dpp

Paint Company/Material

with number of materials that can be sold = NOPPS Each demand is shipped in s times.

Total number of sales

SLP = DP x s

Total number of orders

 $OP = O_{p} \times NPP \times c$ 

where number of orders for past p month is  $\ensuremath{\text{O}}_p$  Each order is delivered in DELP times.

For each delivery, TDP tests are performed.

There are TSTP different tests.

There are DEPTP departments in the workshop.

Average number of demand for material p per month = mpp

Total number of demands

 $DEMP = NPP \times c$ 

Number of parts produced in paintship

NPWP

Average number of entrance to warehouse for

part p per month

ENPp

Number of different recipes

REC

Total number of parts in PLTP = NPP + NOPPS + NPWP

Each recipe r has  $PRODP_r$  production phases in average

Total number of production steps is  $PRODP = \Sigma PRODP_r$ 

Average number of different materials used

per production phase

MAT -

Average number of different worker types

used per production phase

MAN

Average number of different machines used

per production phase

MAC

Each machine m uses tpm different types of energy.

There are J different jobs per year.

At each phase p, there are  $QT_p$  quality tests.

WM

At each phase p, there are q products resulting Number of total quality tests  $Q = \sum_{p} Q T_{p} x q$  Average number of different information per test IN Each information i proposes for  $n_{i}$  different materials There are  $QT = J \times q$  quality tests performed in one year. From each production phase,  $k_{p}$  different by-products result Over a year, number of by-products recorded is WP

#### D. Marketing/Material

Number of warehouses

Total number of parts PM

Total number of suppliers SM

Each supplier produces an average of  $\text{SM}_{p}$  parts.

Records are kept over a period of c months.

Number of export customers NEXP

Number of domestic customers NDOM

Average number of monthly demands of export

customers MDEXP

Average number of monthly demands of domestic

customers MDDM

Each order is satisfied in "k" shipment.

There are REPR representatives.

EAch representative is controlled CM times per month.

Orders to supplier are done upon demands from customers.

The delivery of materials are equal to the shipment number.

There are PPACK materials that should be packed out.

For each material to be packed, only one type of material is used.

Therefore there will be DM = c(MDEXP + MDOM) demands and  $DELM = k \times D$  deliveries.

There are a total of COMP competitors.

Each competitor sells an average of CS different materials.

#### E. Personnel

Number of personnel in Construction/region r	•		$^{ ext{P}}\mathbf{r}$
Number of personnel in Construction/center			$^{P}c$
Number of personnel in Truck Co.			$^{\mathtt{P}}t$
Number of personnel in Paint Co.			Pp
Number of personnel in Marketing Co.			$P_{\mathbf{m}}$
Number of personnel in Holding Co.			P <sub>h</sub>
Total number of personnel NOPER = $\Sigma P_r$ +	P <sub>c</sub>	+ P <sub>t</sub>	+
	Pp	+ P <sub>m</sub>	+ P <sub>h</sub>

The following variables are assumed to be the weighted averages.

Average number of foreign language spoken by personnel FL

Average number of schools per person SCH

Average number of references per person REF

Average number of previous experiences per person EXPR

Each person has worked in PW departments in the past.

Average number of children per person CHLD

Total number of leaves per person

LVE

MI

The workers of the construction company works on

more than one worksite. As the result of this fact, the number of monthly work places and work day per person will be higher than 1, say WPD.

For all the companies, there are DEPAT different departments and worksites.

There are WTP different worker types.

The exemptions are classified into EXEMP groups.

The tax ratios are subdivided into TR groups.

#### F. Machine

Number of machines directly working in construction

affairs

MR

NR of these MR machines are recorded in more than one region.

Average number of regions for these NR machines XR

Number of machines in Truck Co. MT

Number of machines in Paint Co. MP

Number of machines in Marketing Co. MM

Total number of indirect machines

Therefore, total number of machine records is:

NOMACH = MR + NR (XR - 1) + MT + MP + MM + MI

Each machines uses PWT different power types at an average.

In Construction Co., each machine is used in WMCH different worksites per month.

In other companies, each machine is reserved for an average of PRT parts per month.

Average failure rate per machine FR per year

Average number of parts replaced each time QM

Periodic maintenance rate (per year) MNT

Each machine has an average of SPR subparts to be maintained.

Demand and supply of spare parts when substitution is needed.

Total failure record F = FR x NOMACH

Total maintenance record M = MNT x NOMACH

Total spare part demand/supply record DSR = SPR(F + M)

There are SM suppliers of spare parts; each supplying

NMAV parts at an average.

The parts are ordered when they are needed.

The number of fixed assets

NFA

#### G. Money

All the group gets a total of IL import license, each of them concerning IM kind of materials.

At each time, the collaborate with IS suppliers who deliver order in SK times. Total number of certificates of deposits

NCD

The balance sheet and the profit and loss statements will be automatically updated.

There will be L lines in each of them (B/S will then contain L Debit and L Credit lines), K of them being the titles of the groups.

These assumptions are valid for all companies. Therefore, each result will be multiplied by COM = Total number of regions plus five + two consolidate areas.

In all companies, the accounts are analogue.

Average number of subsidiary accounts per

ledger account

SAL

Average number of journal accounts per subsidiary account

JAS

There are LED ledger accounts.

Records will be kept over a period of c months.

The total of journal accounts is then JAC = LED x SAL x JAS Number of transactions per month TRANS

The group work with BB banks, in BR branches through BACC accounts per branch.

There are NCR credits which are used by the whole group, the interest rates of each can change DUR times in a year according to terms.

Each credit is used at CGD different dates and paid back in CPD times.

There are NP payables and NR receivables records with NBD bond details for the whole group.

The budget tables are organized such that the total number of DEPT; department are at the lowest level. Then are BUDAC accounts for each department. At each level i, the blocks are grouped in lots of LEV; elements. There are NL levels. So the total of budget level records is:

BDGL = 
$$\Sigma$$
 BUDAC ( $\Sigma$   $\frac{LEV_i}{i}$  + DEPT<sub>j</sub>)

with LEV  $_{NR}$  = DEPT  $_{j}$  for company j. Ration reports are prepared n times per month Total number of departments in truck and paint companies is

NPW is used as the total of number of models and recipe per department.

For the marketing company, the payments from customers are accepted over a period of h months.

Number of journal accounts corresponding to fixed assets records is "x", to payroll records is "y" and to ration records is "p".

For the purpose of illustration, the variables declared above are given some values which can represent medium sized firms. The lists in Appendix B show all the records and their lengths. Total number of records are given both in terms of variables and of the example value.

The names of records and pointers in Appendix B differ from the one declared in the program by one or two letters. This is because a same type of record is used in more than one area. Although the CODASYL language allows repetition of same type of records in more than one area, the record names are slightly changed to prevent possible confusion. However, the declarations are such that the values in the column of "total number of records" show the number of all the records in the schema over a period of c months.

# 13.2. STORAGE NEEDS OF THE EXAMPLE

To give a clearer view of storage requirements, let us analyze the figures obtained from the hypothetical example:

The total number of records that should be stored is 3,071,983

These records require a storage area of 119,304,509 Bytes

The total number of pointers is:

7,684,368

As it was assumed in the previous section, each pointer set is composed of 3 fields. In order to scan all the addresses, each field should have a length of 4 bytes, which means a pointer set corresponds to 12 bytes. Therefore, the total need for pointers is:

#### 92,212,416 Bytes

It is noted that the number of pointers is more than 2.5 times of the number of records. Moreover, their storage requirements ratio is 0.77. If instead of linking the records, they were duplicated, surely this storage requirement would be much more higher.

We assume that a fixed four bytes address is required for each record. This would result in

#### 12,287,932 bytes

Some of the records are indexed. One can assume that sparse indexing can be used and the length of this

file is about one-tenth of the original one. As a result of this, number of records in index files is:

59,766

Each index record being composed of two fields, one for the key and the other for the pointer, the total storage needs for index files is:

531,217 bytes.

As a result, the total disk capacity needed is calculated to be:

224,336,074 Bytes.

# XIV. RETRIEVAL OF INFORMATION

# 14.1. SOME FREQUENT QUERIES

In real life, the last step of such a work is writing the program. However, as already mentioned, there may be lots of different queries in a company according to the conditions. Some of them will be in the form of periodic reports, while there may be cases where a certain information is required for the first time and only once for a long period. These facts makes the listing of all possible queries impossible.

Essentially, the schema is designed such that every query will be supplied by the correct information. Since this is the case, what is interesting is the retrieval path and time. Some of the well known queries are studied below.

A. What is the total labor cost in department i in month j?

There exists more than one retrieval path. One can go for example, beginning from personnel list and control every record. Instead of this alternative, this information is reading in the record DEPT.STATISTICS. It is indexed with respect to department code. Let us assume a company with 20 departments and the area of this record is already accessed. Since the index files are assumed to be loaded in the memory, a chain of 10 records will be searched. Therefore, the average number of accesses is 6 according to the formula given in section 12.2.

B. What is the expected export in month i to the States?

The path is through records:

- CUSTMR. EXPORT
- MONTH.D
- ORDER.EXPORT

Assume: n customers, m of them being in the States

- :  $k_n$  months recorded for each customer
- :  $d_{kn}$  orders for each month k, for customer n
- Accessed to MONTH.D, all ORDER.EXPORT records should be scanned, i.e.,  $d_{kn}$  accesses.

- Accessed to CUSTMR.EXPORT, expected number of accesses for location month:

$$\left| \frac{k_n + 1}{2} \right|$$

Assuming the nation is expressed in the customer code, since it is indexed,

$$\frac{\frac{n}{10} + 1}{2}$$

accesses are required for the first customer in the States, then m accesses to scan all such customers. Therefore, the total number of accesses is:

$$\left|\frac{\frac{n}{10}+1}{2}\right|+m\cdot\left|\frac{k_n+1}{2}\right|\cdot d_{kn}$$

For the following values:

$$n = 50$$
  $k_n = 12$   $m = 6$   $d_{kn} = 0.5$ 

the total number of accesses is given to be 24.

Suppose average access time = 35 msecs.

Total retrieval time is then = 840 msecs.

It is possible to enumerate lots of such queries.

However, there are a few of them that are not answered in companies although the managers desire knowing the answer.

Two such quires follow.

C. It was told earlier that if the quality of paint (this is the case in soap and beer production too) does not conform to the standards, it may have to be discarded. In such a case, what would be the cost of this semi-finished product?

Just to satisfy this question, there is an individual record in area PAINT called W.I.P. By scanning the corresponding file, one can get an answer to such a question.

D. A second such question is the average actual stock holding cost. Today, the systems are designed such that the price of material in stock are calculated according to average cost principle. However, the above problem can be solved by FIFO (First In, First Out) method. One record is designed just to satisfy this question:

#### AVRG.STOCK.MONTH

to keep the past month's information. Furthermore, in the part list record, five fields are reserved for this purpose.

# 14.3. AN EXAMPLE OF COMPLEX QUERY

It is easily noticed that ordinary queries can be easily retrieved. In this last subsection before the conclusion, an example problem which can be solved only after at least a few days of study in the companies present today will be simulated:

"What is the answer that should be given to a certain demand?"

which is the crucial question asked by a salesman?

This query certainly involves many components because the following information should be retrieved:

- Cost of material
- Material needs
- Machine and manpower time availability
- The possible earliest shipment program

Such questions may be asked in any company, for example before adjudication in the construction companies.

Just to specify the area, the problem will be simulated in the paint production company. It is assumed that once a record is reached, all its sons can be accessed successively.

The sequence of records that should be accessed is as follows. To show the number of accesses, the notation declared previously will be used.

#### 1. PART.ID

No. of accesses 
$$\frac{NP}{10} + 1$$

The quantity remaining and its cost is determined. If the quantity in hand is sufficient, the answer is obtained. Otherwise, we go on processing.

#### 2. RECIPE

Since the link is one-to-one,
No. of accesses = 1

#### 3. PRODUCTION.PHASE

Each phase will be scanned

No. of accesses = PROD;

#### 4. MATERIAL.USAGE

No. of accesses = MAT

All materials used in production phase are scanned.

#### 5. PART.ID

No. of accesses = 1

since we branch from the above record. This is to learn the availability of materials that should be used.

#### 6. R.F.

No. of accesses = 
$$\frac{NS \times S_p}{PLT}$$

If the subparts are not available, they should be either bought or produced. For the latter case, we should repeat all the first 6 steps as many times as required.

Suppose all the materials are to be bought outside:
All the suppliers producing this part will be scanned for
this purpose.

#### 7. SUPPLIER

No. of accesses: 1

#### 8. MANPOWER. USAGE

No. of accesses = MAN after PRODUCTION.PHASE

All the manpower requirements (time and worker type) are found.

#### 9. MACHINE.USAGE

No. of accesses = MAC

The conditions are the same as above.

#### 10. Q.CONTROL

No. of accesses = 
$$\frac{Q}{PROD}$$

#### 11. QC.RESULTS

No. of accesses = 
$$\frac{QT}{Q}$$

## 12. QC.STATISTICS

No. of accesses = 1

At this level, the qualities of the past experiences are known.

#### 13. MONTH.X

No. of accesses = c

This is branched from PART.ID.

#### 14. PRODUCTION.PLAN

No. of accesses = 
$$\frac{NPW}{PLT}$$

#### 15. PRODUCTION. REAL

No. of accesses =  $EN_p$ 

Once the PRODUCTION.PLAN record is reached.

#### 16. MODEL.COST

No. of accesses = 1

The recent month's cost realization is retrieved.

#### 17. MACHINE.PLAN.REAL

No. of accesses = MAC

It is accessed from PRODUCTION.REAL to get the time where the machines are not occupied.

#### 18. PLAN. REAL

No. of accesses = MAN

This time, the data to arrange the manpower is retrieved.

After this stage, all the necessary data is ready and a suitable program can perform all the necessary calculations to answer the question. As a result,

Total number of accesses = 
$$\frac{\frac{NPP}{10} + 1}{2} + 1$$
  
+ PRODP<sub>r</sub> 1 + MAT (1 + 1 +  $\frac{NSP \times SP_p}{PLT}$  (1+1))  
+ MAN + MAC +  $\frac{Q}{PRODP}$  ( $\frac{Q}{QT}$  + 1 + 1)  
+ c 1 +  $\frac{NPWP}{PLTP}$  (1 + ENP<sub>p</sub>) (1 + 1 + MAC + MAN)

To illustrate this expression, one can use the values of the example in the appendix:

Total number of accesses = 
$$16 + 1 + 25 + 1 + 3(1+1+1)(1+1) + 2 + 1 + 2(1+1+1) + 12 + 1(1+25) (1+1+2+1)$$
= 2289 accesses

Average access time = 35 msecs implies total retrieval time = 80115 msecs = 1 min 20 seconds

## XV. CONCLUSION

In this study, the aim was to develop a management information system which is complete in all senses: It establishes objective criteria for organization of firms and explains the ways how a computerized system can be set up in a company.

One can ask the following question: "Is the proposed system applicable to real life companies?". This theoretical work says "Absolutely Yes" and it supports its answer: "Because this work is not isolated from real cases and it gets a lot of the basic knowledge from real life companies. The records are built according to the needs of existing companies.

Although this argument is not false, it can be criticized before observing a real case built up accordingly. However, there are some companies which are more or less managed by an organization similar to the proposed one, but of course there are deviations.

From the point of schema, a test can be performed. It can be related to some management games and simulated in this way. As a result of such a study which will take certainly lots of time, it will be possible to define the missed points. On the other hand, the ideal way of testing the proposed system is observing a company which is organized in this way.

To conclude, managers of a company can get the necessary information in the shortest possible time and as accurately as possible if and only if there is a certain organization that can feed the data to the computer, on time and accurately. Once departmental organization is established, each step will imply the other and the conflicts between data base administrators and managers will be expected to solve.

# APPENDIX A

NUMERICAL VALUES USED IN EXAMPLE

#### EXAMPLE VALUES ASSIGNED TO VARIABLES

#### Construction/Material

# R: 5 W: 10 p; 2,500 P: 25,000 S: 1,000 Sp: 30 c: 12 D: 18,000 I: 18,000 WS: 20 SUP: 180,000 dwi: 150 PR: 4,000 MATPR: 5 MANPR: 2.5 MACPR: 1.5 PJ: 5 BLD: 6 U: 2.5 WRK: 70 a: 1.3 N: 105,000

#### Truck/Material

NOP: NOS: Sp: C Tp: PRODp: T q: dp: D b: NOPS: SL: Op: O C C C C C C C C C C C C C C C C C C C	2,000 300 15 12 1.1 20 52,800 0.10 15 1500 1.2 100 Dxb 0.30 7,200 1 1 156 1 24,000 1.2 2,000 4,100 1 4 600 2,400 2 1 1 1 1
DEPT: mp: DEM:	6 1 24,000
SR:	1.2
NPW:	2,000
PLT:	4,100
ENp:	1
M:	4
PRC::	600
PRC:	2,400
MATP:	2
MANP:	1
SUBp:	1
OPTp:	1
tm:	1

#### Paint/Material

NPP: 300 NSP: 40 SP<sub>p</sub>: 10 C: 12 dpp: 6 DP: 300 NOPPS: 50 S: 5 SLP: 1,500 OP: 1,800  $O_{p}: 0.50$ DELP: 5 TDP: 2.5 **TSTP:** 50 DEPTP: 3 5 mpp: DEMP: 3,600 NPWP: 1,200 SRP: 4 ENPp: 25 REC: 50 PLTP: 1,500  $PRODP_r$ : 25 PRODP: 1,250 MAT: 2.5 MAN: 1.5 MAC: 1 tpm: 1.8 J: 60  $QT_p: 1.8$ q: 1 Q: 2,250 IN: 3 n<sub>i</sub>: 1 QT: 135,000 kp: 0.01 WP: 16,875

#### Marketing/Material

WN: 3

PM: 10,000

SM: 200

SMp: 200

c: 12

NEXP: 50

NDOM: 1

k: 3

REPR: 50

C: 1

PPACK: 100

DM: 3,600

DELM: 10,800

COMP: 20

CS: 200

		i i i i i	nine
<del></del>			
300		MR:	100
30		NR:	10
800		XR:	2 -
360		MT:	500
180		MP:	30
30		MM:	10
2,900		MI:	10
0.12		NOMACH:	800
1.4		PWT:	1.01
0.12		FR:	2
0.20		QM:	1
1.2		MNT:	2
2.7		SPR:	4
1		F:	1,600
1.5		M:	1,600
130		DSR:	12,800
100		SM:	100
20		NMAV:	130
	30 800 360 180 30 2,900 0.12 1.4 0.12 0.20 1.2 2.7 1 1.5 130 100	30 800 360 180 30 2,900 0.12 1.4 0.12 0.20 1.2 2.7 1 1.5 130 100	30       NR:         800       XR:         360       MT:         180       MP:         30       MM:         2,900       MI:         0.12       NOMACH:         1.4       PWT:         0.12       FR:         0.20       QM:         1.2       MNT:         2.7       SPR:         1       F:         1.5       M:         130       DSR:         100       SM:

TR: 6

NFA: 1,000

Money

BUDAC: 5

BDGL: 180

n: 1

NPW: 18

h; 3

x: 4

y: 130

p: 25

DPTS: 9

# Money IL: 200 IM: 1 IS: 1 SK: 1 NCD: 100 L: 30 K: 5 COM: 12 SAL: 3 JAS: 7 LED: 30 JAC: 630 TRANS: 1,200 BB: 10 BR: 15

BACC: 1

NCR: 20

DUR: 2

CPD: 1

CGD: 1.5

NP: 1,800

NR: 1,200

# LIST OF RECORDS

# CONSTRUCTION/MATERIAL

Record Name	Length (Bytes)	Total No. of Records	Example Needs (Bytes)
Warehouse.CR	17	W	170
Part.Id.CR	36	P	900,000
Remainder.CR	63	PXW	1,575,000
R.B.CR	23	SxSp	690,000
Supplier.CR	96	S	19,200
Month.A.Cr	4	CxPxW	1,200,000
Order.Plan.CR	57	D	1,026,000
Order.Real.CR	43	I	774,000
Supply.CR	50	SUP	9,000,000
Production.Data.C	R 28	PR	112,000
Material.Data.CR	32	PRXMATPR	640,000
Manpower.Data.CR	23	PRxMANPR	230,000
Machine.Data.CR	24	PRxMACPR	144,000
Region	17	R	85
Project	18	RxPJ	450
Worksite	17	RxWS	1,700
Unit	17	RxWSxBLD	10,300
Detail	17	RxWSxBLDxU	25,000
Work	63+35a	N	11,392,500
Material.Usage	29	NxMATPR	15,225,000
Manpower.Usage	22+11a	NxMANPR	9,528,750
Machine.Usage	29	NxMACPR	4,567,500
Month.B.CR	4	CxRxPJ	1,200

# TRUCK/MATERIAL

Record Name	Length (Bytes)	Total No.of Records	Example Needs (Bytes)
Part.List.T	165	PLT	676,500
Supplier.T	96	NOS	28,800
R.C.T.	23	NOSxSp	103,500
Avg.Stock.Month	n.T 25	CxPLT	1,230,000
R.E.T.	2	CxPLT	98,400
QC.Statistics.	Г 50	T	2,640,000
Demand.T	44x16b	D	94,800
Sell.T	48	SL	86,400
Order.Plan.T	10+340p	0	145,440
Order.Req1.T	43	OxDEL	309,600
QC.Test.T	22	OxDELxTD	158,400
Test.Data.T	40	TST	600
Month.Z	2	CxPLT	98,400
Supply.Plan.T	12+16mp	DEM	672,000
Supply.Real.T	37	SRXDEM	1,065,600
Production.Plan	n.T 25	CxNPW	600,000
Production.Rea	1.T 37	$CxNPWxEN_{p}$	888,000
Mode1	25	M	100
Process	55,	PRC	132,000
Material.Usage	19	MATPxPRC	91,200
Manpower.Usage	29	MANPxPRC	69,600
Machine.Usage	22+22tm	MACPxPRC	110,400
Subparts	19	$NPWxSUB_{p}$	76,000
Optional.Parts	25	NPWxOPT t	50,000

#### PAINT/MATERIAL

Record Name	Length (Bytes)	Total No. of Records	Example Needs (Bytes)
Part.List.P	163	PLTP	252,650
Supplier.P	96	NSP	3,840
	23		9,200
R. F. P	*	NSPxSP <sub>p</sub>	•
Avg.Stock.Month		CxPLTP	465,000
R.H.P	2	CxPLTP	37,200
Demand.P	44+16s	DP	37,200
Sell.P	48	SLP	72,000
Order.Plan.P	10+340p	OP	48,600
Order.Real.P	43	OP x DE LP	387,000
QC.TEST.P	22	OPxDELPxTDP	495,000
Test.Data.P	40	TSTP	2,000
Supply.Plan.P	12+16mpp	DEMP	331,200
Production.Plan	.P 25	CxNPWP	360,000
Supply.Real.P	37	DEMPxSRP	532,800
Production.Real	.P 37	CxNPWPxDEPTPxENPp	532,800
Recipe	47	REC	3,700
Production.Phas	e 64	PRODP	80,000
Material.Usage	19	MATXPRODP	59,375
Manpower.Usage	29 ·	MANxPRODP	54,375
Machine.Us <b>a</b> ge	24+22tpm	MACxPRODP	79,500
Q.Control	40	Q	90,000
QC.Info	51+19n <sub>i</sub>	QxIN	473,500
QC.Result	33	QT	4,455,000
QC.Statistics	40	QxC	1,080,000
W.I.P	82	WP	1,383,750
Month.X	4	12xPLTP	74,400

# MARKETING/MATERIAL

Record Name	Length (Bytes)	Total No. of Records	Example Needs (Bytes)
Warehouse.M	17	WM	51
Part.Id.M	36	PM	360,000
Remainder.M	63	PMxWM	630,000
R.L.M	23	SMxSMp	920,000
Supplier.M	96	SM	19,200
Month.A.M	4	CxPM	480,000
Demand.M	43+16k	DM	372,600
Delivery.M	52	DELM	561,600
Out.Pack	38	PPACK	3,800
In.Pack	70	PPACK	7,000
Custmr.Domestic	96	NDOM	24,000
Order.Customer	42+29k	MDDOMxC	387,000
Month.C	4	NDOMxC	12,000
Domestic.Sells	. 88	cxkxMDDOM	792,000
Custmr.Export	96	NEXP	4,800
Month.D.M	4	cxNEXP	2,400
Order.Export	42+33k	cxMDEXP	42,300
Export.Real	50	cxkxMDEXP	45,000
Representative	96	REPR	4,800
Competitors	99	COMP	1,980
Month.E	4	cxREPR	2,400
Repr.Real	113	cxCxREPR	67,800
Price.Quot.	23	CSxCOMP	92,000

# PERSONNEL

Record Name	Length (Bytes)	Total No. of Records	Example Needs (Bytes)
Personnel List	189+10FL	NOPER	551,580
Education	31	SCHxNOPER	125,860
References	50	REFXNOPER	17,400
Experiences	58	EXPRXNOPER	50,460
Previous.Work	42	PWxNOPER	146,160
Family.Info	22+20xCHLD	NOPER	220,400
Actual.Work	48+12xLVE	NOPER	174,000
Pay.Roll	455+7WPD	NOPERxc	16,199,400
Dept.Statistics	76	DEPATrc	118,560
Month.F	2	С	24 ·
Plan.Real	54	WTPxc	64,800
Exemption	21	EXEMP	420
Tax.Rate	15	TR	90

# MACHINE

Record Name	Length (Bytes)	Total No. of Records	Example Needs (Bytes)
Machine.List	164	NOMACH	131,416
Previous.Usage	14	(XR-1)NR	140
Present.Usage	30	MRxWMCHxc	180,000
Month.G	4	NOMACHxc	38,400
Plan	14	cxMRxWMCH	84,000
Mach.Plan.Real	41	cxPRTx(NOMACH-MR)	1,377,600
Failure	75+9QM	F	134,400
Maint.Detail	29 + 9QM	M	60,800
Maint.Plan	9+52MNT	SPRxNOMACH	361,600
Spare.Parts	101	SPRxNOMACH	323,200
Demand.Supply	64	DSR	819,200
R.N.	23	SMxNMAV	229,000
Supplier.Mach	86	SM	8,600
Order. Ship	59	DSR	755,200
Fixed.Assets	53	NFA	53,000

# MONEY

Record Name	Length (Bytes)	Total No. of Records	Example Needs (Bytes)
Import.LIcense	151	IL	30,200
License.Detail	5 7	ILxIM	11,400
Import.Prep	155	ILxIMxIS	31,000
Import.Real	243	ILxIMxISxSK	48,600
Certf.Deposit	89	NCD	8,900
BS.Total	19	COM	228
BS.Format	55	10xCOM	6,600
BS.Account	53	60xCOM	38,160
PL.Result	19	COM	228
PL.Format	55	5xCOM	3,300
PL.Account	53	30xCOM	19,080
Ledger.Accnt	37	COMxLED	13,320
Subsdr.Accnt	36	COMxSALxLED	38,880
Journal.Accnt	37	COMxJAC	279,720
Month.H	4 .	COMxcxJAC	362,880
Journal	66	COMxcxTRANS	11,404,800
Banks	65+28BACC	BR	1,395
Credit	108x8DUR	NCR	2,480
Credit.Get	59	CGD	1,770
Credit.Pay	59	CPD	1,180
Payables	60	NP	108,000
Receivables	60	NR	108,000
Bond Detail	101	NBD	121,200
Budget.Date	4.	C	48
Budget.Total	5 2	BUDAC	3,120
Budget.Level	56	BDGL	570,240
Ration	121	cxmxR	7,260
Dept.Date	28+15NPW	cxDPTS	47,412

Record Name	Length (Bytes)	Total No. of Records	Example Needs (Bytes)
Dept.Cost	43+22NPN	CXDPTS	47,412
Month.E	4	С	48
Mode1.Cost	4 7	2xcxNPN	20,304
L.C.Export	78	NDEXPxkxc	70,200
Paym.Plan.Dom	st 17	hxcxkxNDOM	459,000
Shipmt.Detail	286	NDEXPxkxc	257,400
Paym.Plan.Exp	. 17	hxcxkxNDEXP	45,900

# RECORDS OF CONSOLIDATION AREAS

Record Name	Length (Bytes)	Total No. of Records	Example Needs (Bytes)
Pers.Index	30	NOPER	87,000
Month.M	4	C	48
Total Payables	33	NP	59,400
Total.Recvbls	33	NR	59,400
Bank.Index	30	ВВ	300
Material.House	45	COM-2	450
Fixed.Assets	45	COM-2	450

APPENDIX B

CODASYL PROGRAM

#### SCHEMA NAME IS CORPORATE

AREA NAME IS HOLDING.CONSLDT

AREA NAME IS HOLDING.

AREA NAME IS CONSTRN. CONSLDT AREA NAME IS CONSTRN.CENTER

AREA NAME IS CONSTRN. REGION I

AREA NAME IS TRUCK

AREA NAME IS PAINT

AREA NAME IS MARKETING

RECORD NAME IS BS. TOTAL. HC LOCATION MODE SYSTEM WITHIN HOLDING. CONSLDT

01 DATE PIC 9(6) TYPE IS DATA-BASE-KEY

01 VALUE.TOTAL PIC 9(11) V99

RECORD NAME IS BS. FORMAT. HC LOCATION MODE VIA BTBFHC SET WITHIN HOLDING.CONSLDT

PIC 99 01 LINE.NO ASST.LIABLTY 01 PIC A

PIC X (35) 01 TITLE

01 UNDERLINE PIC A COLUMN.NO PIC 999 01

PIC 9(11) V99 01 AMOUNT

RECORD NAME IS BS.ACCOUNT.HC LOCATION MODE DIRECT LINE, NO WITHIN HOLDING. CONSLDT

PIC 99 TYPE IS DATA-BASE-KEY PIC X(35) LINE.NO 01

01 TITLE 01 COLUMN.NO PIC 999

A: OUNT .01 PIC 9(11) V99

RECORD NAME IS PL. RESULT. HC LOCATION MODE SYSTEM WITHIN HOLDING. CONSLDT

PIC 9(6) TYPE IS DATA-BASE-KEY 01 DATE

VALUE.TOTAL PIC 9(11) V99 01

RECORD NAME IS PL. FORMAT.HC LOCATION MODE VIAPRPFHC SET WITHIN HOLDING.CONSLDT

01 LINE.NO PIC 99 01 ASST.LIABLTY PIC A 01 TITLE PIC X(35) 01 UNDERLINE PIC A 01 COLUMN.NO PIC 999 01 AMOUNT

RECORD NAME IS PL.ACCOUNT.HC LOCATION MODE DIRECT LINE, NO WITHIN HOLDING.CONSLDT

01 LINE.NO PIC 99 TYPE IS DATA-BASE-KEY 01 PIC X(35) TITLE COLUMN.NO 01 PIC 999 01 AMOUNT PIC 9(11) V99

PIC 9(11)V99

RECORD NAME IS BUDGET.DATE.HC LOCATION MODE SYSTEM WITHIN HOLDING. CONSLDT

01 YEAR PIC 99 TYPE IS DATA-BASE-KEY 01 MONTH PIC 99

RECORD NAME IS BUDGET. TOTAL. HC LOCATION MODE DIRECT ACCOUNT. NO. WITHIN HOLDING. CONSLDT

ACCOUNT.NO PIC 99 TYPE IS DATA-BASE-KEY 01 ACCOUNT NAME PIC X(20) 0! 01 BUDGET . AMOUNT PIC 9(11) V99 01 REAL.AMOUNT PIC 9(11)V99

RECORD NAME IS BUDGET.LEVEL.IHC LOCATION MODE CALC PROC-BUDLEV USING LEVEL.NO DUPLICATES ARE ALLOWED WITHIN HOLDING. CONSLDT

01 LEVEL.NO PIC 9999

01 BUDAC TYPE BINARY

01 ACCOUNT OCCURS BUDAC TIMES

> 02 ACCOUNT.NO PIC 9(6) 02 ACCOUNT. NAME PIC X(20) PIC 9(11)V99 BUDGET.AMOUNT 02 PIC 9(11) V99 02 REAL.AMOUNT

There will certainly be more than one level, therefore the BUDGET. LEVEL.I record will be declared as many times as required, and this will be the case each time this record is encountered. Here, only the first and the last records are assumed to be declared.

RECORD NAME IS BUDGET.LEVEL.Z.HC
LOCATION MODE CALC PROC-BUDLEV USING LEVEL.NO
DUPLICATES ALLOWED
WITHIN HOLDING.CONSLDT

01 LEVEL.NO

PIC 999

01 BUDAC TYPE BINARY

01 ACCOUNT OCCURS BUDAC TIMES

02 ACCOUNT.NO PIC 9(6)
02 ACCOUNT.NAME PIC X(20)
02 BUDGET.AMOUNT PIC 9(11)V99
02 REAL.AMOUNT PIC 9(11)V99

RECORD NAME IS MONTH.M.HC LOCATION MODE SYSTEM WITHIN HOLDING.CONSLDT

01 YEAR PIC 99 TYPE IS DATA-BASE-KEY

01 MONTH PIC 99

RECORD NAME IS TOTAL.PAYBLS.HC LOCATION MODE DIRECT PAYABLE.TYPE WITHIN HOLDING.CONSLDT

01 PAYABLE.TYPE PIC 9999 TYPE IS DATA-BASE-KEY
01 DATE.DUE PIC 9(6)
01 AMOUNT PIC 9(11) V99
01 CREDITOR PIC X(10)

RECORD NAME IS TOTAL.RECVBLS.HC LOCATION MODE DIRECT RECEIVABLE.TYPE WITHIN HOLDING.CONSLDT

01 RECEIVABLE.TYPE PIC 9999 TYPE IS DATA-BASE-KEY

01 DATE.DUE PIC 9(6) 01 AMOUNT PIC 9(11) V99

01 DEBITOR PIC X(10)

RECORD NAME IS PERS.INDEX.HC LOCATION MODE SYSTEM WITHIN HOLDING.CONSLDT

01 IDENTIF.NO PIC 9(8) TYPE IS DATA-BASE-KEY

01 NAME PIC X(20)

01 WORK.COMPANY PIC 99

RECORD NAME IS BANK.INDEX.HC LOCATION MODE SYSTEM WITHIN HOLDING.CONSLDT

01 BANK.CODE PIC 9(10) TYPE IS DATA-BASE-KEY

01 BANK.NAME PIC X(20)

RECORD NAME IS MATERIAL.HOUSE.HC LOCATION MODE SYSTEM WITHIN HOLDING.CONSLDT

01 COMPANY, CODE PIC 99 TYPE IS DATA-BASE-KEY

01 COMPANY.NAME PIC X(20)

01 TOTAL.MATL.VALUE PIC 9(11) V99

RECORD NAME IS FIXED.ASSETS.HC LOCATION MODE SYSTEM WITHIN HOLDING.CONSLDT

01 COMPANY.CODE PIC 99 TYPE IS DATA-BASE-KEY

01 COMPANY.NAME PIC X(20)

01 FIXED.ASSET.VALUE PIC 9(11)V99

RECORD NAME IS BS.TOTAL.CC LOCATION MODE SYSTEM WITHIN CONSTRN.CONSLDT

01 DATE PIC 9(6) TYPE IS DATA-BASE-KEY

01 VALUE.TOTAL PIC 9(11) V99

RECORD NAME IS BS.FORMAT.CC LOCATION MODE VIA BTBDCC SET WITHIN CONSTRN.CONSLDT

01 LINE.NO PIC 99
01 ASST.LIABLTY PIC A
01 TITLE PIC X(35)
01 UNDERLINE PIC A
01 COLUMN.NO PIC 999

01 AMOUNT PIC 9(11) V99

RECORD NAME IS BS.ACCOUNT.CC LOCATION MODE DIRECT LINE.NO WITHIN CONSTRN.CONSLDT

01 LINE.NO PIC 99 TYPE IS DATA-BASE-KEY

01 TITLE PIC X(35) 01 COLUMN.NO PIC 999

01 AMOUNT PIC 9(11) V99

RECORD NAME IS PL.RESULT.CC LOCATION MODE SYSTEM WITHIN CONSTRN.CONSLDT

01 DATE PIC 9(6) TYPE IS DATA-BASE-KEY

01 VALUE.TOTAL PIC 9(11) V99

RECORD NAME IS PL.FORMAT.CC LOCATION MODE VIA PRPFCC SET WITHIN CONSTRN.CONSLDT

01 LINE.NO PIC 99 01 ASST.LIABLTY PIC A 01 TITLE PIC X(35)

01 UNDERLINE PIC A 01 COLUMN.NO PIC 999

01 AMOUNT PIC 9(11)V99

RECORD NAME IS PL.ACCOUNT.CC LOCATION MODE DIRECT LINE.NO WITHIN CONSTRN.CONSLDT

01 LINE.NO PIC 99 TYPE IS DATA-BASE-KEY

01 TITLE PIC X(35) 01 COLUMN.NO PIC 999

01 AMOUNT PIC 9(11) V99

RECORD NAME IS BUDGET.DATE.CC LOCATION MODE SYSTEM WITHIN CONSTRN.CONSLDT

01 YEAR PIC 99 TYPE IS DATA-BASE-KEY

01 MONTH PIC 99

RECORD NAME IS BUDGET.TOTAL.CC LOCATION MODE DIRECT ACCOUNT.NO WITHIN CONSTRN.CONSLDT

01 ACCOUNT.NO PIC 9(6) TYPE IS DATA-BASE-KEY PIC X(20)

01 BUDGET.AMOUNT PIC 9(11) V99 01 REAL.AMOUNT PIC 9(11) V99

RECORD NAME IS BUDGET.LEVEL.I.CC LOCATION MODE CALC PROC-BUDLEV USING LEVEL.NO DUPLICATES ARE ALLOWED WITHIN CONSTRN.CONSLDT

01 LEVEL.NO PIC 9999

01 BUDAC TYPE BINARY

01 ACCOUNT OCCURS BUDAC TIMES

02 ACCOUNT.NO PIC 9(6)
02 ACCOUNT.NAME PIC X(20)
02 BUDGET.AMOUNT PIC 9(11) V99
02 REAL.AMOUNT PIC 9(11) V99

RECORD NAME IS BUDGET.LEVEL.Z.CC
LOCATION MODE CALC PROC-BUDLEV USING LEVEL.NO
DUPLICATES ARE ALLOWED
WITHIN CONSTRN.CONSLDT

01 LEVEL.NO PIC 999

01 BUDAC TYPE BINARY

01 ACCOUNT OCCURS BUDAC TIMES

02 ACCOUNT.NO PIC 9(6)
02 ACCOUNT.NAME PIC X(20)
02 BUDGET.AMOUNT PIC 9(11) V99
02 REAL.AMOUNT PIC 9(11) V99

RECORD NAME IS MONTH.M.CC LOCATION MODE SYSTEM WITHIN CONSTRN.CONSLDT

01 YEAR PIC 99 01 MONTH PIC 99

RECORD NAME IS TOTAL.PAYBLS.CC LOCATION MODE DIRECT PAYABLE.TYPE WITHIN CONSTRN.CONSLDT

01 PAYABLE.TYPE PIC 9999 TYPE IS DATA-BASE-KEY

01 DATE.DUE PIC 9(6) 01 AMOUNT PIC 9(11) V99 01 CREDITOR PIC X(10) RECORD NAME IS TOTAL.RECVBLS.CC LOCATION MODE DIRECT RECEIVABLE.TYPE WITHIN CONSTRN.CONSLDT

01 RECEIVABLE. TYPE PIC 9999 TYPE IS DATA-BASE-KEY

01 DATE.DUE PIC 9(6)

01 AMOUNT PIC 9(11) V99

01 DEBITOR PIC X(10)

RECORD NAME IS PERS.INDEX.CC LOCATION MODE SYSTEM WITHIN CONSTRN.CONSLDT

01 IDENTIF.NO PIC 9(8) TYPE IS DATA-BASE-KEY

01 NAME PIC X(20)

01 WORK.COMPANY PIC 99

RECORD NAME IS BANK.INDEX.CC LOCATION MODE SYSTEM WITHIN CONSTRN.CONSLDT

01 BANK.CODE PIC 9(10) TYPE IS DATA-BASE-KEY

01 BANK.NAME PIC X(20)

RECORD NAME IS MATERIAL.HOUSE.CC LOCATION MODE SYSTEM WITHIN CONSTRN.CONSLDT

01 REGION.CODE PIC 99

TYPE IS DATA-BASE-KEY

01 REGION.NAME PIC X(20)

01 TOTAL.MATL.VALUE PIC 9(11) V99

RECORD NAME IS FIXED.ASSETS.CC LOCATION MODE SYSTEM WITHIN CONSTRN.CONSLDT

01 REGION.CODE PIC 99

TYPE IS DATA-BASE-KEY

01 REGION.NAME PIC X(20)

01 FIXED.ASSET.VALUE PIC 9(11)V99

RECORD NAME IS BS.TOTAL.H LOCATION MODE SYSTEM WITHIN HOLDING

01 DATE PIC 9(6) TYPE IS DATA-BASE-KEY

01 BALUE.TOTAL PIC 9(11)V99

RECORD NAME IS BS.FORMAT.H LOCATION MODE VIA BTBFH SET WITHIN HOLDING

01 LINE.NO PIC 99 01 ASST.LIABLTY PIC A 01 TITLE PIC X(35) 01 UNDERLINE PIC A 01 COLUMN.NO PIC 999

01 AMOUNT PIC 9(11) V99

RECORD NAME IS BS.ACCOUNT.H LOCATION MODE DIRECT LINE.NO WITHIN HOLDING

01 LINE PIC 99 TYPE IS DATA-BASE-KEY

01 TITLE PIC X(35) 01 COLUMN.NO PIC 999

01 AMOUNT PIC 9(11) V99

RECORD NAME IS OL.RESULT.H LOCATION MODE SYSTEM WITHIN HOLDING

01 DATE PIC 9(6) TYPE IS DATA-BASE-KEY

01 VALUE.TOTAL PIC 9(11)V99

RECORD NAME IS PL.FORMAT.H LOCATION MODE VIA PRPFH SET WITHIN HOLDING

01 LINE.NO PIC 99 01 ASST.LIABLTY PIC A 01 TITLE PIC X(35) 01 UNDERLINE PIC A 01 COLUMN.NO PIC 999

01 AMOUNT PIC 9(11) V99

RECORD NAME IS PL.ACCOUNT.H LOCATION MODE DIRECT LINE.NO WITHIN HOLDING

01 LINE.NO PIC 99 TYPE IS DATA-BASE-KEY

01 TITLE PIC X(35) 01 COLUMN.NO PIC 999

01 AMOUNT PIC 9(11)V99

RECORD NAME IS BUDGET.DATA.H LOCATION MODE SYSTEM WITHIN HOLDING

01 YEAR PIC 99 TYPE IS DATA-BASE-KEY

01 MONTH PIC 99

RECORD NAME IS BUDGET.TOTAL.H LOCATION MODE DIRECT ACCOUNT.NO WITHIN HOLDING

01 ACCOUNT.NO PIC 9(6) TYPE IS DATA-BASE-KEY

01 ACCOUNT.NAME PIC X(20) 01 BUDGET.AMOUNT PIC 9(11) V99

01 REAL.AMOUNT PIC 9(11)V99

RECORD NAME IS BUDGET.LEVEL.I.H
LOCATION MODE CALC PROC-BUDLEV USING LEVEL.NO
DUPLICATES ARE ALLOWED
WITHIN HOLDING

01 LEVEL.NO PIC 9999

01 BUDAC TYPE BINARY

01 ACCOUNT OCCURS BUDAC TIMES

02 ACCOUNT.NO PIC 9(6)
02 ACCOUNT.NAME PIC X(20)
02 BUDGET.AMOUNT PIC 9(11) V99
02 REAL.AMOUNT PIC 9(11) V99

RECORD NAME IS BUDGET.LEVEL.Z.H

LOCATION MODE CALC PROC-BUDLEV USING LEVEL.NO

DUPLICATES ARE ALLOWED

WITHIN HOLDING

01 LEVEL.NO PIC 9999

01 BUDAC TYPE BINARY

01 ACCOUNT OCCURS BUDAC TIMES

 02
 ACCOUNT.NO
 PIC 9(6)

 02
 ACCOUNT.NAME
 PIC X(20)

 02
 BUDGET.AMOUNT
 PIC 9(11) V99

 02
 REAL.AMOUNT
 PIC 9(11) V99

RECORD NAME IS LEDGER.ACCNT.H LOCATION MODE SYSTEM WITHIN HOLDING

01 ACCOUNT.NO PIC 999 TYPE IS DATA-BASE-KEY

01 ACCOUNT.NAME PIC X(20) 01 DRCR PIC A

01 REMAINDER PIC 9(11) V99

RECORD NAME IS SUBSDR.ACCNT.H LOCATION MODE CALC PROC-ACH USING ACCOUNT.NO DUPLICATES ARE NOT ALLOWED

WITHIN HOLDING

01 ACCOUNT.NO PIC 99 01 ACCOUNT.NAME PIC X(20) 01 DRCR PIC A

01 REMAINDER PIC 9(11) V99

RECORD NAME IS JOURNAL.ACCNT.H
LOCATION MODE CALC PROC-ACH USING ACCOUNT.NO
DUPLICATES ARE NOT ALLOWED
WITHIN HOLDING

01 ACCOUNT.NO PIC 999 01 ACCOUNT.NAME PIC X(20) 01 DRCR PIC A

01 REMAINDER PIC 9(11)V99

RECORD NAME IS MONTH.H.H
LOCATION MODE CALC PROC-ACH USING YEAR
DUPLICATES ARE NOT ALLOWED
WITHIN HOLDING

01 YEAR PIC 99 01 MONTH PIC 99

RECORD NAME IS JOURNAL.H
LOCATION MODE CALC PROC-ACH USING DATE
DUPLICATES ARE ALLOWED
WITHIN HOLDING

01 DATE PIC 9(6) 01 TRANSACT.NO PIC 9(6)

01 DRCR PIC A

01 AMOUNT PIC 9(11)V99 01 EXPLANATION PIC X(40)

RECORD NAME IS BANKS.H LOCATION MODE SYSTEM WITHIN HOLDING

01 BANK.CODE PIC 9(10) TYPE IS DATA-BASE-KEY

01 BANK.NAME PIC X(20) 01 BRANCH.NAME PIC X(20)

01 BANK.ACCNT.NO PIC 9(15)

01 BACC TYPE BINARY

01 ACCNT OCCURS BACC TIMES

ACCOUNT.TYPE PIC 9 (15) 0.2 02 REMAINDER PIC 9(11)V99

RECORD NAME IS CREDIT.H LOCATION MODE SYSTEM WITHIN HOLDING

0.1	CERTIFCT.NO	PIC 9(15)	TYPE	IS	DATA-BASE-KEY
01	RECEIV.DATE	PIC 9(6)			
01	CREDIT.TYPE	PIC X(8)			
0.4	TIND I AND A COLUMN	D = C = V ( 1 ( )			•

- EXPLANATION LIMIT.VALU VALIDITY PIC X(40) PIC 9(11)V99 01
- 01 01 PIC 9(6)
- CURRENCY. TYPE PIC X(5)01 REF.NO 01 PIC 9(15)
- DUR TYPE BINARY 01
- INTEREST OCCURS DUR TIMES 01
  - INTEREST.RATE 02 PIC 99 INTRST.RATE.DATE PIC 9(6) 02

RECORD NAME IS CREDIT.GET.H LOCATION MODE DIRECT DATE WITHIN HOLDING

PIC 9(6) TYPE IS DATA-BASE-KEY PIC 9(11) V99 01 DATE AMOUNT 01

01 EXPLANATION PIC X(40)

RECORD NAME IS CREDIT.PAY.H LOCATION MODE DIRECT DATE WITHIN HOLDING

PIC 9(6) TYPE IS DATA-BASE-KEY 0.1 DATE

01 AMOUNT PIC 9(11) V99 PIC X(40) 01 EXPLANATION

RECORD NAME IS PAYABLES.H LOCATION MODE DIRECT TYPE.PAYABLE WITHIN HOLDING

TYPE.PAYABLE TYPE IS DATA-BASE-KEY 01 PIC 9999 PIC X(10) PIC 9(11)V99 CREDITOR 01 01 AMOUNT PIC 9(6)

01 DATE.PLAN 01 DATE.DUE 01 DATE.REAL 01 REFERENCE PIC 9(6) PIC 9(6)

PIC X(15)

RECORD NAME IS RECEIVABLES.H LOCATION MODE DIRECT TYPE.RECEIV WITHIN HOLDING

```
TYPE.RECEIV
                               TYPE IS DATA-BASE-KEY
                     PIC 9999
   DEBTOR
                   - PIC X(10)
01
01 AMOUNT
                     PIC 9(11)V99
01 DATE.PLAN
                     PIC 9(6)
01
  DATE.DUE
                     PIC 9(6)
01 DATE.REAL
                     PIC 9(6)
                     PIC X(15)
01 REFERENCE
```

RECORD NAME IS BOND.DETAIL.H
LOCATION MODE CALC PROC-BDH USING ENDORESE.DATE, RECEIV.DATE
DUPLICATIONS ARE NOT ALLOWED
WITHIN HOLDING

	•		
01	RECEIV.DATE	PIC	9(6)
01	DEBITOR	PIC	X(10)
01	ENDORS.FROM	PIC	X(10)
01	ENDORS.TO	PIC	X(10)
01	ENDORSE.DATE	PIC	9(6)
01	ROLL.NO	PIC	X(12)
01	DEBIT PLACE	PIC	9(15)
01	ENDORSE.REF	PIC	9(15)
01	BANK.REF.NO	PIC	9(15)
01	USAGE.TYPE	PIC	X(2)

RECORD NAME IS CERTF.DEPOSIT.H LOCATION MODE SYSTEM WITHIN HOLDING

01	BANK.CODE	PIC	9(10)	TYPE	IS	DATA-BASE-KEY
01	VALUE	PIC	9 (11) V	99		
01	CURRENCY TYPE	PIC	X(5)			· · · · · · · · · · · · · · · · · · ·
01	VALIDITY	PIC	9 (6)			
01	BEGIN. DATE	PIC	9(6)			
01	CERTF.NO	PIC	9 (15)			
01	FIRM.GIVEN	PIC	X(20)			
·01	GIVE.DATE	PIC	9(6)			• •
01	BACK.DATE	PIC	9(6)			
01	INTEREST.RATE	PIC	9(2)			

```
RECORD NAME IS PERSONNEL.LIST.H
LOCATION MODE SYSTEM
WITHIN HOLDING
```

01	NAME ADDRESS BIRTH.DATE SEX ENTER.DATE INSURANCE.NO TAX.NO	PIC X(20) PIC X(20) PIC 9(6) PIC A PIC 9(6) PIC 9(9) PIC 9(9) PIC 9(2) PIC 9	·
01 01 01 01	the state of the s	PIC X(10) PIC X(10) PIC X(10) PIC X(10)	
	02 PROVINCE 02 TOWN 02 DISTRICT 02 QUARTER 02 HOUSE 02 BINDING 02 PAGE 02 CARD.NO		PIC X(10) PIC X(10) PIC X(10) PIC X(10) PIC X(5) PIC 9(6) PIC 9(6) PIC 9(9)

# RECORD NAME IS EDUCATION.H LOCATION MODE VIA PERSEDH SET WITHIN HOLDING

01	SCHOOL.NAME	PIC	X(10)
01	GRADTN.DATE	PIC	9(6)
	DIPLOME.NO	PIC	9(5)
01	FIELD	PIC	X(10)

## RECORD NAME IS REFERENCES.H LOCATION MODE VIA PERSREFH SET WITHIN HOLDING

01	NAME		PIC	X(20)
01	ADDRESS	,	PIC	X(20)
01	POSITION		PIC	X(10)

RECORD NAME IS EXPERIENCE.H LOCATION MODE VIA PERSEXH SET WITHIN HOLDING

01	COMPANY.NAME	PIC X(15)
01	COMPANY . ADDRESS	PIC X(20)
01	POSITION	PIC X(10)
01	LAST.SALARY	PIC 9(11)V99

RECORD NAME IS PREVIOUS.WORK.H LOCATION MODE VIA PERSPWH SET WTIHIN HOLDING

01	DEPT.CODE	PIC 99
01	BEGIN.DATE	PIC 9(6)
01	END.DATE	PIC 9(6)
01	POSITION	PIC X(10)
01	SALARY	PIC 9(11)V99
01	GRADES	PIC 9(5)

RECORD NAME IS FAMILY.INFO.H LOCATION MODE VIA PERSFIH SET WITHIN HOLDING

01	MARTIAL.STATUS	PIC	AA
01	SPOUSE.NAME	PIC	X(10)
01	SPOUSE.WORK	PIC	X(10)
0.1	CHID TYPE BINARY		, ,

OI CHLD TIPE BINARI

01 CHILD OCCURS CHLD TIMES

02	CHILD.NAME			PIC	X(10)
0.2	CH.BIRTH.DATE			PIC	9(6)
02	EDUCATION	, ·		PIC	99
02	MARTIAL.STAT.		٠.	PIC	99

RECORD NAME IS ACTUAL.WORK.H LOCATION MODE VIA PERSAWH SET WITHIN HOLDING

01	DEPT.CODE	PIC 99
01	ENTER.DATE	PIC 9(6)
01	POSITION	PIC X(10)
01	SALARY	PIC 9(11)V99
01	GRADE	PIC 9(5)
01	NEXT.LEAVE.DATE	PIC 9(6)
01	NEXT.LEAVE.DATE	PIC 9(6)
01	LVE TYPE BINARY	
01	LEAVE OCCURS LVE	TIMES

02	PAST.LEAVE.DATE	PIC 9(6)
02	PAST.RETRN.DATE	PIC 9(6)

## RECORD NAME IS PAYROLL.H LOCATION MODE VIA PERSPRH WITHIN HOLDING

```
01
    MONTH
                        PIC 99
01
    YEAR
                        PIC 99
01
    WORK.DAT.TOTAL
                        PIC 99
01
    ANNUAL.LEAVE.TIME PIC 999
    COMPLEG.TIME
01
                        PIC 999
01
    WEEKLY.LEAVE.TIME PIC 9(5)
01
                        PIC 9(5)
    OTHER. LEAVE. TIME
                        PIC 9(5)
01
    HOLIDAY OVERTIME
01
    NORMAL.OVERTIME
                        PIC 9(5)
01
    OVERTIME.PAYMENT
                        PIC 9(11)V99
01
    UNDERTIME. DECREASE PIC 9(11) V99
01
    PREMIUM
                        PIC 9(11)V99
                        PIC 9(11)V99
01
    BONUS
01
    CHLD. PAYMNT
                        PIC 9(11)V99
01
    SENIOR. INDEMN
                        PIC 9(11)V99
01
    EDUCATION.PAYM
                        PIC 9(11)V99
01
    COMBUST. PAYM
                        PIC 9(11)V99
01
    MILITARY.PAYM
                        PIC 9(11)V99
01
    TRAVEL. EXP
                        PIC 9(11)V99
01
    ENCOURAGE.PAYM
                        PIC 9(11)V99
01
    INCREASE.PREPAYM
                        PIC 9(11)V99
01
    PREPAYMENT
                        PIC 9(11)V99
    SPECIAL. DISCOUNT
01
                        PIC 9(11)V99
01
    GENERAL. DI SCOUNT
                        PIC 9(11)V99
01
    EMIGRANT.DISCOUNT PIC 9(11)V99
01
    INFIRM.DISCOUNT
                        PIC 9(11) V99
01
    CHILD.DISCOUNT
                        PIC 9(11)V99
    EDUCATION.DISCOUNT PIC 9(11) V99
01
01
    NO. INSURANCE. DAY
                        PIC 99
01
    TAX.CLASS
                        PIC 99
01
    GROSS.INSUR.AMOUNT PIC 9(11) V99
                        PIC 9(11)V99
01
    GROSS.TAX.AMOUNT
01
    INSURANCE. PREMIUM PIC 9(11) V99
01
                        PIC 9(11)V99
    INCOME.TAX
01
    DEDUCTION OCCURS 8 TI:ES
                                  PIC 9(11) V99
    02 DEDUC.TYPE
01
    ROUND.OFF.FACTOR
                        PIC 999
01
    NET.AMOUNT
                        PIC 9(11)V99
```

RECORD NAME IS DEPT.STATISTICS.H LOCATION MODE SYSTEM WITHIN HOLDING

01 DEPT.CODE PIC 99 TYPE IS DATA-BASE-KEY

01 DEPT.NAME PIC X(20)

01 NO.EMPLOYEE PIC 9(5)

01 NO.DIRECT.WORKER PIC 9(5) 01 NO.INDRCT.WORKER PIC 9(5)

01 EMPLOYEE.PAYMNTS PIC 9(11)V99

01 DIRECT.WORK.PAYMNT PIC 9(11)V99

01 INDRCT.WORK.PAYMNT PIC 9(11) V99

RECORD NAME IS EXEMPTION.H LOCATION MODE SYSTEM WITHIN HOLDING

01 EXEMPT. TYPE PIC 99 TYPE IS DATA-BASE-KEY

01 AMOUNT PIC 9(11) V99

01 INSUR.EXEMP.RATE PIC 999

01 TAX.EXEMP.RATE PIC 999

RECORD NAME IS TAX.RATE.H LOCATION MODE SYSTEM WITHIN HOLDING

01 UPPER.LIMIT PIC 9(11)V99 TYPE IS DATA-BASE-KEY

01 TAX.PERCENTAGE PIC 99

RECORD NAME IS FIXED.ASSETS.H LOCATION MODE SYSTEM WITHIN HOLDING

01 CODE PIC 9(9) TYPE IS DATA-BASE-KEY

01 NAME PIC X(20) 01 PURCHASE.DATE PIC 9(6)

01 INITIAL.PRICE PIC 9(11) V99

01 DEPR.RATE PIC 999

01 DEPT.USING PIC 99

RECORD NAME IS BS.TOTAL.C LOCATION MODE SYSTEM WITHIN CONSTRN.CENTER

01 DATE PIC 9(6) TYPE IS DATA-BASE-KEY

01 VALUE.TOTAL PIC 9(11)V99

RECORD NAME IS BS.FORMAT.C LOCATION MODE VIA BRBFC SET WITHIN CONSTRN.CENTER

01 LINE.NO PIC 99
01 ASST.LIABLTY PIC A
01 TITLE PIC X(35)
01 UNDERLINE PIC A
01 COLUMN.NO PIC 999

01 AMOUNT PIC 9(11) V99

RECORD NAME IS BS.ACCOUNT.C LOCATION MODE DIRECT LINE.NO WITHIN CONSTRN.CENTER

01 LINE PIC 99 TYPE IS DATA-BASE-KEY

01 TITLE PIC X(35) 01 COLUMN.NO PIC 999

01 AMOUNT PIC 9(11) V99

RECORD NAME IS PL.RESULT.C LOCATION MODE SYSTEM WITHIN CONSTRN.CENTER

01 DATE PIC 9(6) TYPE IS DATA-BASE-KEY

01 VALUE.TOTAL PIC 9(11)V99

RECORD NAME IS PL. FORMAT.C LOCATION MODE VIA PRPFC SET WITHIN CONSTRN.CENTER

01 LINE.NO PIC 99
01 ASST.LIABLTY PIC A
01 TITLE PIC X(35)
01 UNDERLINE PIC A
01 COLUMN.NO PIC 999

01 AMOUNT PIC 9(11) V99

RECORD NAME IS PL.ACCOUNT.C LOCATION MODE DIRECT LINE.NO WITHIN CONSTRN.CENTER

01 LINE.NO PIC 99 TYPE IS DATA-BASE-KEY

01 TITLE PIC X(35) 01 COLUMN.NO PIC 999

01 AMOUNT PIC 9(11) V99

RECORD NAME IS BUDGET.DATE.C LOCATION MODE SYSTEM WITHIN CONSTRN.CENTER

01 YEAR PIC 99 TYPE IS DATA-BASE-KEY

01 MONTH PIC 99

RECORD NAME IS BUDGET.TOTAL.C LOCATION MODE DIRECT ACCOUNT.NO WITHIN CONSTRN.CENTER

01 ACCOUNT.NO PIC 9(6) TYPE IS DATA-BASE-KEY

01 ACCOUNT. NAME PIC X(20)

01 BUDGET.AMOUNT PIC 9(11) V99

01 REAL.AMOUNT PIC 9(11) V99

RECORD NAME IS BUDGET.LEVEL.I.C LOCATION MODE CALC PROC-BUDLEV USING LEVEL.NO DUPLICATES ARE ALLOWED WITHIN CONSTRN.CENTER

01 LEVEL.NO PIC 9999

01 BUDAC TYPE BINARY

01 ACCOUNT OCCURS BUDAC TIMES

02 ACCOUNT.NO PIC 9(6)
02 ACCOUNT.NAME PIC X(20)
02 BUDGET.AMOUNT PIC 9(11) V99
02 REAL.AMOUNT PIC 9(11) V99

RECORD NAME IS BUDGET.LEVEL.Z.C LOCATION MODE CALC PROC-BUDLEV USING LEVEL.NO DUPLICATES ARE ALLOWED WITHIN CONSTRN.CENTER

01 LEVEL.NO 'PIC 9999

01 BUDAC TYPE BINARY

01 ACCOUNT OCCURS BUDAC TIMES

 02
 ACCOUNT.NO
 PIC 9(6)

 02
 ACCOUNT.NAME
 PIC X(20)

 02
 BUDGET.AMOUNT
 PIC 9(11) V99

 02
 REAL.AMOUNT
 PIC 9(11) V99

RECORD NAME IS LEDGER.ACCNT.C LOCATION MODE SYSTEM WITHIN CONSTRN.CENTER

01 ACCOUNT.NO PIC 999 TYPE IS DATA-BASE-KEY

01 ACCOUNT.NAME PIC X(20)

01 DRCR PIC A

01 REMAINDER PIC 9(11) V99

RECORD NAME IS SUBSDR.ACCNT.C
LOCATION MODE CALC PROC-ACC USING ACCOUNT.NO
DUPLICATES ARE NOT ALLOWED
WITHIN CONSTRN.CENTER

01 ACCOUNT.NO PIC 99 01 ACCOUNT.NAME PIC X(20) 01 DRCR PIC A

01 REMAINDER PIC 9(11) V99

RECORD NAME IS JOURNAL.ACCNT.C LOCATION MODE CALC PROC-ACC USING ACCOUNT.NO DUPLICATES ARE NOT ALLOWED WITHIN CONSTRN.CENTER

01 ACCOUNT.NO PIC 999 01 ACCOUNT.NAME PIC X(20) 01 DRCR PIC A

01 REMAINDER PIC 9(11)V99

RECORD NAME IS MONTH.H.C.
LOCATION MODE CALC PROC-ACC USING YEAR
DUPLICATES ARE NOT ALLOWED
WITHIN CONSTRN.CENTER

01 YEAR PIC 99 01 MONTH PIC 99

RECORD NAME IS JOURNAL.C LOCATION MODE CALC PROC-ACC USING DATE DUPLICATES ARE ALLOWED WITHIN CONSTRN.CENTER

01 DATE PIC 9(6)
01 TRANSACT.NO PIC 9(6)
01 DRCR PIC A

01 AMOUNT PIC 9(11) V99 01 EXPLANATION PIC X(40)

RECORD NAME IS BANKS.C LOCATION MODE SYSTEM WITHIN CONSTRN.CENTER

01 BANK. CODE PIC 9(10) TYPE IS DATA-BASE-KEY

01 BANK.NAME PIC X(20) 01 BRANCH.NAME PIC X(20)

01 BANK.ACCNT.NO PIC 9(15)

01 BACC TYPE BINARY

01 ACCNT OCCURS BACC TIMES

```
02
        ACCOUNT. TYPE
                                PIC 9(15)
    02
        REMAINDER
                                 PIC 9(11) V99
RECORD NAME IS CREDIT.C
LOCATION MODE SYSTEM
WITHIN CONSTRN.CENTER
    CERTIFCT.NO
                       PIC 9(15) TYPE IS DATA-BASE-KEY
01
    RECEIV.DATE
CREDIT.TYPE
EXPLANATION
01
                       PIC 9(6)
                       PIC X(8)
01
01
                      PIC X(40)
    LIMIT. VALUE VALIDITY
                      PIC 9(11)V99
01
                       PIC 9(6)
01
    CURRENCY.TYPE
01
                       PIC x(5)
    REF.NO
01
                       PIC 9(15)
01
    DUR TYPE BINARY
01
    INTEREST OCCURS DUR TIMES
        INTEREST.RATE
    02
                                 PIC 99
        INTRST.RATE.DATE
    02
                                 PIC 9(6)
RECORD NAME IS CREDIT.GET.C
LOCATION MODE DIRECT DATE
WITHIN CONSTRN.CENTER
                       PIC 9(6)
                                  TYPE IS DATA-BASE-KEY
01
    DATE
    AMOUNT
01
                       PIC 9(11) V99
                       PIC X(40)
01
    EXPLANATION
RECORD NAME IS CREDIT. PAY. C
LOCATION MODE DIRECT DATE
WITHIN CONSTRN.CENTER
                       PIC 9(6) TYPE IS DATA-BASE-KEY
01
    DATE
    AMOUNT
                       PIC 9(11) V99
0.1
                      PIC X(40)
    EXPLANATION
01
RECORD NAME IS PAYABLES.C
LOCATION MODE DIRECT TYPE.PAYABLE
WITHIN CONSTRN.CENTER
                     PIC 9999
PIC X(10)
    TYPE, PAYABLE
                                  TYPE IS DATA-BASE-KEY
01
01
    CREDITOR
                      PIC 9(11)V99
0.1
    AMOUNT
    DATE.PLAN
DATE.DUE
DATE.REAL
REFERENCE
                      PIC 9(6)
01
                      PIC 9(6)
01
                     PIC 9(6)
01
```

PIC X(15)

01

RECORD NAME IS RECEIVABLES.C LOCATION MODE DIRECT TYPE.RECEIV WITHIN CONSTRN.CENTER

```
01
    TYPE. RECEIV
                         PIC 9999 TYPE IS DATA-BASE-KEY
                         PIC X(10)
PIC 9(11) V99
01
    DEBITOR
01
    AMOUNT
    DATE.PLAN
DATE.DUE
DATE.REAL
01
                         PIC 9(6)
                         PIC 9(6)
01
                        PIC 9(6)
01
   REFERENCE
                        PIC X(15)
01
```

RECORD NAME IS BOND.DETAIL.C

LOCATION MODE CALC PROC-BDC USING ENDORSE.DATE, RECEIV.DATE
DUPLICATES ARE NOT ALLOWED

WITHIN CONSTRN.CENTER

01	RECEIV.DATE	PIC	9(6)
01	DEBITOR	PIC	X(10)
01	ENDORS.FROM	PIC	X(10)
01	ENDORS.TO	PIC	X(10)
01	ENDORSE.DATE	PIC	9(6)
01	ROLL.NO	PIC	9(15)
01	DEBIT.PLACE	PIC	X(12)
01	ENDORSE.REF	PIC	9 (15)
01	BANK.REF.NO	PIC	9(15)
01	USAGE.TYPE	PIC	X(2)

RECORD NAME IS CERTF.DEPOSIT.C LOCATION MODE SYSTEM WITHIN CONSTRN.CENTER

01	BANK, CODE	PIC	-9(10)	TYPE	IS DAT.	A-BASE-1	KEY
01	VALUE	PIC	9 (11) V9	9	, <del>-</del>		
01	CURRENCY.TYPE	PIC	X(5)				
01	VALIDITY	PIC	9(6)			_	
01	BEGIN.DATE	PIC	9(6)				
01	CERTF.NO	PIC	9(15)				
01	FIRM.GIVEN	PIC	X(20)				
01	GIVE.DATE	PIC	9(6)				
01	BACK.DATE	PIC	9(6)				
01	INTEREST.RATE	PIC	9(2)				

```
RECORD NAME IS PERSONNEL.LIST.C
LOCATION MODE SYSTEM
WITHIN CONSTRN.CENTER
```

```
01
    ID.NO
                                     TYPE IS DATA-BASE-KEY
                         PIC 9(8)
01
    NAME
                         PIC X(20)
                         PIC X(20)
01
    ADDRESS
                         PIC 9(6)
01
    BIRTH.PLACE
01
    SEX
                         PIC A
01
    ENTER. DATE
                         PIC 9(6)
01
    INSURANCE.NO
                         PIC 9(9)
                         PIC 9(9)
    TAX.NO
01
01
    NATIONALITY
                         PIC 9(2)
01
    INFIRM. CLASS
                         PIC 9
01 FL TYPE BINARY
    FOR.LANG OCCURS FL TIMES
01
    02
         FOREIGN. LANG
                                    PIC X(10)
                         PIC X(10)
PIC X(10)
01
    FATHER. NAME
01
    MOTHER. NAME
01
    BIRTH.PLACE
                         PIC X(10)
0.1
    RELIGION
                         PIC X(10)
01
    ID. CARD
    02
         PROVINCE
                                    PIC X(10)
    02
         TOWN
                                    PIC X(10)
    02
         DISTRICT
                                    PIC X(10)
                                    PIC X(10)
    02
         QUARTER
    02
         HOUSE
                                    PIC X(6)
    02
         BINDING
                                    PIC 9(6)
                                    PIC 9(6)
    02
         PAGE
    02
         CARD. NO
                                    PIC 9(9)
```

## RECORD NAME IS EDUCATION.C LOCATION MODE VIA PERSEDC SET WITHIN CONSTRN.CENTER

01	SCHOOL.NAME	PIC	X(10)
01	GRADTN.DATE	PIC	9(6)
01	DIPLOME.NO	PIC	9(5)
01	FIELD	PIC	X(10)

### RECORD NAME IS REFERENCES.C LOCATION MODE VIA PERSREFC SET WITHIN CONSTRN.CENTER

01	NAME	PIC	X(20)
01	ADDRESS	PIC	X(20)
01	POSTTION	PIC	X(10)

RECORD NAME IS EXPERIENCE.C LOCATION MODE VIA PERSEXC SET WITHIN CONSTRN.CENTER

01 COMPANY.NAME PIC X(15) 01 COMPANY.ADDRESS PIC X(20) 01 POSITION PIC X(10) 01 LAST.SALARY PIC 9(11)V99

RECORD NAME IS PREVIOUS.WORK.C LOCATION MODE VIA PERSPWC SET WITHIN CONSTRN.CENTER

01	DEPT.CODE	PIC 99
01	BEGIN.DATE	PIC 9(6)
01	END.DATE	PIC 9(6)
01	POSITION	PIC X(10)
01	SALARY	PIC 9(11)V99
01	GRADES	PIC 9(5)

RECORD NAME IS FAMILY.INFO.C LOCATION MODE VIA PERSFIC SET WITHIN CONSTRN.CENTER

01	MARTIAL.STATUS	PIC	
01	SPOUSE.NAME	PIC	X(10)
01	SPOUSE.WORK		X(10)
01	CHLD TYPE BINARY		
0.1	CULTUD OCCUDE CULD	TT 3.67	

01 CHILD OCCURS CHLD TIMES

02	CHILD.NAME		PIC	X(10)
02	CH.BIRTH.DATE		PIC	9(6)
02	EDUCATION	**.	PIC	99
02	MARTIAL.STAT.	* * * * * * * * * * * * * * * * * * * *	PIC	99

RECORD NAME IS ACTUAL.WORK.C LOCATION MODE VIA PERSAWC SET WITHIN CONSTRN.CENTER

01	DEPT.CODE	PIC 99
01	ENTER.DATE	PIC 9(6)
01	POSITION	PIC X(10)
01	SALARY	PIC 9(11) V99
01	GRADE	PIC 9(5)
01	NEXT.LEAVE.DATE	PIC 9(6)
01	NEXT, LEAVE. DATE	PIC 9(6)
01	LVE TYPE BINARY	
01	LEAVE OCCURS LVE	TIMES

02 PAST.LEAVE.DATE PIC 9(6) 02 PAST.RETRN.DATE PIC 9(6)

```
RECORD NAME IS PAY.ROLL.C
LOCATION MODE VIA PERSPRC
WITHIN CONSTRN.CENTER
```

```
MONTH
01
                        PIC 99
01
    YEAR
                        PIC
                            99
01
    WORK.DAY.TOTAL
                        PIC 99
01
    ANNUAL.LEAVE.TIME PIC 999
01
    COMPELG. TIME
                        PIC
                            999
01
    WEEKLY.LEAVE.TIME PIC 9(5)
01
    OTHER. LEAVE. TIME
                        PIC 9(5)
01
    HOLIDAY. OVERTIME
                        PIC 9(5)
01
    NORMAL.OVERTIME
                        PIC 9(5)
01
    OVERTIME.PAYMENT
                        PIC 9(11)V99
01
    UNDERTIME. DECREASE PIC 9(11) V99
                        PIC 9(11) V99
01
    PREMIUM
01
    BONUS
                        PIC 9(11)V99
01
    CHLD.PAYMNT
                        PIC 9(11)V99
01
    SENIOR. INDEMN
                        PIC 9(11)V99
01
    EDUCATION. PAYM
                        PIC 9(11) V99
01
    COMBUST.PAYM
                        PIC 9(11) V99
                            9(11)V99
01
    MILITARY.PAYM
                        PIC
01
    TRAVEL.EXP
                        PIC 9(11)V99
01
                        PIC 9(11)V99
    ENCOURAGE . PAYM
01
    INCREASE.PREPAYM
                        PIC 9(11)V99
01
                        PIC 9(11)V99
    PREPAYMENT
01
    SPECIAL. DISCOUNT
                        PIC 9(11) V99
01
    GENERAL.DISCOUNT
                        PIC 9(11) V99
                        PIC 9(11) V99
01
    EMIGRANT.DISCOUNT
01
                        PIC 9(11)V99
    INFIRM. DISCOUNT
01
    CHILD. DISCOUNT
                        PIC 9(11) V99
    EDUCATION.DISCOUNT PIC 9 (11) V99
01
01
    NO.INSURANCE.DAY
                        PIC 99
01
    TAX.CLASS
                        PIC 99
    GROSS.INSUR.AMOUNT PIC 9(11) V99
01
01
    GROSS.TAX.AMOUNT
                        PIC 9(11) V99
    INSURANCE. PREMIUM PIC 9(11) V99
01
01
                        PIC 9(11) V99
    INCOME.TAX
01
    DEDUCTION OCCURS 8 TIMES
                                   PIC 9(11) V99
    02
         DEDUC.TYPE
01
    ROUND. OFF. FACTOR
                        PIC 999
01
    NET.AMOUNT
                        PIC 9(11) V99
```

RECORD NAME IS DEPT.STATISTICS.C LOCATION MODE SYSTEM WITHIN CONSTRN.CENTER

01 DEPT.CODE PIC 99 TYPE IS DATA-BASE-KEY

01 DEPT.NAME PIC X(20)

01 NO.EMPLOYEE PIC 9(5) 01 NO.DIRECT.WORKER PIC 9(5)

01 NO.INDRCT.WORKER PIC 9(5)

01 EMPLOYEE.PAYMENTS PIC 9(11) V99

01 DIRECT.WORK.PAYMNT PIC 9(11) V99

01 INDRCT.WORK.PAYMNT PIC 9(11) V99

RECORD NAME IS EXEMPTION.C LOCATION MODE SYSTEM WITHIN CONSTRN.CENTER

01 EXEMPT.TYPE PIC 99 TYPE IS DATA-BASE-KEY

01 AMOUNT PIC 9(11) V99

01 INSUR.EXEMP.RATE PIC 999

01 TAX.EXEMP.RATE PIC 999

RECORD NAME IS TAX.RATE.C LOCATION MODE SYSTEM WITHIN CONSTRN.CENTER

01 UPPER.LIMIT PIC 9(11) V99 TYPE IS DATA-BASE-KEY

01 TAX.PERCENTAGE PIC 99

RECORD NAME IS FIXED.ASSETS.C LOCATION MODE SYSTEM WITHIN CONSTRN.CENTER

01 CODE PIC 9(9) TYPE IS DATA-BASE-KEY

01 NAME PIC X(20) 01 PURCHASE.DATE PIC 9(6)

01 INITIAL.PRICE PIC 9(11) V99

01 DEPR.RATE PIC 999 01 DEPT.USING PIC 99

RECORD NAME IS WAREHOUSE.CR LOCATION MODE SYSTEM WITHIN CONSTRN.REGION.I

01 WAREHOUSE.NO PIC 99 TYPE IS DATA-BASE-KEY

01 WAREHOUSE.NAME PIC X(15)

RECORD NAME IS PART.ID.CR LOCATION MODE SYSTEM WITHIN CONSTRN. REGION. I

01 PART.CODE 01 PART.NAME PIC 9(9) TYPE IS DATA-BASE-KEY

PIC X(25)

01 PART.UNIT PIC X(2)

RECORD NAME IS REMAINDER.CR LOCATION MODE VIA PRCR SET WITHIN CONSTRN.REGION.I

01	QUANTITY	PIC	9(7)V999
01	TOTAL.PRICE		9 (11) V99
01	MIN.STOCK.LEV		9(7)V999
01	MAX.STOCK.LEV		9(7)V999
01	R.O.Q.		9 (7) V999
01	R.O.P.		9 (7) V999

RECORD NAME IS R.B.CR LOCATION MODE VIA SRBCR SET WITHIN CONSTRN.REGION.I

PRICE PIC 9(11) V99 QUOTA PIC 9(7) V999 01 01

RECORD NAME IS SUPPLIER.CR LOCATION MODE SYSTEM WITHIN CONSTRN. REGION. I

PIC 9(6) PIC X(20) 01 SUPPLIER.CODE TYPE IS DATA-BASE-KEY

SUPPLIER.NAME 01

01 SUPPLIER.ADDRESS PIC X(20)

PRODUCTION. CAPACITY PIC 9 (7) V999 01

01 INFORMATION PIC X(40)

RECORD NAME IS MONTH.A.CR LOCATION MODE CALC PROC-MACR USING YEAR, MONTH DUPLICATES ARE NOT ALLOWED WITHIN CONSTRN. REGION. I

01 MONTH PIC 99 PIC 99 01 YEAR

RECORD NAME IS ORDER.PLAN.CR LOCATION MODE CALC PROC-OP

USING DEMAND.NO, SUPPLIER.CODE DUPLICATES ARE NOT ALLOWED

WITHIN CONSTRN. REGION. I

01 QUANTITY.PLAN PIC 9(7) V999

01 DEMAND.NO PIC 9(5)

01 QUANTITY.ORDER PIC 9(7) V999

01 TOTAL.PRICE.REAL PIC 9(11) V99

01 TOTAL.PRICE.PLAN PIC 9(11) V99

01 SUPPLIER.CODE PIC 9(6)

RECORD NAME IS ORDER.REAL.CR
LOCATION MODE CALC PROC-OR USING DATE, SUPPLIER.CODE
DUPLICATES ARE NOT ALLOWED
WITHIN CONSTRN.REGION.I

01 DATE PIC 9(6) 01 INVOICE.NO. PIC 9(8)

01 TOTAL.PRICE PIC 9(11) V99

01 SUPPLIER.CODE PIC 9(6)

RECORD NAME IS SUPPLY.CR LOCATION MODE CALC PROC-SUPPLY USING WORKSITE.CODE DUPLICATES ARE ALLOWED

WITHIN CONSTRN. REGION. I

01 WORKSITE.CODE PIC 9(5)

01 QUANTITY.PLAN PIC 9(7) V999

01 SHIP.DATE.PLAN PIC 9(6)

01 QUANTITY.REAL PIC 9(7)V999

01 SHIP.DATE.REAL PIC 9(6)

01 TOTAL.PRICE PIC 9(11)V99

RECORD NAME IS PRODUCTION.DATA.CR LOCATION MODE SYSTEM WITHIN CONSTRN.REGION.I

01 PROCESS.CODE PIC 9(6) TYPE IS DATA-BASE-KEY

01 PROCESS.NAME PIC X(20)

01 UNIT PIC AÀ

RECORD NAME IS MATERIAL.DATA.CR LOCATION MODE VIA PDMATCR SET WITHIN CONSTRN.REGION.I

01 MATERIAL.CODE PIC 9(9)

01 QUANT.PER.UNIT.PROD PIC 9(7) V999

01 UNIT. PRICE PIC 9 (11) V99

RECORD NAME IS MANPOWER.DATA.CR LOCATION MODE VIA PDMANCR SET WITHIN CONSTRN. REGION. I

01 MANPOWER.TYPE PIC 9(4)
01 MAN.TIME PIC 9(6)
01 UNIT.PRICE PIC 9(11)V99

RECORD NAME IS MACHINE.DATA.CR LOCATION MODE VIA PDMACHCR SET WITHIN CONSTRN. REGION. I

01 MACHINE.CODE PIC 9(5) 01 TIME.PER.PROD PIC 9(6) 01 UNIT.PRICE PIC 9(11)V99

RECORD NAME IS REGION LOCATION MODE SYSTEM WITHIN CONSTRN.REGION.I

PIC 99 TYPE IS DATA-BASE-KEY PIC X(15) 01 REGION.CODE

01 REGION.NAME

RECORD NAME IS PROJECT LOCATION MODE VIA RP SET WITHIN CONSTRN. REGION. I

PROJECT.CODE PIC 999 0.1 01 PROJECT.NAME PIC X(15)

RECORD NAME IS WORKSITE LOCATION MODE VIA PW SET WITHIN CONSTRN.REGION.I

01 WORKSITE.CODE PIC 99 01 WORKSITE.NAME PIC X(15)

RECORD NAME IS UNIT LOCATION MODE VIA WU SET WITHIN CONSTRN. REGION. I

PIC 99 UNIT.CODE 0.1 PIC X(15) 01 UNIT.NAME

RECORD NAME IS DETAIL LOCATION MODE VIA UD SET WITHIN CONSTRN. REGION. I

DETAIL.CODE 01 PIC 99 01 DETAIL.NAME PIC X(15)

RECORD NAME IS WORK LOCATION MODE VIA DW SET WITHIN CONSTRN.REGION.I

01	WORK.CODE	PIC 9(6)
01	WORK.NAME	PIC X(20)
01	UNIT	PIC AA
01	TOTAL OUANTITY	PTC 9(7)V99

- PIC 9(7) V999 PIC 9(11) V99 01 MONEY.RETURN
- 01 PLAN.BEGIN.DATE PIC 9(6) 01 PLAN.END.DATE PIC 9(6)
- 01 A TYPE BINARY

01 REALIZATION.DATE OCCURS A TIMES

02	BEGIN	PI	C 9(6)
02	END	PI	C 9(6)
02	QUANTITY	PI	C 9(7) V999
0.2	MONEY THEN		C 0 (11) VOO

RECORD NAME IS MATERIAL.USAGE LOCATION MODE VIA UMATU SET WITHIN CONSTRN. REGION. I

01 MATERIAL.CODE PIC 9(9) 01 QUANTITY.PLAN PIC 9(7) V999 01 QUANTITY.USED PIC 9(11)V99

RECORD NAME IS MANPOWER. USAGE LOCATION MODE VIA WMANU SET WITHIN CONSTRN. REGION. I

01	MANPOWER.TYPE	PIC 9(4)
.01	MAN.TIME.PLAN	PIC 9(6)
01	MAN.TIME.USED	PIC 9(6)
01	PLAN.DATE	PIC 9(6)
		• •

01 A TYPE BINARY

REALIZATION OCCURS A TIMES 01

02	DATE	×	PIC	9(6)
02	WORKER.NO		PIC	9 (5)

RECORD NAME IS MACHINE.USAGE LOCATION MODE VIA WMACU SET WITHIN CONSTRN.REGION.I

01	MACHINE.CODE	PIC	9(5)
01	TOTAL.TIME.PLAN	PIC	9(6)
01	TOTAL.TIME.USED	PIC	9(6)
01	PLAN.DATE	PIC	9(6)
01	REAL.DATE	PIC	9(6)

RECORD NAME IS MONTH.B LOCATION MODE SYSTEM WITHIN CONSTRN.REGION.I

01 YEAR PIC 99 TYPE IS DATA-BASE-KEY 01 MONTH PIC 99

RECORD NAME IS IMPORT.LICENCE.CR LOCATION MODE SYSTEM WITHIN CONSTRN.REGION.I

FILE.NO PIC 9(10) TYPE IS DATA-BASE-KEY 01 PIC 9(6) 01 CERTIF.DATE PIC 9(15) 01 CERTIF.NO 01 IMPORT.TYPE PIC 9(7) PIC X(5)01 CURRENCY. TYPE 01 MONETRY. VALUE PIC 9(11) V99 PIC 99 01 DEPOSIT.PERCENT PIC 9(11)V99 01 DEPOSIT. VALUE 01 DEPOSIT.DATE PIC 9(6) PIC X(10)DEPOSIT.BANK 01 01 LICENCE. DATE PIC 9(6) 01 LICENCE.NO PIC 9(15) 01 VALIDITY PIC 9(6) BEGIN, DATE PIC 9(6) 01 PIC 9(6) 01 EXTRA.PERIOD 01 IMPORT.BANK.REF PIC 9(15) 01 IMPORT.BANK.CODE PIC 9(10)

RECORD NAME IS LICENCE.DETAIL.CR LOCATION MODE DIRECT MATL.CODE WITHIN CONSTRN.REGION.I

01	MATL.CODE	PIC	9(9)	TYPE	IS	DATA-BASE-KEY
01	MATL.NAME	PIC	X(25)			
01	QUOTA.QUAN	PIC	9(7) V999	,		•
01	QUOTA.VALUE	PIC	9(11)V99	)		

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RECORD NAME IS IMPORT.PREP.CR
LOCATION MODE VIA LDIPCR SET
WITHIN CONSTRN.REGION.I
```

# 01 PROFORM.INVOICE

	02 02	NO DATE FIRM.CODE QUANTITY VALUE		PIC PIC PIC	9(8) 9(6) 9(6) 9(7) V999
01 01	COR	RESPND.BANK ERMDT.BANK	X(10) X(10)	PIC	9 (11) V99

### 01 LETTER. CREDIT

02	OPEN.DATE		PIC	9(6)
02	VALIDITY		PIC	9(6)
03	AMOUNT		PIC	9(11)V99
COII	AID DA	DTG V(10)		

01	COUNTRY	PIC	X(10)
01	EXPLANATION	PIC	X(40)
01	TARIF.NO		9(15)
01	TAX.PERCENT	PIC	99

## RECORD NAME IS IMPORT.REAL.CR LOCATION MODE VIA LDIRCR SET WITHIN CONSTRN.REGION.I

01	IMPORT.DATE	PIC	9(6)
01	EXCHANGE.RATE	PIC	9 (5)
01	CUSTM.ARRIV.DATE	PIC	9(6)
01	TRANSP.TYPE	PIC	X(10)
01	TRANSP.FIRM	PIC	X(10)
01	INSURANCE.COST	PIC	9(11)V99
01	FREIGHT.COST	PIC	9 (11) V99
01	QUANTITY	PIC	9(7)V999
01	TOTAL.PRICE	PIC	9(11)V99
^ 4			

### 01 TRANSFER

02	DATE	PIC	9(6)
02	NO	PIC	9(15)
02	EXCHANGE.RATE	PIC	9 (5)

## 01 INSURANCE.POLICY

02	FIRM	. ·	PIC	X(10)
02	DATE		PIC	9(6)
02	NO .		PIC	9(15)

#### 01 REGISTRATION

02	DATE	PIC	9(6)
02	NO	PIC	9(15)
02	EXCHANGE.RATE	PIC	9(5)

### 01 CUSTOM. TAX

02 PAYM.DATE PIC 9(6) 02 PAYM.NO PIC 9(15) 02 AMOUNT PIC 9(11) V99

01 EXPLANATION PIC X(40) 01 INVOICE.NO PIC 9(8)

RECORD NAME CERTF.DEPOSIT.CR LOCATION MODE SYSTEM WITHIN CONSTRN.REGION.I

01	BANK.CODE	PIC	9(10)	TYPE	IS	DATA-BASE-KEY
01	VALUE	PIC	9(11)V9	99		
01	CURRENCY.TYPE	PIC	X(5)			
01	VALIDITY	PIC	9(6)	•		
01	BEGIN.DATE	PIC	9(6)			
01	CERTF.NO	PIC	9(15)			
01	FIRM.GIVEN	PIC	X(20)			•
01	GIVE.DATE	PIC	9(6)			
01	BACK.DATE	PIC	9(6)			
01	INTEREST.RATE	PIC	9(2)			

RECORD NAME IS BS.TOTAL.CR LOCATION MODE SYSTEM WITHIN CONSTRN.REGION.I

01 DATE PIC 9(6) TYPE IS DATA-BASE-KEY PIC 9(11) V99

RECORD NAME IS BS.FORMAT.CR LOCATION MODE VIA BTBFCR SET WITHIN CONSTRN.REGION.I

01	LINE.NO	PIC	99
01	ASST.LIABLTY	PIC	Α
01	TITLE	PIC	X(35)
01	UNDERLINE	PIC	Α
·01	COLUMN.NO	PIC	999
01	AMOUNT	PIC	9(11)V99

RECORD NAME IS BS.ACCOUNT.CR LOCATION MODE DIRECT LINE.NO WITHIN CONSTRN.REGION.I

01 LINE PIC 99 TYPE IS DATA-BASE-KEY

01 TITLE PIC X(35) 01 COLUMN.NO PIC 999

01 AMOUNT PIC 9(11) V99

RECORD NAME IS PL.RESULT.CR LOCATION MODE SYSTEM WITHIN CONSTRN. REGION. I

01 DATE PIC 9(6) TYPE IS DATA-BASE-KEY

01 VALUE.TOTAL PIC 9(11) V99

RECORD NAME IS PL. FORMAT.CR LOCATION MODE VIA PRPFCR SET WITHIN CONSTRN. REGION. I

01 LINE.NO PIC 99 01 ASST.LIABLTY PIC A

PIC X(35) 01 TITLE

01 UNDERLINE PIC A PIC 999 01 COLUMN.NO

PIC 9(11) V99 01 AMOUNT

RECORD NAME IS PL.ACCOUNT.CR LOCATION MODE DIRECT LINE.NO WITHIN CONSTRN.REGION.I

LINE.NO PIC 99 TYPE IS DATA-BASE-KEY 01

PIC X(35) 01 TITLE 01 COLUMN.NO PIC 999

01 AMOUNT PIC 9(11) V99

RECORD NAME IS BUDGET.DATE.CR LOCATION MODE SYSTEM WITHIN CONSTRN. REGION. I

01 YEAR PIC 99 TYPE IS DATA-BASE-KEY

01 MONTH PIC 99

RECORD NAME IS BUDGET.TOTAL.CR LOCATION MODE DIRECT ACCOUNT.NO WITHIN CONSTRN. REGION. I

TYPE IS DATA-BASE-KEY ACCOUNT.NO PIC 9(6) 01

01 ACCOUNT.NAME PIC X(20)BUDGET . AMOUNT PIC 9(11) V99 01 01 REAL.AMOUNT PIC 9(11) V99 RECORD NAME IS BUDGET.LEVEL.I.CR
LOCATION MODE CALC PROC-BUDLEV USING LEVEL.NO
DUPLICATES ARE ALLOWED
WITHIN CONSTRN.REGION.I

01 LEVEL.NO PIC 9999

01 BUDAC TYPE BINARY

01 ACCOUNT OCCURS BUDAC TIMES

02	ACCOUNT.NO	PIC 9(6)
02	ACCOUNT.NAME	PIC X(20)
02	BUDGET . AMOUNT	PIC 9(11)V99
02	REAL.AMOUNT	PIC 9(11)V99

RECORD NAME IS BUDGET.LEVEL.Z.CR
LOCATION MODE CALC PROC-BUDLEV USING LEVEL.NO
SUPLICATES ARE ALLOWED
WITHIN CONSTRN.REGION.I

01 LEVEL.NO PIC 9999

01 BUDAC TYPE BINARY

01 ACCOUNT OCCURS BUDAC TIMES

02	ACCOUNT.NO	PIC	9(6)
02	ACCOUNT.NAME	PIC	X(20)
02	BUDGET.AMOUNT	PIC	9(11)V99
02	REAL.AMOUNT	PIC	9(11)V99

RECORD NAME IS CREDIT.CR LOCATION MODE SYSTEM WITHIN CONSTRN.REGION.I

02

01	CERTIFCT.NO	PIC	9(15)	TYPE	IS	DATA-BASE-KEY
01	RECEIV. DATE		9(6)			
01	CREDIT. TYPE	PIC	X(8)			<i>*</i>
01	EXPLANATION	PIC	X(40)			
01	LIMIT.VALUE	PIC	9(11)V	99		
01	VALIDITY	PIC	9(6)			,
01	CURRENCY. TYPE	PIC	X(5)	•		
01	REF.NO	PIC	9(15)			
.01	DUR TYPE BINARY					•
01	INTEREST OCCURS	DUR T	IMES			
	02 INTEREST RAT	'E		PIC 99		

PIC 9(6)

RECORD NAME IS CREDIT.GET.CR LOCATION MODE DIRECT DATE

INTRST.RATE.DATE

01 DATE PIC 9(6) TYPE IS DATA-BASE-KEY PIC 9(11) V99

01 EXPLANATION PIC X(40)

WITHIN CONSTRN. REGION. I

RECORD NAME IS CREDIT.PAY.CR LOCATION MODE DIRECT DATE WITHIN CONSTRN.REGION.I

01 DATE PIC 9(6) TYPE IS DATA-BASE-KEY

01 AMOUNT PIC 9(11) V99 01 EXPLANATION PIC X(40)

RECORD NAME IS PAYABLES.CR LOCATION MODE DIRECT TYPE.PAYABLE WITHIN CONSTRN.REGION.I

TYPE.PAYABLE TYPE IS DATA-BASE-KEY 01 PIC 9999 PIC X(10) 01 CREDITOR 01 AMOUNT PIC 9(11) V99 01 DATE.PLAN PIC 9(6) PIC 9(6) DATE.DUE 01 01 DATE.REAL PIC 9(6) RE FE RENCE PIC X(15) 01

RECORD NAME IS RECEIVABLES.CR LOCATION MODE DIRECT TYPE.RECEIV WITHIN CONSTRN.REGION.I

01	TYPE.RECEIV	PIC	9999	TYPE	IS	DATA-BASE-KEY
01	DEBITOR	PIC	X(10)			•
01	AMOUNT	PIC	9 (11) V9	9		
01	DATE.PLAN	PIC	9(6)			•
01	DATE.DUE	PIC	9(6)			
01	DATE.REAL	PIC	9(6)			
01	REFERENCE	PIC	X(15)	* •		

RECORD NAME IS BOND.DETAIL.CR LOCATION MODE CALC PROC-BDCR USING ENDORSE.DATE, RECEIV.DATE DUPLICATES ARE NOT ALLOWED WITHIN CONSTRN.REGION.I

01	RECEIV.DATE	PIC	9(6)
01	DEBITOR	PIC	X(10)
01	ENDORS.FROM	PIC	X(10)
01	ENDORS.TO	PIC	X(10)
01	ENDORSE, DATE	PIC	9(6)
01	ROLL.NO	PIC	9(15)
01	DEBIT.PLACE	PIC	X(12)
01	ENDORSE.REF	PIC	9(15)
01	BANK.REF.NO	PIC	9(15)
01	USAGE.TYPE	PIC	X(2)

RECORD NAME IS LEDGER.ACCNT.CR LOCATION MODE SYSTEM WITHIN CONSTRN.REGION.I

01 ACCOUNT.NO PIC 999 TYPE IS DATA-BASE-KEY

01 ACCOUNT.NAME PIC X(20)

01 DRCR PIC A

01 REMAINDER PIC 9(11) V99

RECORD NAME IS SUBSDR.ACCNT.CR
LOCATION MODE CALC PROC-ACH USING ACCOUNT.NO
DUPLICATES ARE NOT ALLOWED
WITHIN CONSTRN.REGION.I

01 ACCOUNT.NO PIC 99 01 ACCOUNT.NAME PIC X(20) 01 DRCR PIC A

01 REMAINDER PIC 9(11) V99

RECORD NAME IS JORNAL.ACCNT.CR
LOCATION MODE CALC PROC-ACH USING ACCOUNT.NO
DUPLICATES ARE NOT ALLOWED
WITHIN CONSTRN.REGION.I

01 ACCOUNT.NO PIC 999 01 ACCOUNT.NAME PIC X(20) 01 DRCR PIC A

01 REMAINDER PIC 9(11)V99

RECORD NAME IS MONTH.CR
LOCATION MODE CALC PROC-ACH USING YEAR
DUPLICATES ARE NOT ALLOWED
WITHIN CONSTRN.REGION.I

01 YEAR PIC 99 01 MONTH PIC 99

RECORD NAME IS JOURNAL.CR LOCATION MODE CALC PROC-ACH USING DATE DUPLICATES ARE ALLOWED WITHIN CONSTRN.REGION.I

01 DATE PIC 9(6) 01 TRANSACT.NO PIC 9(6) 01 DRCR PIC A

01 AMOUNT PIC 9(11) V99 01 EXPLANATION PIC X(40)

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RECORD NAME IS BANKS.CR
LOCATION MODE SYSTEM
WITHIN CONSTRN.REGION.I
   BANK.CODE
BANK.NAME
01
                      PIC 9(10) TYPE IS DATA-BASE-KEY
01
                      PIC X(20)
                      PIC X(20)
   BRANCH.NAME
01
01
   BANK.ACCNT.NO
                      PIC 9(15)
01
   BACC TYPE BINARY
0.1
   ACCNT OCCURS BACC TIMES
    0.2
        ACCOUNT TYPE
                                PIC 9(15)
    0.2
        REMAINDER
                                PIC 9 (11) V99
RECORD NAME IS ENGRAVE
LOCATION MODE DIRECT REPORT, NO
WITHIN CONSTRN. REGION. I
01
    REPORT.NO
                      PIC 9(5) TYPE IS DATA-BASE-KEY
    REPORT. DATE
                      PIC 9(6)
01
01 ENGRAV. AMOUNT
                      PIC 9(11) V99
01
    PREPARATION. PAYMENTS
    02
                                PIC 9(11) V99
        MACHINE
        MATERIAL
                                PIC 9(11) V99
    02
                                PIC 9(11) V99
    02
        OTHER
01
    RECENT.MONTH.REMAIN PIC 9(11) V99
    TOTAL AMOUNT PIC 9(11) V99
01
01
    COLLECT. DATE
                     PIC 9(6)
    COLLECT.AMOUNT PIC 9(11) V99
01
01
    PREPAYMN. REMAIN PIC 9(11) V99
RECORD NAME IS PERSONNEL.LIST.CR
LOCATION MODE SYSTEM
WITHIN CONSTRN. REGION. I
                                 TYPE IS DATA-BASE-KEY
                      PIC 9(8)
01
    ID.NO
   NAME
                      PIC X(20)
01
   ADDRESS
01
                      PIC X(20)
                      PIC 9(6)
01
   BIRTH.DATE
01
    SEX
                      PIC A
    ENTER.DATE
                      PIC 9(6)
01
                      PIC 9(9)
    INSURANCE.NO
01
01
    TAX.NO
                      PIC 9(9)
    NATIONALITY
                      PIC 9(2)
01
    INFIRM. CLASS
                      PIC 9
01
    FL TYPE BINARY
01
```

PIC X(10)

FOR.LANG OCCURS FL TIMES

FOREIGN. LANG

01

02

01 01 01 01 01	MOT: BIR REL	HER.NAME HER.NAME TH.PLACE IGION CARD	PIC	X(10) X(10) X(10) X(10)		
	02 02 02 02 02 02 02 02	PROVINCE TOWN DISTRICT QUARTER HOUSE BINDING PAGE CARD.NO			PIC PIC PIC PIC	X(10) X(10) X(10) X(10) X(6) 9(6) 9(6) 9(9)

RECORD NAME IS EDUCATION.CR LOCATION MODE VIA PERSEDCR SET WITHIN CONSTRN.REGION.I

01	SCHOOL.NAME	PIC	X(10)
01	GRADTN.DATE	PIC	9(6)
01	DIPLOME.NO	PIC	9(5)
01	FIELD	PIC	X(10)

RECORD NAME IS REFERENCES.CR LOCATION MODE VIA PERSREFCR SET WITHIN CONSTRN.REGION.I

01	NAME	PIC	X(20)
01	ADDRESS	PIC	X(20)
0.1	POSTTION	PTC	X(10)

RECORD NAME IS EXPERIENCE.CR LOCATION MODE VIA PERSEXCR SET WITHIN CONSTRN.REGION.I

01	COMPANY.NAME	PIC X(15)
01	COMPANY.ADDRESS	PIC X(20)
01	POSITION	PIC X(10)
.01	LAST, SALARY	PIC 9(11) V99

RECORD NAME IS PREVIOUS.WORK.CR LOCATION MODE VIA PERSPWCR SET WITHIN CONSTRN.REGION.I

01	DEPT.CODE	PIC 99
01	BEGIN.DATE	PIC 9(6)
01	END.DATE	PIC 9(6)
01	POSITION	PIC X(10)
01	SALARY	PIC 9(11)V99
01	GRADES	PIC 9(5)

RECORD NAME IS FAMILY.INFO.CR LOCATION MODE VIA PERSFICR SET WITHIN CONSTRN.REGION.I

- 01 MARITAL.STATUS PIC AA 01 SPOUSE.NAME PIC X(10)
- 01 SPOUSE.WORK PIC X(10)
- 01 CHLD TYPE BINARY
- 01 CHILD OCCURS CHLD TIMES

02	CHILD.NAME	PIC X(10)
02	CH.BIRTH.DATE	PIC 9(6)
02	EDUCATION	PIC 99
02	MARITAL.STAT.	PIC 99

RECORD NAME IS ACTUAL.WORK.CR LOCATION MODE VIA PERSAWCR SET WITHIN CONSTRN.REGION.I

- 01 DEPT.CODE PIC 99 01 ENTER.DATE PIC 9(6)
- 01 POSITION PIC X(10) 01 SALARY PIC 9(11) V99
- 01 GRADE PIC 9(5)
- 01 NEXT.LEAVE.DATE PIC 9(6)
- 01 NEXT.LEAVE.DATE PIC 9(6)
- 01 LVE TYPE BINARY
- 01 LEAVE OCCURS LVE TIMES
  - 02 PAST.LEAVE.DATE PIC 9(6) 02 PAST.RETRN.DATE PIC 9(6)

RECORD NAME IS PAY.ROLL.CR LOCATION MODE VIA PERSPRCR SET WITHIN CONSTRN.REGION.I

01	MONTH	PIC	99
Λ1	VEAD	DIC	0.0

- 01 YEAR PIC 99 01 WORK.DAY.TOTAL PIC 99
- 01 ANNUAL.LEAVE.TIME PIC 999
- 01 COMPELG.TIME PIC 999
- 01 WEEKLY.LEAVE.TIME PIC 9(5)
- 01 OTHER.LEAVE.TIME PIC 9(5)
- 01 HOLIDAY.OVERTIME PIC 9(5) 01 NORMAL.OVERTIME PIC 9(5)
- 01 OVERTIME PAYMENT PIC 9(11) V99
- 01 UNDERTIME. DECREASE PIC 9(11) V99
- 01 PREMIUM PIC 9(11) V99
- 01 BONUS PIC 9(11)V99
- 01 CHLD.PAYMNT PIC 9(11)V99 01 SENIOR.INDEMN PIC 9(11)V99

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01
    EDUCATION.PAYM
                       PIC 9(11) V99
01
    COMBUST. PAYM
                       PIC 9(11) V99
01
    MILITARY.PAYM
                       PIC 9(11)V99
01
    TRAVEL.EXP
                       PIC 9(11) V99
01
    ENCOURAGE.PAYM
                       PIC 9(11)V99
                       PIC 9(11) V99
01
    INCREASE PREPAYM
01
    PREPAYMENT
                       PIC 9(11) V99
01
    SPECIAL. DISCOUNT
                       PIC 9(11) V99
01
    GENERAL.DISCOUNT
                       PIC 9(11) V99
    EMIGRANT.DISCOUNT PIC 9(11) V99
01
01
    INFIRM. DISCOUNT
                       PIC 9(11) V99
01
    CHILD. DISCOUNT
                       PIC 9(11) V99
01
    EDUCATION.DISCOUNT PIC 9(11) V99
01
    NO. INSURANCE. DAY
                       PIC 99
01
    TAX.CLASS
                       PIC 99
01
    GROSS.INSUR.AMOUNT PIC 9(11) V99
01
    GROSS.TAX.AMOUNT
                       PIC 9(11) V99
    INSURANCE. PREMIUM PIC 9(11) V99
01
                       PIC 9(11) V99
01
    INCOME.TAX
01
    DEDUCTION OCCURS 8 TIMES
    02
        DEDUC.TYPE
                                  PIC 9(11) V99
01
    ROUND.OFF.FACTOR
                       PIC 9(11) V99
01
    NET. AMOUNT
                       PIC 9(11) V99
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RECORD NAME IS DEPT.STATISTICS.CR LOCATION MODE SYSTEM WITHIN CONSTRN.REGION.I

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01
    DEPT. CODE
                       PIC 99
                                TYPE IS DATA-BASE-KEY
                       PIC X(20)
    DEPT.NAME
01
01
    NO.EMPLOYEE
                       PIC 9(5)
01
    NO.DIRECT.WORKER
                       PIC 9(5)
    NO.INDRCT.WORKER PIC 9(5)
01
01
    EMPLOYEE.PAYMNTS
                       PIC 9(11) V99
    DIRECT.WORK.PAYMNT PIC 9(11) V99
01
01
    INDRCT.WORK.PAYMNT PIC 9(11) V99
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RECORD NAME IS EXEMPTION.CR LOCATION MODE SYSTEM WITHIN CONSTRN.REGION.I

01	EXEMPT.TYPE	PIC	99	TYPE	ΙS	DATA-BASE-KEY
01	AMOUNT	PIC	9(11)	) V99		
01	INSUR. EXEMP. RATE	PIC	999			
01	TAX.EXEMP.RATE	PIC	999			

RECORD NAME IS TAX.RATE.CR LOCATION MODE SYSTEM WITHIN CONSTRN.REGION.I

01 UPPER.LIMIT PIC

PIC 9(11) V99 TYPE IS DATA-BASE-KEY

01 TAX.PERCENTAGE PIC 99

RECORD NAME IS MONTH.F.CR LOCATION MODE DIRECT MONTH WITHIN CONSTRN.REGION.I

01 MONTH PIC 99 TYPE IS DATA-BASE-KEY

RECORD NAME IS PLAN.REAL.CR LOCATION MODE VIA MFPRCR SET WITHIN CONSTRN.REGION.I

01 WORKER.TYPE PIC 99 01 PLAN.MAN.HOUR PIC 9(8) 01 PLAN.MAN PIC 9(5) 01 REAL.MAN.HOUR PIC 9(8) 01 REAL.MAN PIC 9(8)

01 PLAN.SALARY PIC 9(11)V99 01 REAL.SALARY PIC 9(11)V99

RECORD NAME IS MACHINE.LIST.CR LOCATION MODE SYSTEM WITHIN CONSTRN.REGION.I

01 MACHINE.CODE PIC 9(9) TYPE IS DATA-BASE-KEY

01 MACHINE.NAME PIC X(20)

01 MANUFACT NAME PIC X(20)

01 MANUFACT.ADDRESS PIC X(20)

01 DELIVER.DATE PIC 9(6)

01 PRICE PIC 9(11)V99

01 CODE OF.MANUFT PIC 9(9)

01 CAPACITY PIC 9(12)

01 PWT TYPE BINARY

01 POWER OCCURS PWT TIMES

02 TYPE PIC 9(3) 02 WORK.CONSUMP. PIC 9(12) 02 IDLE.CONSUMP. PIC 9(12)

01 GUARANTEE.PERIOD PIC 9(6)

01 AVRG.LIFE PIC 9(6)

01 DEPR.RATE PIC 999

01 USAGE.INFO PIC X(13)

RECORD NAME IS MONTH.G.CR LOCATION MODE DIRECT YEAR WITHIN CONSTRN.REGION.I

01 YEAR PIC 99 TYPE IS DATA-BASE-KEY

01 MONTH PIC 99

RECORD NAME IS PREVIOUS.USE.CR LOCATION MODE DIRECT REGION.CODE WITHIN CONSTRN.REGION.I

01 REGION. CODE PIC 99 TYPE IS DATA-BASE-KEY

01 ARRIV.DATE PIC 9(6) 01 LEAV.DATE PIC 9(6)

RECORD NAME IS PRESENT.USE.CR LOCATION MODE DIRECT WORKSITE.CODE WITHIN CONSTRN.REGION.I

01 WORKSITE.CODE PIC 99 TYPE IS DATA-BASE-KEY PIC 9(6)

01 ARRIVAL.DATE PIC 9(6) 01 ARRIVAL.TIME PIC 9999 01 LEAVE.DATE PIC 9(6)

01 LEAVE.DATE PIC 9(8) 01 LEAVE.TIME PIC 9999

01 OPER.CODE PIC 9(8)

RECORD NAME IS PLAN.CR LOCATION MODE DIRECT WORKSITE.CODE WITHIN CONSTRN.REGION.I

01 WORKSITE.CODE PIC 99 TYPE IS DATA-BASE-KEY

01 ARRIVAL.DATE PIC 9(6) 01 LEAVE.DATE PIC 9(6)

RECORD NAME IS FAILURE.CR LOCATION MODE VIA MLFAILCR SET WITHIN CONSTRUN.REGION.I

01 BREAK.DATE PIC 9(6)

01 REPAIR.DATE PIC 9(6)

01 Q TYPE BINARY

01 PC.REPLACED OCCURS Q TIMES

02 PART.CODE PIC 9(9)

01 FIRM. REPAIR PIC X(10) 01 EXPLANATION PIC X(40) RECORD NAME IS MAINT.DETAIL.CR LOCATION MODE VIA MLMDTL SET WITHIN CONSTRN.REGION.I

01 MAINT.DATE

PIC 9(6)

01 Q TYPE BINARY

01 REPLACEMENT OCCURS Q TIMES

02 PART.CODE

PIC 9(9)

01 FIRM.MAINT

PIC X(10)

RECORD NAME IS MAINT.PLAN.CR LOCATION MODE VIA MLLPLNCR SET WITHIN CONSTRN.REGION.I

01 SUBPART.CODE

PIC 9(9)

01 MNT TYPE BINARY

01 USBPART OCCURS MNT TIMES

02 REPAIR.PERIOD

PIC 9(6)

02 LAST. REPR. DATE

PIC 9(6)

02 REPAIR.INFO

PIC X(40)

RECORD NAME IS SPARE.PARTS.CR LOCATION MODE SYSTEM WITHIN CONSTRN.REGION.I

01 WAREHOUSE.NO PIC 99

01 PART.CODE PIC 9(9) TYPE IS DATA-BASE-KEY

01 PART.NAME PIC X(25)

01 UNIT PIC 99

01 QUANT.REMAIN PIC 9(7) V999

01 TOTAL.COST PIC 9(11) V99

01 MIN.STOCK.LEV PIC 9(7) V999

01 MAX.STOCK.LEV PIC 9(7) V999

01 R.O.P. PIC 9(7) V999

01 R.O.Q. PIC 9(7) V999

RECORD NAME IS DEMAND.SUPPLY.CR LOCATION MODE VIA SPDSPLCR SET WITHIN CONSTRN.REGION.I

01 DEMAND. DATE PIC 9(6)

01 DEMAND.QUAN PIC 9(7) V999

01 DEMAND. DEPT PIC 99

01 MACH. CODE PIC 9(9)

01 SUPPLY.DATE PIC 9(6)

01 SUPPLY.QUAN PIC 9(7) V999

01 ROLL.NO PIC 9(8)

01 COST PIC 9(11) V99

RECORD NAME IS R.N.CR LOCATION MODE VIA SUPLRNCR SET WITHIN CONSTRN.REGION.I

01 PRICE 01 QUOTA PIC 9(11)V99 PIC 9(7)V999

RECORD NAME IS SUPPLIER.MACH.CR LOCATION MODE SYSTEM WITHIN CONSTRN.REGION.I

01 SUPPLIER. CODE PIC 9(6) TYPE IS DATA-BASE-KEY

01 SUPPLIER.NAME PIC X(20)

01 SUPPLIER.ADDRESS PIC X(20) 01 INFORMATION PIC X(40)

RECORD NAME IS ORDER.SHIP.CR
LOCATION MODE CALC PROC-OSCR USING ORDER.DATE, SUPPLIER.CODE
DUPLICATES ARE NOT ALLOWED
WITHIN CONSTRN.REGION.I

01 ORDER.DATE PIC 9(6) 01 ORDER.QUAN PIC 9(4)V999 01 SUPPLIER.CODE PIC 9(6) 01 DELIVERY.DATE PIC 9(6)

01 DELIVERY.QUAN PIC 9(7)V999

01 INVOICE.NO PIC 9(8) 01 PRICE PIC 9(11) V99

RECORD NAME IS FIXED.ASSETS.CR LOCATION MODE SYSTEM WITHIN CONSTRN.REGION.I

DEPT.USING

01

01 CODE PIC 9(9) TYPE IS DATA-BASE-KEY

PIC 99

01 NAME PIC X(20)
01 PURCHASE.DATE PIC 9(6)
01 INITIAL.PRICE PIC 9(11)V99
01 DEPR.RATE PIC 999

RECORD NAME IS PART.LIST.T LOCATION MODE SYSTEM WITHIN TRUCK

01 WAREHOUSE.NO PIC 99 01 PART.CODE PIC 9(9) TYPE IS DATA-BASE-KEY 01 PART.NAME PIC X(25) PIC X(2) 01 UNIT 01 QUAN. REMAIN PIC 9(7) V999 01 TOTAL.COST PIC 9(11) V999 01 MIN.STOCK.LEV PIC 9(7) V999 01 MAX.STOCK.LEV PIC 9(7) V999 01 · R.O.Q PIC 9(7) V999 R.O.P. PIC 9(7) V999 01 01 LAST.ENTER.DATE PIC 9(6) PIC 9(7) V999 01 QUAN.REMAIN 01 COST PIC 9(11) V99 PIC 9(13)V999 01 TOTAL.TIME.QUAN 01 TOTAL.TIME.MONEY PIC 9(17) V99

RECORD NAME IS R.C.T LOCATION MODE VIA SRCT SET WITHIN TRUCK

01 PRICE PIC 9(11) V99 01 QUOTA PIC 9(7) V999

RECORD NAME IS SUPPLIER.T LOCATION MODE SYSTEM WITHIN TRUCK

01 SUPPLIER.CODE PIC 9(6) TYPE IS DATA-BASE-KEY
01 SUPPLIER.NAME PIC X(20)
01 SUPPLIER.ADDRESS PIC X(20)
01 PROD.CAPACITY PIC 9(7)V999
01 INFORMATION PIC X(40)

RECORD NAME IS AVG.STOCK.MONTH.T LOCATION MODE CALC PROC-ASMT USING MONTH DUPLICATES ARE NOT ALLOWED WITHIN TRUCK

01 MONTH PIC 9(2) 01 AVRG.QUANTITY PIC 9(7) V999 01 AVRG.COST PIC 9(11) V99 RECORD NAME IS R.E.T. LOCATION MODE CALC RET USING MONTH DUPLICATES ARE NOT ALLOWED WITHIN TRUCK

01 MONTH

PIC 9(2)

RECORD NAME IS QC.STATISTICS.T LOCATION MODE DIRECT TEST. CODE WITHIN TRUCK

01 TEST. CODE PIC 9(4) TYPE IS DATA-BASE-KEY

01 NORMAL.LIMIT

> 02 UPPER PIC 9(8) 02 LOWER PIC 9(8)

01 CUMULATIVE

> PIC 9(7)V999 PIC 9(7)V999 02 TESTED. OUAN DE FECT. QUAN 02 02 REPAIR.QUAN PIC 9(7) V999

RECORD NAME IS DEMAND.T LOCATION MODE CALC PROC-DEMT USING DEMAND.NO, CUSTOMER.CODE DUPLICATES ARE NOT ALLOWED WITHIN TRUCK

01 DEMAND.NO PIC 9(5)

DEMAND. DATE PIC 9(6) 01

PIC 9(7)V999 01 QUANTITY.ORDER

CUSTOMER.CODE TOTAL.PRICE PIC 9(6) 01

PIC 9(11) V99 01

01 PROD.PRIORITY PIC 9(4)

01 B TYPE BINARY

01 SHIPMENT OCCURS B TIMES

> PIC 9(6) 02 DATE PIC 9(7) V999 02 QUANTITY

RECORD NAME IS SELL.T LOCATION MODE CALC PROC-SEUT UDING DELIVERY.DATE. CUSTOMER. CODE

DUPLICATES ARE ALLOWED

WITHIN TRUCK

01 DELIVERY.DATE PIC 9(6)

DELIVER.QUANTITY PIC 9(7) V999 01

PIC 9(11) V99 01 TOTAL.PRICE 01 TOTAL.COST PIC 9(11) V99

PIC 9(6) 01 CUSTOMER.CODE

#### RECORD NAME IS ORDER.PLAN.T LOCATION MODE CALC PROC-OPT USING CONTRACT.NO, SUPPLIER.CODE

DUPLICATES ARE NOT ALLOWED

WITHIN TRUCK

QUANTITY.PLAN PIC 9(7) V999

01 OP TYPE BINARY

ORDER. DETAIL OCCURS OF TIMES 01

> 02 CONTRACT.NO
> 02 QUANTITY
> 02 TOTAL.COST
> 02 SUPPLIER.CODE PIC 9(5) PIC 9(7)V999

PIC 9(11) V99

PIC 9(6)

RECORD NAME IS ORDER. REAL. T LOCATION MODE CALC PROC-ORT USING DATE, SUPPLIER.CODE, INVOICE.NO

DUPLICATES ARE NOT ALLOWED WITHIN TRUCK

01 DATE PIC 9(6) 01 INVOICE.NO PIC 9(8)

01 SUPPLIER.CODE PIC 9(6) 01 QUANTITY.DELIVER PIC 9(7) V999

PRICE.TOTAL PIC 9(11) V99 01

RECORD NAME IS QC.TEST.T LOCATION MODE DIRECT TEST.CODE WITHIN TRUCK

PIC 9(4) TYPE IS DATA-BASE-KEY PIC 9(7)V999 PIC 9(8) TEST.CODE TEST.AMOUNT 01 01

RESULT 01

RECORD NAME IS TEST. DATA.T LOCATION MODE SYSTEM WITHIN TRUCK

PIC 9(4) TYPE IS DATA-BASE-KEY TEST.CODE TEST.NAME . 01

PIC X(20)01

NORMAL.LIMITS 01

> PIC 9(8) 02 UPPER PIC 9(8) 02 LOWER

RECORD NAME IS SUPPLY.PLAN.T LOCATION MODE CALC PROC-SUPPLANT USING DEPT.CODE DUPLICATES ARE NOT ALLOWED WITHIN TRUCK

01 PIC 9(2)

DEPT.CODE QUANTITY.PLAN 01 PIC 9(7) V999

01 MP TYPE BINARY

DEMAND OCCURS MP TIMES 01

> 02 QUANTITY PIC 9(7) V999 02 DATE PIC 9(6)

RECORD NAME IS PRODUCTION.PLAN.T LOCATION MODE CALC PROC-PRODPLANT USING DEPT.CODE DUPLICATES ARE NOT ALLOWED

WITHIN TRUCK

QUANTITY.PLAN PIC 9(7) V999 01 TOTAL.COST PIC 9(11)V99 01 01 DEPT.CODE PIC 9(2)

RECORD NAME IS MONTH.Z.T LOCATION MODE DIRECT MONTH WITHIN TRUCK

01 MONTH PIC 9(2) TYPE IS DATA-BASE-KEY

RECORD NAME IS SUPPLY. REAL.T LOCATION MODE CALC PROC-SUPREAL USING DATE, DEPT. CODE DUPLICATES ARE NOT ALLOWED

WITHIN TRUCK

DATE 0.1PIC 9(6) DEPT.CODE 01 PIC 9(2) TOTAL. COST PIC 9(6)
PIC 9(7) V999
PIC 9(11) 01 0.101

RECORD NAME IS PRODUCTION. REAL. T LOCATION MODE CALC PROC-PRODREALT USING DATE, DEPARTMENT.CODE

DUPLICATES ARE NOT ALLOWED

WITHIN TRUCK

PIC 9(6) 01 DATE PIC 9(6) 01 ROLL.NO DEPARTMENT.CODE PIC 9(2) 01 PIC 9(7) V999 QUANTITY.IN 01 TOTAL.COST PIC 9(11) V99 01

RECORD NAME IS MODEL LOCATION MODE SYSTEM WITHIN TRUCK

01 MODEL.CODE PIC 9(5) TYPE IS DATA-BASE-KEY PIC X(20)

RECORD NAME IS PROCESS LOCATION MODE VIA MP SET WITHIN TRUCK

01 PROCESS.CODE PIC 9(5)
01 PROCESS.NAME PIC X(20)
01 RESULT.PART.CODE PIC 9(9)
01 UNIT.COST PIC 9(11)V99
01 TIME.SCALE PIC 9(6)
01 DEPT.CODE PIC 99

RECORD NAME IS MATERIAL.USAGE LOCATION MODE VIA PMATU SET WITHIN TRUCK

01 PART.CODE PIC 9(9) 01 QUAN.PER.PROD PIC 9(7)V999

RECORD NAME IS MANPOWER.USAGE LOCATION MODE VIA PMANU SET WITHIN TRUCK

01 MANPOWER.TYPE PIC 9(4) 01 UNIT.PROD.TIME PIC 9(6) 01 NO.OF.MAN PIC 9(6) 01 UNIT.TIME.COST PIC 9(11)V99

RECORD NAME IS SUBPARTS
LOCATION MODE CALC PROC-SUBPRTS USING SUBPART.CODE
DUPLICATES ARE ALLOWED
WITHIN TRUCK

01 SUBPART.CODE PIC 9(9) 01 USAGE.RATE PIC 9(7)V999

RECORD NAME IS OPTIONAL PARTS LOCATION MODE CALC PROC-OPTPRTS USING OPTIONAL.PART.CODE DUPLICATES ARE ALLOWED WITHIN TRUCK

OPTIONAL.PART.CODE 01 PIC 9(9) 01 INDEX PIC X(6)

01 USAGE. RATE PIC 9(7) V999

RECORD NAME IS MACHINE.USAGE LOCATION MODE VIA PMACHU SET WITHIN TRUCK

MACHINE.CODE 0.1 PIC 9(5) PIC 9(6) TIME.PER.PROD 01

UNIT.TIME.COST 01 PIC 9(11) V99

TM TYPE BINARY 01

01 ENERGY OCCURS TM TIMES

> 02 TYPE PIC 9(3) PIC 9(6) 02 USE.PER.PROD

02 UNIT.COST PIC 9(11) V99

RECORD NAME IS IMPORT.LICENCE.T LOCATION MODE SYSTEM WITHIN TRUCK

01 FILE.NO PIC 9(10) TYPE IS DATA-BASE-KEY

CERTIF.DATE PIC 9(6) 01

01 CERTIF.NO PIC 9(5)

IMPORT.TYPE PIC 9(7) 01

CURRENCY. TYPE PIC X(5)
MONETRY. VALUE PIC 9(11 01

PIC 9(11) V99 01

DEPOSIT.PERCENT PIC 99 0.1

DEPOSIT. VALUE PIC 9(11) V99 01

DEPOSIT.DATE 01 PIC 9(6)

PIC X(10) DEPOSIT.BANK 01

01 LICENCE . DATE PIC 9(6) LICENCE.NO PIC 9(15) 01

VALIDITY PIC 9(6) 01

BEGIN. DATE 01

01

BEGIN.DATE PIC 9(6) EXTRA.PERIOD PIC 9(6) IMPORT.BANK.REF PIC 9(15) 01

IMPORT.BANK.CODE PIC 9(10) 01

```
RECORD NAME IS LICENCE.DETAIL.T LOCATION MODE DIRECT MATL.CODE WITHIN TRUCK
```

01	MATL.CODE	PIC 9(9)	TYPE	IS	DATA-BASE-KEY
01	MATL.NAME	PIC X(25)			
01	QUOTA.QUAN	PIC $9(7)$ $\dot{V}9$	99		•
01	QUOTA. VALUE	PIC 9(11)V	99		

#### RECORD NAME IS IMPORT.PREP.T LOCATION MODE VIA LDIPT SET WITHIN TRUCK

#### 01 PROFORM.INVOICE

_				
	02	VALUE	PIC	9(11)V99
	02	QUANTITY	PIC	9(7)V999
	02	FIRM.CODE	PIC	9(6)
	02	DATE	PIC	9(6)
	02	ИО	PIC	.9(8)

ΟT	CORRESPND.BANK	· PIC	X(10)	l
01	INTERMDT.BANK	PIC	X(10)	ı

01 LETTER.CREDIT

02	OPEN.DATE	PIC 9(6)
02	VALIDITY	PIC 9(6)
0 <b>3</b>	AMOUNT	PIC 9(11)V99

01	COUNTRY	PIC	X(10)
01	EXPLANATION	PIC	X(40)
01	TARIF.NO	PIC	9(15)
01	TAX.PERCENT	PIC	99

## RECORD NAME IS IMPORT.REAL.T LOCATION MODE VIA LDIRT SET WITHIN TRUCK

01	IMPORT.DATE	PIC 9(6)
01	EXCHANGE.RATE	PIC 9(5)
01	CUSTM.ARRIV.DATE	PIC 9(6)
01	TRANSP.TYPE	PIC X(10)
01	TRANSP.FIRM	PIC X(10)
01	INSURANCE.COST	PIC 9(11)V99
01	FREIGHT.COST	PIC 9(11)V99
01	QUANTITY	PIC 9(7) V999
01	TOTAL.PRICE	PIC 9(11) V99
01	TRANSFER	

02	DATE	. I	PIC	9(6)
02	NO	I	PIC	9(15)
02	EXCHANGE.RATE	·	PIC	9(5)

```
01
    INSURANCE.POLICY
    02
         FIRM
                                     PIC X(10)
PIC 9(6)
    02
         DATE
    02
         NO
                                     PIC 9(15)
01
    REGISTRATION
    02
         DATE
                                     PIC 9(6)
PIC 9(15)
    02
         NO
    02
         EXCHANGE. RATE
                                     PIC 9(5)
01
    CUSTOM. TAX
    02
         PAYM. DATE
                                     PIC 9(6)
PIC 9(15)
    02
         PAYM. NO
                                     PIC 9(11)V99
    02
         AMOUNT
                         PIC X(40)
01
    EXPLANATION
01
    INVOICE.NO
                         PIC 9(8)
```

RECORD NAME COERTF.DEPOSIT.T LOCATION MODE SYSTEM WITHIN TRUCK

01	BANK.CODE	PIC 9(10) TYPE IS DATA-BASE-KEY
01	VALUE	PIC 9(11) V99
01	CURRENCY.TYPE	PIC X(5)
01	VALIDITY	PIC 9(6)
01	BEGIN. DATE	PIC 9(6)
01	CERTF.NO	PIC 9(15)
01	FIRM.GIVEN	PIC X(20)
01	GIVE.DATE	PIC 9(6)
01.	BACK.DATE	PIC 9(6)
01	INTEREST.RATE	PIC 9(2)

RECORD NAME IS BS.TOTAL.T LOCATION MODE SYSTEM WITHIN TRUCK

01	DATE	PIC 9	9(6)	TYPE	IS	DATA-BASE-KEY
01	VALUE.TOTAL	PIC 9	9(11)	V99		

RECORD NAME IS BS.FORMAT.T LOCATION MODE VIA BRBFH SET WITHIN TRUCK

01	LINE.NO	PIC 99
01	ASST.LIABLTY	PIC A
01	TITLE	PIC X(35)
01	UNDERLINE	PICA
01	COLUMN.NO	PIC 999
01	AMOUNT	PIC 9(11)V99

RECORD NAME IS BS.ACCOUNT.T LOCATION MODE DIRECT LINE.NO WITHIN TRUCK

PIC 99 TYPE IS DATA-BASE-KEY PIC X(35) PIC 999 01 LINE

01 TITLE 01 COLUMN.NO

AMOUNT 01 PIC 9(11) V99

RECORD NAME IS PL.RESULT.T LOCATION MODE SYSTEM WITHIN TRUCK

PIC 9(6) TYPE IS DATA-BASE-KEY 01 DATE 01 DATE PIC 9(6) TY 01 VALUE.TOTAL PIC 9(11)V99

RECORD NAME IS PL.FORMAT.T LOCATION MODE VIA PRPFH SET WITHIN TRUCK

LINE.NO ASST.LIABLTY 01 PIC 99 PIC A 01

01 TITLE PIC X(35)

01 UNDERLINE 01 COLUMN.NO PIC A PIC 999

PIC 9(11) V99 01 AMOUNT

RECORD NAME IS PL.ACCOUNT.T LOCATION MODE DIRECT LINE.NO WITHIN TRUCK

PIC 99 TYPE IS DATA-BASE-KEY PIC X(35) LINE.NO 01

01 TITLE 01 COLUMN.NO PIC 999 01 AMOUNT PIC 9(11) V99

RECORD NAME IS BUDGET.DATE.T LOCATION MODE SYSTEM · WITHIN TRUCK

PIC 99 TYPE IS DATA-BASE-KEY 01 YEAR

PIC 99 01 MONTH

RECORD NAME IS BUDGET.TOTAL.T LOCATION MODE DIRECT ACCOUNT.NO WITHIN TRUCK

01 ACCOUNT.NO PIC 9(6) TYP IS DATA-BASE-KEY
01 ACCOUNT.NAME PIC X(20)
01 BUDGET.AMOUNT PIC 9(11)V99
01 REAL.AMOUNT PIC 9(11)V99

RECORD NAME IS BUDGET.LEVEL.I.T LOCATION MODE CALC PROC-BUDLEV USING LEVEL.NO DUPLICATES ARE ALLOWED WITHIN TRUCK

01 LEVEL.NO PIC 9999

01 BUDAC TYPE BINARY

01 ACCOUNT OCCURS BUDAC TIMES

 02
 ACCOUNT.NO
 PIC 9(6)

 02
 ACCOUNT.NAME
 PIC X(20)

 02
 BUDGET.AMOUNT
 PIC 9(11) V99

 02
 REAL.AMOUNT
 PIC 9(11) V99

RECORD NAME IS BUDGET.LEVEL.Z.T LOCATION MODE CALC PROC-BUDLEV USING LEVEL.NO DUPLICATES ARE ALLOWED WITHIN TRUCK

01 LEVEL.NO PIC 9999

01 BUDAC TYPE BINARY

01 ACCOUNT OCCURS BUDAC TIMES

 02
 ACCOUNT.NO
 PIC 9(6)

 02
 ACCOUNT.NAME
 PIC X(20)

 02
 BUDGET.AMOUNT
 PIC 9(11) V99

 02
 REAL.AMOUNT
 PIC 9(11) V99

RECORD NAME IS CREDIT.T LOCATION MODE SYSTEM WITHIN TRUCK

01 CERTIFCT.NO PIC 9(15) TYPE IS DATA-BASE-KEY RECEIV. DATE PIC 9(6) 01 PIC X(8)0.1CREDIT. TYPE PIC X(40) 01 EXPLANATION PIC 9(11)V99 LIMIT. VALUE 01 PIC 9(6) VALIDITY 01 CURRENCY.TYPE PIC X(5) 01 REF.NO PIC 9(15) 01

01 DUR TYPE BINARY

01 INTEREST OCCURS DUR TIMES

INTEREST.RATE 02 INTEREST.RATE PIC 99
INTRST.RATE.DATE PIC 9(6) 02

RECORD NAME IS CREDIT.GET.T LOCATION MODE DIRECT DATE WITHIN TRUCK

01 DATE PIC 9(6) TYPE IS DATA-BASE-KEY PIC 9(11)V99 PIC X(40)

RECORD NAME IS CREDIT.PAY.T LOCATION MODE DIRECT DATE WITHIN TRUCK

01 DATE PIC 9(6) TYPE IS DATA-BASE-KEY PIC 9(11) V99 PIC X(40)

RECORD NAME IS PAYABLES.T LOCATION MODE DIRECT TYPE PAYABLE WITHIN TRUCK

TYPE.PAYABLE PIC 9999 TYPE IS DATA-BASE-KEY CREDITOR PIC X (10) 01

01

01 AMOUNT PIC X(10)
01 DATE.PLAN PIC 9(11) V99
01 DATE.DUE PIC 9(6)
01 DATE.REAL PIC 9(6)
01 REFERENCE PIC X(15)

RECORD NAME IS RECEIVABLES.T LOCATION MODE DIRECT, TYPE, RECEIV WITHIN TRUCK

PIC 9999 TYPE IS DATA-BASE-KEY

01 TYPE.RECEIV 01 DEBITOR 01 AMOUNT PIC X(10)

PIC 9(11) V99

01 DATE.PLAN PIC 9(6)
01 DATE.DUE PIC 9(6)
01 DATE.REAL PIC 9(6)
01 REFERENCE PIC X(15) O1 DATE.PLAN
O1 DATE.DUE

### RECORD NAME IS BOND.DETAIL.T LOCATION MODE CALC PROC-BDT USING ENDORSE.DATE, RECEIV.DATE

DUPLICATES ARE NOT ALLOWED

#### WITHIN TRUCK

01	RECEIV.DATE	PIC 9(6)
01	DEBITOR	PIC X(10)
01	ENDORS.FROM	PIC X(10)
01	ENDORS.TO	PIC X(10)
01	ENDORSE.DATE	PIC 9(6)
01	ROLL.NO	PIC 9(15)
01	DEBIT.PLACE	PIC X (12)
01	ENDORSE.REF	PIC 9(15)
01	BANK.REF.NO	PIC 9(15)
01	USAGE.TYPE	PIC X(12)

#### RECORD NAME IS LEDGER.ACCNT.T LOCATION MODE SYSTEM WITHIN TRUCK

01	ACCOUNT.NO	PIC 999 TYPE IS DATA-BASE-K	ΕY
01	ACCOUNT.NAME	PIC X(20)	
01	DRCR	PIC A	
01	REMAINDER	PIC 9(11)V99	

#### RECORD NAME IS SUBSDR.ACCNT.T LOCATION MODE CALC PROC-ACT USING ACCOUNT.NO DUPLICATES ARE NOT ALLOWED WITHIN TRUCK

01	ACCOUNT.NO	PIC	99
01	ACCOUNT. NAME	PIC	X(20)
01	DRCR	PIC	A
01	REMAINDER	. PIC	9(11)V99

#### RECORD NAME IS JOURNAL.ACCNT.T LOCATION MODE CALC PROC-ACT USING ACCOUNT.NO DUPLICATES ARE NOT ALLOWED WITHIN TRUCK

01	ACCOUNT.NO	PIC	999
01	ACCOUNT.NAME	PIC	X(20)
01	DRCR	PIC	Α
01	REMAINDER	PIC	9(11)V99

RECORD NAME IS MONTH.T LOCATION MODE CALC PROC-ACT USING YEAR DUPLICATES ARE NOT ALLOWED

WITHIN TRUCK

YEAR 01 PIC 99 01 MONTH PIC 99

RECORD NAME IS JOURNAL.T LOCATION MODE CALC PROC-ACT USING DATE DUPLICATES ARE ALLOWED

WITHIN TRUCK

DATE PIC 9(6) PIC 9(6) 01 TRANSACT.NO 01

DRCR AMOUNT 01 PIC A

PIC 9(11) V99 01 PIC X(40) EXPLANATION 01

RECORD NAME IS BANKS.T LOCATION MODE SYSTEM WITHIN TRUCK

BANK.CODE PIC 9(10) TYPE IS DATA-BASE-KEY BANK.NAME PIC X(20) BRANCH.NAME PIC X(20) BANK.ACCNT.NO PIC 9(15) 01

01 01

01

BACC TYPE BINARY 01

ACCNT OCCURS BACC TIMES 01

02 ACCOUNT.TYPE PIC 9(15) 02 REMAINDER PIC 9(11) PIC 9(11) V99

RECORD NAME IS DEPT.DATA.T LOCATION MODE SYSTEM WITHIN TRUCK

PIC 99 TYPE IS DATA-BASE-KEY

01 DEPT.CODE 01 DEPT.NAME PIC X(20)

USAGE PERCENTAGES 01

> 02 PIC 99 ELECTRICITY PIC 99 02 FUEL PIC 99 02 WATER

01 NPW TYPE BINARY

PRODUCT OCCURS NPW TIMES 01

> PIC 9(9) CODE 02 PROD. NAME PIC 9(6) 02

RECORD NAME IS DEPT.COST.T LOCATION MODE VIA DDDCT SET WITHIN TRUCK

01 YEAR PIC 99 01 MONTH PIC 99.

01 DEPRECIATION PIC 9(11) V99 01 OVERHEAD PIC 9(11)V99 01 GENERAL.COST PIC 9(11) V99

01 NPW TYPE BINARY

01 PRODUCT OCCURS NPW TIMES

> 02 CODE PIC 9(9)

02 INDIRECT.COST PIC 9(11)V99

RECORD NAME IS MONTH.E.T LOCATION MODE SYSTEM WITHIN TRUCK

01 YEAR PIC 99 TYPE IS DATA-BASE-KEY

01 MONTH PIC 99

RECORD NAME IS MODEL.COST.T LOCATION MODE VIA MEMCT SET WITHIN TRUCK

01 MONTH PIC 99

01 PART.CODE PIC 9(9) 01 AMOUNT.PROD PIC 9(7) V999

01 TOTAL.DIRECT.COST PIC 9(11) V99

TOTAL.INDIRECT.COST PIC 9(11) V99

RECORD NAME IS PERSONNEL.LIST.T LOCATION MODE SYSTEM WITHIN TRUCK

PIC 9(8) TYPE IS DATA-BASE-KEY 01 ID.NO

PIC X(20)01 NAME 01 ADDRESS

PIC X(20)PIC 9(6)

01 BIRTH.DATE PIC A

.01 SEX 01 ENTER.DATE PIC 9(6)

PIC 9(9) 01 INSURANCE.NO

PIC 9(9) 01 TAX.NO

PIC 9(2) 01 NATIONALITY

01 INFIRM, CLASS PIC 9

01 FL TYPE BINARY

FOR.LANG. OCCURS FL TIMES 01

> PIC X(10)02 FOREIGN. LANG

01 01 01 01 01	MOT BIR REL	HER.NAME HER.NAME TH.PLACE IGION CARD	PIC PIC	X(10) X(10) X(10) X(10)	
	02 02 02 02 02 02 02 02	PROVINCE TOWN DISTRICT QUARTER HOUSE BINDING PAGE CARD.NO			PIC X(10) PIC X(10) PIC X(10) PIC X(10) PIC X(6) PIC 9(6) PIC 9(6) PIC 9(9)

#### RECORD NAME IS EDUCATION.T LOCATION MODE VIA PERSEDT SET WITHIN TRUCK

01	SCHOOL.NAME	PIC	X(10)
01	GRADTN.DATE	PIC	9(6)
01	DIPLOME.NO	PIC	9 (5)
01	FIELD	PIC	X(10)

#### RECORD NAME IS REFERENCES.T LOCATION MODE VIA PERSREFT SET WITHIN TRUCK

01	NAME	PIC	X(20)
01	ADDRESS	PIC	X(20)
01	POSITION	PIC	X(10)

#### RECORD NAME IS EXPERIENCE.T LOCATION MODE VIA PERSEXT SET WITHIN TRUCK

01	COMPANY.NAME	PIC X(15)
01	COMPANY.ADDRESS	PIC X(20)
01	POSITION	PIC X(10)
. 01	LAST SALARY	PTC 9(11) V99

#### RECORD NAME IS PREVIOUS.WORK.T LOCATION MODE VIA PERSPWT SET WITHIN TRUCK

01	DEPT.CODE	PIC 99
01	BEGIN.DATE	PIC 9(6)
01	END.DATE	PIC 9(6)
01	POSITION	PIC X(10)
01	SALARY	PIC 9(11)V99
01	GRADES	PIC 9(5)

RECORD NAME IS FAMILY.INFO.T LOCATION MODE VIA PERSFIT SET WITHIN TRUCK

01	MARITAL.STATUS	PIC	AA
01	SPOUSE.NAME	PIC	X(10)
01	SPOUSE.WORK		X(10)

01 CHLD TYPE BINARY

01 CHILD OCCURS CHLD TIMES

02	CHILD. NAME	PIC	X(10)
02	CH.BIRTH.DATE		9(6)
02	EDUCATION	PIC	99
02	:ARITAL.STAT.	PIC	99

RECORD NAME IS ACTUAL.WORK.T LOCATION MODE VIA PERSAWT SET WITHIN TRUCK

01	DEPT.CODE	PIC	99
01	ENTER. DATE	PIC	9(6)
01	POSITION	PIC	X(10)
01	SALARY	PIC	9(11)V99
01	GRADE	PIC	9(5)
01	NEXT.LEAVE.DATE	PIC	9(6)
01	NEXT.LEAVE.DATE	PIC	9(6)
01	LVE TYPE BINARY		
01	LEAVE OCCURS LVE	TIMES	5
	02 PAST.LEAVE.DA	ATE	PIC 9(6)
	02 PAST.RETRN.DA		PIC 9(6)

#### RECORD NAME IS PAY.ROLL.T LOCATION MODE VIA PERSPRT WITHIN TRUCK

01	MONTH	PIC 99
01	YEAR	PIC 99
01	WORK.DAY.TOTAL	PIC 99
01	ANNUAL.LEAVE.TIME	PIC 999
01	COMPELG.TIME	PIC 999
01	WEEKLY.LEAVE.TIME	PIC 9(5)
01	OTHER.LEAVE.TIME	PIC 9(5)
01	HOLIDAY.OVERTIME	PIC 9(5)
01	NORMAL.OVERTIME	PIC 9(5)
01	OVERTIME.PAYMENT	PIC 9(11) V99
01	UNDERTIME. DECREASE	
01	PREMIUM	PIC 9(11) V99
01	BONUS	PIC 9(11) V99
01	CHLD.PAYMNT	PIC 9(11) V99
01	SENIOR. INDEMN	PIC 9(11) V99

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EDUCATION. PAYM
                        PIC 9(11) V99
01
    COMBUST.PAYM
                        PIC 9(11) V99
    MILITARY . PAYM
01
                        PIC 9(11) V99
01
    TRAVEL.EXP
                        PIC 9(11) V99
01
    ENCOURAGE. PAYM
                        PIC 9(11) V99
01
    INCREASE. PREPAYM
                        PIC 9(11) V99
01
    PREPAYMENT
                        PIC 9(11) V99
01
    SPECIAL. DISCOUNT
                        PIC 9(11) V99
01
     GENERAL.DISCOUNT
                        PIC 9(11) V99
01
    EMIGRANT.DISCOUNT PIC 9(11) V99
01
    INFIRM. DISCOUNT
                        PIC 9(11) V99
01
    CHILD. DISCOUNT
                        PIC 9(11) V99
01
    EDUCATION. DISCOUNT PIC 9(11) V99
01
    NO.INSURANCE.DAY
                        PIC 99
01
    TAX.CLASS
                        PIC 99
01
     GROSS.INSUR.AMOUNT PIC 9(11) V99
01
     GROSS.TAX.AMOUNT
                        PIC 9(11) V99
01
    INSURANCE.PREMIUM PIC 9(11) V99
                        PIC 9(11) V99
01
    INCOME.TAX
    DEDUCTION OCCURS 8 TIMES
01
         DEDUC.TYPE
    02
                                  PIC 9(11) V99
01
    ROUND.OFF.FACTOR PIC 999
01
    NET.AMOUNT
                        PIC 9(11) V99
RECORD NAME IS DEPT.STATISTICS.T
LOCATION MODE SYSTEM
WITHIN TRUCK
01
    DEPT.CODE
                        PIC 99
                                 TYPE IS DATA-BASE-KEY
    DEPT.NAME
01
                        PIC X(20).
-01
    NO.EMPLOYEE
                        PIC 9(5)
01
    NO.DIRECT.WORKER
                        PIC 9(5)
    NO.INDRCT.WORKER
                       PIC 9(5)
01
    EMPLOYEE.PAYMNTS
01
                       PIC 9(11) V99
    DIRECT.WORK.PAYMNT PIC 9(11) V99
01
01
    INDRCT.WORK.PAYMNT PIC 9(11) V99
RECORD NAME IS EXEMPTION.T
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RECORD NAME IS EXEMPTION.T LOCATION MODE SYSTEM WITHIN TRUCK

01	EXEMPT.TYPE	PIC	99	TYPE IS	DATA-BASE-KEY	
01	AMOUNT	PIC	9(11)	V99	· · · · · · · · · · · · · · · · · · ·	
01	INSUR.EXEMP.RATE	PIC	999			
01	TAX.EXEMP.RATE	PIC	999			

RECORD NAME IS TAX.RATE.T LOCATION MODE SYSTEM WITHIN TRUCK

UPPER.LIMIT PIC 9(11)V99 TYPE IS DATA-BASE-KEY PIC 99 01

01 TAX.PERCENTAGE

RECORD NAME IS MONTH. F.T LOCATION MODE DIRECT MONTH WITHIN TRUCK

01 MONTH PIC 99 TYPE IS DATA-BASE-KEY

RECORD NAME IS PLAN. REAL.T LOCATION MODE VIA MFPRT SET WITHIN TRUCK

01	WORKER.TYPE	PIC	99
01	PLAN.MAN.HOUR	PIC	9(8)
01	PLAN.MAN	PIC	9(5)
01	REAL.MAN.HOUR	PIC	9(8)
01	REAL.MAN	PIC	9 (5)
01	PLAN.SALARY	PIC	9(11)V99
01	REAL.SALARY	PIC	9(11)V99

RECORD NAME IS MACHINE.LIST.T LOCATION MODE SYSTEM WITHIN TRUCK

	MACHINE.CODE			TYI	PE IS	DATA-BASE-KEY
	MACHINE NAME		X(20)			4
01	MANUFACT.NAME	PIC	X(20)			
01	MANUFACT. ADDRESS		X(20)			
01	DELIVER.DATE	PIC	9(6)			
	PRICE		9(11)	V99		•
01	CODE.OF.MANUFT	PIC	9(9)			
01	CAPACITY	PIC	9(12)			
01	PWT TYPE BINARY					
01	POWER OCCURS PWT	TIMES	5			•
	02 TYPE			PIC	9(3)	
	02 WORK.CONSUMP	_			9(12)	1
	02 IDLE.CONSUMP	•			9(12)	
	02 IDEE.CONSUMP			FIC	2(14.	)

	02 WORK.CONSUMP.		PIC 9(1 PIC 9(1
01	GUARANTEE.PERIOD	PIC 9(6)	
01	AVRG.LIFE	PIC 9(6)	
01	DEPR.RATE	PIC 999	
01	USAGE.INFO	PIC X(13)	

RECORD NAME IS MONTH.G.T LOCATION MODE DIRECT YEAR WITHIN TRUCK

01 YEAR PIC 99 TYPE IS DATA-BASE-KEY

01 MONTH PIC 99

RECORD NAME IS MACH.PLAN.REAL.T LOCATION MODE DIRECT PLAN.BEGIN.DATE WITHIN TRUCK

01 PART.CODE PIC 9(9) 01 ENTER.DATE PIC 9(6)

01 PLAN.BEGIN.DATE PIC 9(6) TYPE IS DATA-BASE-KEY

PIC 9(9)

01 PLAN.END.DATE PIC 9(6)

01 CONFIRMATION PIC 9(2)

01 REAL.BEGIN.DATE PIC 9(6)

01 REAL.END.DATE PIC 9(6)

RECORD NAME IS FAILURE.T LOCATION MODE VIA MLFAILT SET WITHIN TRUCK

01 BREAK. DATE PIC 9(6)

01 REPAIR.DATE PIC 9(6)

01 O TYPE BINARY

01 PC.REPLACED OCCURS Q TIMES

02 PART.CODE

01 FIRM.REPAIR PIC X(10) 01 EXPLANATION PIC X(40)

RECORD NAME IS MAINT.DETAIL.T LOCATION MODE VIA MLMDTLT SET WITHIN TRUCK

01 MAINT. DATE PIC 9(6)

01 O TYPE BINARY

01 REPLACEMENT OCCURS Q TIMES

02 PART.CODE PIC 9(9)

01 FIRM.MAINT PIC X(10)

RECORD NAME IS MAINT.PLAN.T LOCATION MODE VIA MLMPLNT SET WITHIN TRUCK

01 SUBPART.CODE PIC 9(9)

01 MNT TYPE BINARY

01 SUBPART OCCURS MNT TIMES

02 REPAIR.PERIOD PIC 9(6)
02 LAST.REPR.DATE PIC 9(6)
02 REPAIR.INFO PIC X(40)

RECORD NAME IS SPARE.PARTS.T LOCATION MODE SYSTEM WITHIN TRUCK

01	WAREHOUSE.NO	PIC	99
01	PART.CODE	PIC	9(9)
01	PART.NAME	PIX	X(25)
01	UNIT	PIC	99
01	QUANT.REMAIN	PIC	9(7)V999
01	TOTAL.COST		9(11) V99
01	MIN.STOCK.LEV	PIC	9(7) V999
01	MAX.STOCK.LEV	PIC	9(7) V999
01	R.O.P		9(7) V999
01	R.O.Q.	PIC	9 (7) V999

RECORD NAME IS DEMAND.SUPPLY.T LOCATION MODE VIA SPDSPLT SET WITHIN TRUCK

01	DEMAND.DATE	PIC 9(6)
01	DEMAND.QUAN	PIC 9(7)V999
01	DEMAND. DEPT	PIC 99
01	MACH. CODE	PIC 9(9)
01	SUPPLY.DATE	PIC 9(6)
01	SUPPLY QUAN	PIC 9(7) V999
01	ROLL.NO	PIC 9(8)
01	COST	PIC 9(11)V99

RECORD NAME IS R.N.T. LOCATION MODE VIA SUPLENT SET WITHIN TRUCK

01	PRICE	PIC	9(11)V99
01	QUOTA	PIC	9(7)V999

RECORD NAME IS SUPPLIER.MACH.T LOCATION MODE SYSTEM WITHIN TRUCK

	SUPPLIER.CODE	PIC 9(6)	TYPE IS	DATA-BASE-KEY
0.T	SUPPLIER.NAME	PIC X(20)		*
01	SUPPLIER.ADDRESS	PIC X(20)		•
01	INFORMATION	PIC X(40)		

# RECORD NAME IS ORDER.SHIP.T LOCATION MODE CALC PROC-OST USING ORDER.DATE, SUPPLIER.CODE DUPLICATES ARE NOT ALLOWED WITHIN TRUCK

01	ORDER.DATE	PIC	9(6)
01	ORDER.QUAN		9 (7) V999
01	SUPPLIER.CODE		9(6)
01	DELIVERY.DATE	PIC	9(6)
01	DELIVERY.QUAN	PIC	9(7)V999
01	INVOICE.NO	PIC	9(8)
01	PRICE	PIC	9(11)V99

#### RECORD NAME IS FIXED.ASSETS.T LOCATION MODE SYSTEM WITHIN TRUCK

01	CODE	PIC	9(9)	TYPE	IS	DATA-BASE-KEY
01	NAME	PIC	X(20)			
01	PURCHASE.DATE	PIC	9(6)			
01	INITIAL.PRICE	PIC	9(11) VS	9		
01	DEPR.RATE	PIC	999			
01	DEPT.USING	PIC	99			

#### RECORD NAME IS PART.LIST.P. LOCATION MODE SYSTEM WITHIN PAINT

01	WAREHOUSE . NO	PIC 99
01	PART.CODE	PIC 9(9) TYPE IS DATA-BASE-KEY
01	PART.NAME	PIC X(25)
01	UNIT	PIC X(2)
01	QUAN.REMAIN	PIC 9(7) V999
01	TOTAL.COST	PIC 9(11) V99
01	MIN.STOCK.LEV	PIC 9(7) V999
01	MAX.STOCK.LEV	PIC 9(7) V999
01	R.O.Q.	PIC 9(7) V999
01	R.O.P.	PIC 9(7) V999
`01	LAST.ENTER.DATE	PIC 9(6)
0.1	QUAN.REMAIN	PIC 9(7) V999
01	COST	PIC 9(11)V99
01	TOTAL.TIME.QUAN	PIC 9(13)V99
01	TOTAL.TIME.MONEY	PIC 9(17) V99

RECORD NAME IS R.F.P LOCATION MODE VIA SRFP SET WITHIN PAINT

01 PRICE 01 QUOTA

PIC 9(11) V99 PIC 9(7) V999

RECORD NAME IS SUPPLIER.P LOCATION MODE SYSTEM WITHIN PAINT

01 SUPPLIER. CODE PIC 9(6) TYPE IS DATA-BASE-KEY PIC X(20)

01 SUPPLIER.NAME PIC X(20) 01 SUPPLIER.ADDRESS PIC X(20)

01 PROD.CAPACITY PIC 9(7) V999 01 INFORMATION PIC X(40)

RECORD NAME IS AVG.STOCK.MONTH.P

LOCATION MODE CALC PROC-ASMP USING MONTH DUPLICATES ARE NOT ALLOWED WITHIN PAINT

01 MONTH PIC 9(2)

01 AVRG.QUANTITY PIC 9(7)V999 01 AVRG.COST PIC 9(11)V99

RECORD NAME IS R.H.P.
LOCATION MODE CALC REP USING MONTH
DUPLICATES ARE NOT ALLOWED
WITHIN PAINT

01 MONTH

PIC 9(2)

RECORD NAME IS DEMAND.P LOCATION MODE CALC PROC-DEMP USING DEMAND.NO, CUSTOMER.CODE DUPLICATES ARE NOT ALLOWED WITHIN PAINT

01 DEMAND.NO PIC 9(5) 01 DEMAND.DATE PIC 9(6)

01 QUANTITY.ORDER PIC 9(7) V999

01 CUSTOMER.CODE PIC 9(6)

01 TOTAL.PRICE PIC 9(11) V99

01 PROD.PRIORITY PIC 9(4)

01 B TYPE BINARY

01 SHIPMENT OCCURS B TIMES

02 DATE PIC 9(6) 02 QUANTITY PIC 9(7) V99 RECORD NAME IS SELL.P
LOCATION MODE CALC PROC-SELLP USING DELIVERY.DATE,
CUSTOMER.CODE
DUPLICATES ARE ALLOWED

WITHIN PATNT

01	DELIVERY.DATE	PIC	9(6)
01	DELIVER.QUANTITY		9(7)V999
01	TOTAL.PRICE		9(11)V99
01	TOTAL.COST		9(11)V99
01	CUSTOMER.CODE		9(6)

RECORD NAME IS ORDER.PLAN.P LOCATION MODE CALC PROC-OPP USING CONTRACT.NO, SUPPLIER.CODE DUPLICATES ARE NOT ALLOWED

WITHIN PAINT

01 QUANTITY.PLAN PIC 9(5)

01 OP TYPE BINARY

01 ORDER. DETAIL OCCURS OP TIMES

02	CONTRACT.NO	•	PIC	9(5)
02	QUANTITY		PIC	9 (7) V999
02	TOTAL.COST		PIC	9(11)V99
0.2	SUPPLIER CODE		PTC	9(6)

RECORD NAME IS ORDER.REAL.P LOCATION MODE CALC PROC-ORP USING DATE, SUPPLIER.CODE, INVOICE.NO

DUPLICATES ARE NOT ALLOWED

WITHIN PAINT

0T	DAIE	PIC	9(0)
01	INVOICE.NO	. PIC	9(8)
01	SUPPLIER.CODE	PIC	9(6)
01	QUANTITY.DELIVER	PIC	9(7) V999
01	PRICE, TOTAL	PIC	9(11)V99

RECORD NAME IS QC.TEST.P LOCATION MODE DIRECT TEST.CODE WITHIN PAINT

01	TEST.CODE	PIC 9(4) T	YPE	IS	DATA-BASE-KEY
01	TEST.AMOUNT	PIC 9(7) V999			
01	RESULT	PIC 9(8)	· .		•

RECORD NAME IS TEST. DATA.P LOCATION MODE SYSTEM WITHIN PAINT

TEST.CODE TEST.NAME 01 PIC 9(4) TYPE IS DATA-BASE-KEY

01 PIC X(20)

01 NORMAL.LIMITS

> 02 UPPER PIC 9(8) LOWER 02 PIC 9(8)

RECORD NAME IS SUPPLY.PLAN.P LOCATION MODE CALC PROC-SUPPLANP USING DEPT.CODE DUPLICATES ARE NOT ALLOWED WITHIN PAINT

DEPT.CODE 01 PIC 9(2)

QUANTITY.PLAN PIC 9(7) V999 01

01 MP TYPE BINARY

DEMAND OCCURS MP TIMES 01

> PIC 9(7) V999 02 QUANTITY PIC 9(6) 02 DATE

RECORD NAME IS PRODUCTION.PLAN.P LOCATION MODE CALC PROC-PRODPLANP USING DEPT.CODE DUPLICATES ARE NOT ALLOWED WITHIN PAINT

PIC 9(7) V999 01 QUANTITY.PLAN PIC 9(11) V99 TOTAL.COST 01 01 DEPT.CODE PIC 9(2)

RECORD NAME IS SUPPLY. REAL.P LOCATION MODE CALC PROC-SUPREAL USING DATE, DEPT.CODE DUPLICATES ARE NOT ALLOWED WITHIN PAINT

01 DATE PIC 9(6) PIC 9(2) DEPT.CODE ROLL.NO ROLL.NO PIC 9(2)
QUANTITY.GIVEN PIC 9(7) V999
TOTAL.COST PIC 9(11) 01 01 01 01

RECORD NAME IS PRODUCTION. REAL. P. LOCATION MODE CALC PROC-PRODREALP USING DATE, DEPT. CODE DUPLICATES ARE NOT ALLOWED WITHIN PAINT

DATE 01 PIC 9(6) ROLL.NO 01 PIC 9(6) PIC 9(2)

01 DEPARTMENT.CODE 01 QUANTITY.IN 01 TOTAL.COST PIC 9(7) V999 PIC 9(11) V99

RECORD NAME IS RECIPE LOCATION MODE SYSTEM WITHIN PAINT

01 RECIPE.NO PIC 9(5) TYPE IS DATA-BASE-KEY

RECIPE.NAME 01 PIC X(20)

RESULT.PRODUCT 01

> 02 CODE PIC 9(9) PIC X(25) 02 NAME 02 UNIT PIC X(2)02 UNIT.COST PIC 9(11) V99

RECORD NAME IS PRODUCTION. PHASE LOCATION MODE VIA RECPP SET WITHIN PAINT

DEPT.CODE 01 PIC 99

01 PROCESS.CODE PIC 9(5) 01 PROCESS.NAME PIC X(25)

01 Q TYPE BINARY

RESULT PRODUCT OCCURS Q TIMES 01

> 02 CODE PIC 9(9) 02 UNIT.COST PIC 9(11) V99

DURATION.PROCESS PIC 9(6) 01

01 TEST.INDEX PIC 9 PIC 9 01 INFO.INDEX

01 LOSS.PERCENTAGE PIC 99

RECORD NAME IS MATERIAL USAGE LOCATION MODE VIA PPMAT SET WITHIN PAINT

PIC 9(9) 01 MATERIAL.CODE

01 QUAN.PER.PROD PIC 9(7) V999 RECORD NAME IS MANPOWER.USAGE LOCATION MODE VIA PPMAN SET WITHIN PAINT

01 MANPOWER.TYPE PIC 9999 01 UNIT.PROD.TIME PIC 9(6) 01 NO.OF.MAN PIC 9(6)

01 UNIT.TIME.COST PIC 9(11) V99

RECORD NAME IS MACHINE.USAGE LOCATION MODE VIA PPMAN SET WITHIN PAINT

01 MANPOWER.TYPE PIC 9999 01 UNIT.PROD.TIME PIC 9(6) 01 NO.OF.MAN PIC 9(6)

01 UNIT.TIME.COST PIC 9(11) V99

RECORD NAME IS MACHINE.USAGE LOCATION MODE VIA PPMAC SET WITHIN PAINT

01 MACHINE.CODE PIC 9(5) 01 TIME.PER.PROD PIC 9(6)

01 UNIT.TIME.COST PIC 9(11) V99

01 TM TYPE BINARY

01 ENERGY OCCURS TM TIMES

02 TYPE PIC 999 02 USAGE.PER.PROD PIC 9(6) 02 UNIT.COST PIC 9(11) V99

RECORD NAME IS Q.CONTROL LOCATION MODE DIRECT TEST.CODE WITHIN PAINT

01 TEST.CODE PIC 9999 TYPE IS DATA-BASE-KEY

01 TEST.NAME PIC X(20)

01 NORMAL.LIMITS

02 UPPER PIC 9(8) 02 LOWER PIC 9(8)

RECORD NAME IS MONTH.X LOCATION MODE CALC PROC-MX USING YEAR, MONTH DUPLICATES ARE NOT ALLOWED WITHIN PAINT

01 YEAR PIC 99 01 MONTH PIC 99

```
RECORD NAME IS QC.RESULTS LOCATION MODE DIRECT JOB.NO WITHIN PAINT
```

01 JOB.NO PIC 9(5) TYPE IS DATA-BASE-KEY PIC 9(7) V999

01 ACTUAL.RESULT PIC 9(8)
01 DATE PIC 9(6)
01 HOUR PIC 9999

RECORD NAME IS QC.INFO LOCATION MODE VIA QCQCI SET WITHIN PAINT

01 UPPER.LIMIT PIC 9(8)

01 LOWER.LIMIT PIC 9(8)

01 INFO.PROCESS.CODE PIC 9(5)

01 INFORMATION PIC X(20)

01 NI TYPE BINARY

01 MATL.ADDED OCCURS NIT TIMES

02 CODE PIC 9(9)

02 QUANTITY PIC 9(7) V999

RECORD NAME IS QC.STATISTICS LOCATION MODE SYSTEM WITHIN PAINT

01 TEST.CODE PIC 9(4) TYPE IS DATA-BASE-KEY

01 MONTH PIC 99

01 TOTAL.QUAN.TESTED PIC 9(7) V999

01 ACTUAL.RESULTS

02 MAX PIC 9(8) 02 AVERAGE PIC 9(8) 02 MIN PIC 9(8)

RECORD NAME IS W.I.P LOCATION MODE VIA PPWIP SET WITHIN PAINT

01 JOB.NO PIC 9(5)

01 PRODUCT.CODE PIC 9(9) 01 QUANTITY PIC 9(7)V999

01 CUSTOMER.CODE PIC 9(6)

01 ACTUAL.COSTS

 02
 MATERIAL
 PIC 9(11) V99

 02
 MANPOWER
 PIC 9(11) V99

 02
 ENERGY
 PIC 9(11) V99

 02
 MACHINE
 PIC 9(11) V99

```
RECORD NAME IS IMPORT.LICENSE.P
LOCATION MODE SYSTEM
WITHIN PAINT
```

```
01
    FILE.NO
                        PIC 9(10)
                                     TYPE IS DATA-BASE-KEY
                        PIC 9(6)
01
    CERTIF. DATE
01
    CERTIF.NO
                        PIC 9(15)
01
    IMPORT. TYPE
                        PIC 9(7)
                        PIC X(5)
01
    CURRENCY. TYPE
                        PIC 9(11) V99
01
    MONETRY. VALUE
01
    DEPOSIT.PERCENT
                        PIC 99
01
    DEPOSIT. VALUE
                        PIC 9(11) V99
01
    DEPOSIT. DATE
                        PIC 9(6)
                        PIC X(10)
01
    DEPOSIT.BANK
01
    LICENSE. DATE
                        PIC 9(6)
                        PIC 9(15)
01
    LICENSE.NO
01
    VALIDITY
                        PIC 9(6)
01
    BEGIN. DATE
                        PIC 9(6)
                        PIC 9(6)
01
    EXTRA.PERIOD
                        PIC 9(15)
01
    IMPORT.BANK.REF
01
    IMPORT.BANK.CODE
                        PIC 9(10)
```

### RECORD NAME IS LICENSE.DETAIL.P LOCATION MODE DIRECT MATL.CODE WITHIN PAINT

01	MATL.CODE	PIC	9(9)	TYPE	IS	DATA-BASE-KEY
01	MATL.NAME	PIC	X(25)			
01	QUOTA.QUAN	PIC	9(7) V99	9		•
01	QUOTA. VALUE	PIC	9(11)V	99		

DIC O(R)

RECORD NAME IS IMPORT.PREP.P LOCATION MODE VIA LDIPP SET WITHIN PAINT

#### PROFORM. INVOICE 01 NΩ

0.2

	UZ NO		PIC 9(0)
	02 DATE		PIC 9(6)
	02 FIRM.CODE		PIC 9(6)
	02 QUANTITY		PIC 9(7) V999
	02 VALUE		PIC 9(11)V99
01 01 01	CORRESPND.BANK INTERMDT.BANK LETTER.CREDIT	PIC X(10) PIC X(10)	
-	02 OPEN DATE		PIC 9(6)
	II OPEN HATE		P11. 91111

02 OPEN DATE PIC 9(6) 02 VALIDITY PIC 9(11)V99 02 AMOUNT

```
01
    COUNTRY
                       PIC X(10)
01
    EXPLANATION
                       PIC X(40)
    TARIF.NO
01
                       PIC 9(15)
01
    TAX.PERCENT
                       PIC 99
RECORD NAME IS IMPORT. REAL.P
LOCATION MODE VIA LDIRP SET
WITHIN PAINT
    IMPORT.DATE
01
                       PIC 9(6)
                       PIC 9(5)
01
    EXCHANGE.RATE
                       PIC 9(6)
   CUSTM. ARRIV. DATE
01
01
    TRANSP.TYPE
                       PIC X(10)
    TRANSP.FIRM
01
                       PIC X(10)
    INSURANCE.COST
01
                       PIC 9(11) V99
                       PIC 9(11) V99
01
    FREIGHT.COST
01
    QUANTITY
                       PIC 9(7) V999
    TOTAL.PRICE
01
                       PIC 9(11) V99
01
    TRANS FER
    02
        DATE
                                  PIC 9(6)
    02
                                  PIC 9(15)
        NO
    02
        EXCHANGE. RATE
                                  PIC 9(5)
01
    INSURANCE. POLICY
    02
        FIRM
                                  PIC X(10)
    02
        DATE
                                  PIC 9(6)
                                  PIC 9(15)
    02
        NO
01
    REGISTRATION
    02
        DATE
                                  PIC 9(6)
    02
        NO
                                  PIC 9 (15)
    02
        EXCHANGE.RATE
                                  PIC 9(5)
01
    CUSTOM. TAX
    02
        PAYM. DATE
                                  PIC 9(6)
                                  PIC 9(15)
    02
        PAYM.NO
    02
                                  PIC 9(11) V99
        AMOUNT
                      PIC X(40)
01
    EXPLANATION
                       PIC 9(8)
01
    INVOICE.NO
RECORD NAME CERTF. DEPOSIT.P
LOCATION MODE SYSTEM
WITHIN PAINT
                                    TYPE IS DATA-BASE-KEY
    BANK.CODE
                       PIC 9(10)
01
01
    VALUE
                       PIC 9(11) V99
    CURRENCY. TYPE
                       PIC X(5)
01
01
    VALIDITY
                       PIC 9(6)
                       PIC 9(6)
01
    BEGIN. DATE
```

RECORD NAME IS PL.FORMAT.P LOCATION MODE VIA PRPFP SET WITHIN PAINT

01 LINE.NO PIC 99 01 ASST.LIABLTY PIC A 01 TITLE PIC X(35

01 TITLE PIC X(35) 01 UNDERLINE PIC A

01 COLUMN.NO PIC 999

01 AMOUNT PIC 9(11) V99

RECORD NAME IS PL.ACCOUNT.P LOCATION MODE DIRECT LINE.NO WITHIN PAINT

01 LINE.NO PIC 99 TYPE IS DATA-BASE-KEY

01 TITLE PIC X(35) 01 COLUMN.NO PIC 999

01 AMOUNT PIC 9(11) V99

RECORD NAME IS BUDGET.DATE.P LOCATION MODE SYSTEM WITHIN PAINT

01 YEAR PIC 99 TYPE IS DATA-BASE-KEY

01 MONTH PIC 99

RECORD NAME IS BUDGET.TOTAL.P LOCATION MODE DIRECT ACCOUNT.NO WITHIN PAINT

01 ACCOUNT.NO PIC 9(6) TYPE IS DATA-BASE-KEY

01 ACCOUNT.NAME PIC X(20)
01 BUDGET.AMOUNT PIC 9(11)V99
01 REAL.AMOUNT PIC 9(11)V99

RECORD NAME IS BUDGET.LEVEL.I.P
LOCATION MODE CALC PROC-BUDLEV USING LEVEL.NO
DUPLICATES ARE ALLOWED
WITHIN PAINT

01 LEVEL.NO PIC 9999

01 BUDAC TYPE BINARY

01 ACCOUNT OCCURS BUDAC TIMES

 02
 ACCOUNT.NO
 PIC 9(6)

 02
 ACCOUNT.NAME
 PIC X(20)

 02
 BUDGET.AMOUNT
 PIC 9(11) V99

 02
 REAL.AMOUNT
 PIC 9(11) V99

RECORD NAME IS BUDGET.LEVEL.Z.P LOCATION MODE CALC PROC-BUDLEV USING LEVEL.NO DUPLICATES ARE ALLOWED

WITHIN PAINT

01 LEVEL.NO PIC 9999

01 BUDAC TYPE BINARY

01 ACCOUNT OCCURS BUDAC TIMES

02	ACCOUNT.NO	PIC 9(6)
02	ACCOUNT.NAME	PIC X(20)
02	BUDGET. AMOUNT	PIC 9(11)V99
02	REAL.AMOUNT	PIC 9(11(V99

RECORD NAME IS CREDIT.P LOCATION MODE SYSTEM WITHIN PAINT

01	CERTIFCT.NO	PIC	9(15)	TYPE	IS	DATA-BASE-KEY
01	RECEIV.DATE	PIC	9(6)		•	
01	CREDIT.TYPE	PIC	X(8)			
01	EXPLANATION	PIC	X(40)			
01	LIMIT.VALUE	PIC	9(11)V99	)		
01	VALIDITY	PIC	9(6)			
01	CURRENCY.TYPE	PIC	X(5)			
01	REF.NO	PIC	9(15)			• •
01	DUR TYPE BINARY		• •			
01	INTEREST OCCURS	DUR T	MES			

02 INTEREST.RATE PIC 99 02 INTRST.RATE.DATE PIC 9(6)

RECORD NAME IS CREDIT.GET.P LOCATION MODE DIRECT DATE WITHIN PAINT

01	DATE	PIC	9(6)	TYPE	IS	DATA-BASE-KEY
01	AMOUNT	PIC	9(11) V	99		
01	EXPLANATION	PIC	X(40)			

RECORD NAME IS CREDIT.PAY.P LOCATION MODE DIRECT DATE WITHIN PAINT

01	DATE	PIC	9(6)	TYPE	IS	DATA-BASE-KEY
01	AMOUNT		9(11)		1	•
01	EXPLANATION	PIC	X(40)			*

RECORD NAME IS PAYABLES, P LOCATION MODE DIRECT TYPE, PAYABLE WITHIN PAINT

```
O1 TYPE.PAYABLE PIC 999 TYPE IS DATA-BASE-KEY
O1 CRDITOR PIC X(10)
O1 AMOUNT PIC 9(11) V99
O1 DATE.PLAN PIC 9(6)
O1 DATE.DUE PIC 9(6)
O1 DATE.REAL PIC 9(6)
O1 REFERENCE PIC X(15)
```

RECORD NAME IS RECEIVABLES.P LOCATION MODE DIRECT TYPE.RECEIV WITHIN PAINT

01	TYPE.RECEIV	PIC	9999	TYPE	IS	DATA-BASE-KE	Y
01	DEBITOR	PIC	X(10)				
01	AMOUNT	PIC	9(11)	V99			
01	DATE.PLAN	PIC	9(6)				
01	DATE.DUE	PIC	9(6)				.*
01	DATE.REAL	PIC	9(6)				
01	REFERENCE	PIC	X(15)				
						. 1	

RECORD NAME IS BOND.DETAIL.P
LOCATION MODE CALC PROC-BDH USING ENDORSE.DATE, RECEIV.DATE
DUPLICATES ARE NOT ALLOWED

WITHIN PAINT

01	RECEIV.DATE	PIC 9(6)
01	DEBITOR	PIC X(10)
01	ENDORS.FROM	PIC X(10)
01	ENDORS.TO	PIC X(10)
01	ENDORSE.DATE	PIC 9(6)
01	ROLL.NO	. PIC 9(15)
01	DEBIT.PLACE	PIC X(12)
01.	ENDORSE.REF	PIC 9(15)
01	BANK.REF.NO	PIC 9(15)
01	USAGE.TYPE	PIC X(2)

RECORD NAME IS LEDGER.ACCNT.P LOCATION MODE SYSTEM WITHIN PAINT

01	ACCOUNT.NO	PIC 999 TYPE IS DATA-BASE-KEY
01	ACCOUNT. NAME	PIC X(20)
01	DRCR	PIC A
01	REMAINDER	PIC 9(11) V99

RECORD NAME IS SUBSDR.ACCNT.P LOCATION MODE CALC PROC-ACHP USING ACCOUNT, NO DUPLICATES ARE NOT ALLOWED WITHIN PAINT

01 ACCOUNT.NO PIC 999 01 ACCOUNT.NAME PIC X(20) 01 DRCR PIC A

REMAINDER 01 PIC 9(11) V99

RECORD NAME IS MONTH.H.P LOCATION MODE CALC PROC-ACHP USING YEAR DUPLICATES ARE NOT ALLOWED WITHIN PAINT

01 YEAR PIC 99 PIC 99 01 MONTH

RECORD NAME IS JOURNAL.P LOCATION MODE CALC PROC-ACHP USING DATE DUPLICATES ARE ALLOWED WITHIN PAINT

DATE 01 PIC 9(6) PIC 9(6) PIC A PIC 9(11)V99 TRANSACT.NO DRCR 01 01

AMOUNT 01 EXPLANATION PIC X(40)01

RECORD NAME IS BANKS.P LOCATION MODE SYSTEM WITHIN PAINT

PIC 9(10) 01 TYPE IS DATA-BASE-KEY

BANK.CODE PIC 9(10)
BANK.NAME PIC X(20)
BRANCH.NAME PIC X(20)
BANK.ACCNT.NO PIC 9(15) 01 01

01

01 BACC TYPE BINARY

ACCNT OCCURS BACC TIMES

PIC 9(15) ACCOUNT.TYPE 02 PIC 9(11) V99 02 REMAINDER

RECORD NAME IS DEPT.DATA.P LOCATION MODE SYSTEM WITHIN PAINT

01	DEPT.CODE	PIC	9,9	TYPE	IS	DATA-BASE-KEY
01	DEPT.NAME		X(20			· · · · · · · · · · · · · · · · · · ·

01 USAGE.PERCENTAGES

በ 2	ELECTRICITY	•.	DIC	חח י
02	PPPCIVICILI	•	PI	99
0.2	FUEL		DT	
0 4	LOEF		PIC	99
0.2	MATED		DT	
0.4	WATER		PIC	99

01 NPW TYPE BINARY

01 PRODUCT OCCURS NPW TIMES

02	CODE		PIC 9(9)
02	PROD.TIME	•	PIC 9(6)

RECORD NAME IS DEPT.COST.P LOCATION MODE VIA DDDCP SET WITHIN PAINT

01	YEAR	PIC 99
0.1	MONTH	PTC 99

01 DEPRECIATION PIC 9(11) V99 01 OVERHEAD PIC 9(11) V99

01 GENERAL.COST PIC 9(11) V99

01 NPW TYPE BINARY

01 PRODUCT OCCURS NPW TIMES

02 CODE PIC 9(9) 02 INDIRECT.COST PIC 9(11) V99

RECORD NAME IS MONTH.E.P LOCATION MODE SYSTEM WITHIN PAINT

01 YEAR PIC 99 TYPE IS DATA-BASE-KEY PIC 99

RECORD NAME IS MODEL.COST.P LOCATION MODE VIA MEMCP SET WITHIN PAINT

01 MONTH PIC 99 01 PART.CODE PIC 9(9)

01 AMOUNT.PROD PIC 9(7) V999

01 TOTAL.DIRECT.COST PIC 9(11) V99
01 TOTAL.INDIRECT.COST PIC 9(11) V99

```
RECORD NAME IS PERSONNEL.LIST.P
LOCATION MODE SYSTEM
WITHIN PAINT
    ID.NO
01
                       PIC 9(8)
PIC X(20)
                                    TYPE IS DATA-BASE-KEY
    NAME
01
01
    ADDRESS
                       PIC X(20)
01
    BIRTH.DATE
                       PIC 9(6)
01
    SEX
                       PIC A
01
    ENTER. DATE
                       PIC 9(6)
                       PIC 9(9)
01
    INSURANCE, NO
01
    TAX.NO
                       PIC 9(9)
01
    NATIONALITY
                       PIC 9(2)
01
    INFIRM.CLASS
                       PIC 9
    FL TYPE BINARY
01
    FOR.LANG OCCURS FL TIMES
01
        FOREIGN. LANG
                                  PIC X(10)
01
    FATHER NAME
                       PIC X(10)
01
    MOTHER NAME
                       PIC X(10)
                       PIC X(10)
    BIRTH.PLACE
01
01
    RELIGION
                       PIC X(10)
01
    ID. CARD
    02
        PROVINCE
                                  PIC X(10)
    02
        TOWN
                                  PIC X(10)
                                  PIC X(10)
    02
        DISTRICT
    02
        QUARTER
                                   PIC X(10)
                                  PIC X(6)
    02
        HOUSE
    02
        BINDING
                                  PIC 9(6)
    02
        PAGE
                                  PIC 9(6)
    02
                                  PIC 9(9)
        CARD. NO
RECORD NAME IS EDUCATION.P
LOCATION MODE VIA PERSEDP SET
WITHIN PAINT
01
    SCHOOL NAME
                       PIC X(10)
                       PIC 9(6)
01
    GRADTN.DATE
                       PIC 9(5)
01
    DIPLOME.NO
                       PIC X(10)
01
    FIELD
```

RECORD	NAME	IS	REI	FERENCES.	. P
LOCATIO	OM MO	DE 1	VIA	PERSREFI	SET
WITHIN	PAIN	Γ			
				•	

01	NAME		PIC	X(20)
01	ADDRESS		PIC	X(20)
01	POSITION		PIC	X(10)

RECORD NAME IS EXPERIENCE.P LOCATION MODE VIA PERSEXP SET WITHIN PAINT

01	COMPANY.NAME	PIC X(15)
01	COMPANY.ADDRESS	PIC X(20)
01	POSITION	PIC X(10)
01	LAST.SALARY	PIC 9(11)V99

### RECORD NAME IS PREVIOUS.WORK.P LOCATION MODE VIA PERSPWP SET WITHIN PAINT

01	DEPT.CODE	PIC 99
01	BEGIN. DATE	PIC 9(6)
01	END.DATE	PIC 9(6)
01	POSITION	PIC X(10)
01	SALARY	PIC 9(11)V99
01	GRADES	PIC 9(5)

### RECORD NAME IS FAMILY.INFO.P LOCATION MODE VIA PERSFIP SET WITHIN PAINT

01	MARITAL.STATUS	PIC	AA
01	SPOUSE.NAME	PIC	X(10)
01	SPOUSE.WORK	PIC	X(10)
01	CHLD TYPE BINARY		

01 CHILD OCCURS CHLD TIMES

02	CHILD.NAME	PIC	X(10)
02	CH.BIRTH.DATE	 PIC	9(6)
02	EDUCATION	PIC	99
02	MARITAL STAT.	PIC	99

### RECORD NAME IS ACTUAL.WORK.P LOCATION MODE VIA PERSAWP SET WITHIN PAINT

01	DEPT.CODE	PIC 99
01	ENTER.DATE	PIC 9(6)
01	POSITION	PIC X(10)
01	SALARY	PIC 9(11) V99
01	GRADE	PIC 9(5)
01	NEXT.LEAVE.DATE	PIC 9(6)
01	NEXT.LEAVE.DATE	PIC 9(6)
01	LVE TYPE BINARY	
01	LEAVE OCCURS LVE	TIMES
	02 PAST IFAVE DA	ATE PIC

02	PAST.LEAVE.DATE	PIC 9(6)
02	PAST.RETRN.DATE	PIC 9(6)

RECORD NAME IS PAY.ROLL.P LOCATION MODE VIA PERSPRP WITHIN PAINT

```
01
    MONTH
                        PIC 99
01
    YEAR
                        PIC 99
01
    WORK. DAY. TOTAL
                        PIC 99
01
    ANNUAL.LEAVE.TIME PIC 999
01
    COMPELG.TIME
                        PIC 999
01
    WEEKLY.LEAVE.TIME PIC 9(5)
01
    OTHER. LEAVE. TIME
                        PIC 9(5)
01
                        PIC 9(5)
    HOLIDAY. OVERTIME
01
                        PIC 9(5)
    NORMAL. OVERTIME
01
    OVERTIME . PAYMENT
                        PIC 9(11) V99
01
    UNDERTIME.DECREASE PIC 9(11)V99
01
    PREMIUM
                        PIC 9(11) V99
01
    BONUS
                        PIC 9(11) V99
01
    CHLD.PAYMNT
                        PIC 9(11) V99
01
    SENIOR. INDEMN
                        PIC 9(11) V99
01
                        PIC 9(11) V99
    EDUCATION.PAYM
01
    COMBUST. PAYM
                        PIC 9(11) V99
01
    MILITARY.PAYM
                        PIC 9(11) V99
01
    MILITARY. PAYM
                        PIC 9(11) V99
01
    TRAVEL.EXP
                        PIC 9(11) V99
                        PIC 9(11) V99
01
    ENCOURAGE.PAYM
01
                        PIC 9(11) V99
    INCREASE.PREPAYM
01
    PREPAYMENT
                        PIC 9(11) V99
01
                        PIC 9(11) V99
    SPECIAL. DISCOUNT
01
    GENERAL. DISCOUNT
                        PIC 9(11) V99
    EMIGRANT.DISCOUNT PIC 9(11) V99
01
                        PIC 9(11) V99
01
    INFIRM.DISCOUNT
01
    CHILD.DISCOUNT
                        PIC 9(11) V99
01
    EDUCATION.DISCOUNT PIC 9(11) V99
01
    NO. INSURANCE. DAY
                        PIC 99
01
    TAX. CLASS
                        PIC 99
01
    GROSS.INSUR.AMOUNT PIC 9(11) V99
                        PIC 9(11) V99
01
    GROSS.TAX.AMOUNT
    INSURANCE. PREMIUM PIC 9(11) V99
01
                        PIC 9(11) V99
01
    INCOME.TAX
01
    DEDUCTION OCCURS 8 TIMES
                                   PIC 9(11) V99
    02
         DEDUC.TYPE
                        PIC 999
    ROUND.OFF.FACTOR
01
    NET. AMOUNT
                        PIC 9(11) V99
01
```

RECORD NAME IS DEPT.STATISTICS.P LOCATION MODE SYSTEM WITHIN PAINT

01 DEPT.CODE PIC 99 TYPE IS DATA-BASE-KEY

01 DEPT.NAME PIC X(20) 01 NO.EMPLOYEE PIC 9(5)

01 NO.EMPLOYEE PIC 9(5) 01 NO.DIRECT.WORKER PIC 9(5)

01 NO. INDRCT. WORKER PIC 9(5)

01 EMPLOYEE.PAYMNTS PIC 9(11) V99

01 DIRECT.WORK.PAYMNT PIC 9(11) V99

01 INDRCT.WORK.PAYMNT PIC 9(11) V99

RECORD NAME IS EXEMPTION.P LOCATION MODE SYSTEM WITHIN PAINT

01 EXEMPT. TYPE PIC 99 TYPE IS DATA-BASE-KEY

01 AMOUNT PIC 9(11) V99

01 INSUR.EXEMP.RATE PIC 999

01 TAX.EXEMP.RATE PIC 999

RECORD NAME IS TAX.RATE.P LOCATION MODE SYSTEM WITHIN PAINT

01 UPPER.LIMIT PIC 9(11) V99 TYPE IS DATA-BASE-KEY

01 TAX.PERCENTAGE PIC 99

RECORD NAME IS MONTH.F.P LOCATION MODE DIRECT MONTH WITHIN PAINT

01 MONTH PIC 99 TYPE IS DATA-BASE-KEY

RECORD NAME IS PLAN.REAL.P LOCATION MODE VIA MFPRP SET WITHIN PAINT

01	WORKER.TYPE	PIC 99
01	PLAN.MAN.HOUR	PIC 9(8)
01	PLAN.MAN	PIC 9(5)
01	REAL MAN HOUR	PIC 9(8)
01	REAL, MAN	PIC 9(5)

01 PLAN.SALARY PIC 9(11) V99

01 REAL.SALARY PIC 9(11)V99

```
RECORD NAME IS MACHINE.LIST.P
LOCATION MODE SYSTEM
WITHIN PAINT
01
    MACHINE.CODE
                      PIC 9(9)
                                  TYPE IS DATA-BASE-KEY
01
    MACHINE.NAME
                      PIC X(20)
01
    MANUFACT.NAME
                      PIC X(20)
01
    MANUFACT. ADDRESS
                      PIC X(20)
01
    DELIVER. DATE
                      PIC 9(6)
                      PIC 9(11) V99
01
    PRICE
01
    CODE.OF.MANUFT
                      PIC 9(9)
                      PIC 9(12)
01
    CAPACITY
    PWT TYPE BINARY
01
    POWER OCCURS PWT TIMES
01
    02
        TYPE
                                 PIC 9(3)
    02
        WORK . CONSUMP
                                 PIC 9(12)
    02
        IDLE.CONSUMP
                                 PIC 9(12)
01
    GUARANTEE.PERIOD PIC 9(6)
                      PIC 9(6)
01
    AVRG.LIFE
01
    DEPR. RATE
                      PIC 999
0.1
    USAGE.INFO
                      PIC X(13)
RECORD NAME IS MONTH.G.P
LOCATION MODE DIRECT YEAR
WITHIN PAINT
01
    YEAR
                      PIC 99
                                TYPE IS DATA-BASE-KEY
01
    MONTH
                      PIC 00
RECORD NAME IS MACH.PLAN.REAL.P
LOCATION MODE DIRECT PLAN.BEGIN.DATE
WITHIN PAINT
    PART.CODE
                      PIC 9(9)
01
01
    ENTER. DATE
                      PIC 9(6)
                      PIC 9(6)
                                  TYPE IS DATA-BASE-KEY
01
    PLAN.BEGIN.DATE
01
                      PIC 9(6)
    PLAN.END.DATE
01
    CONFIRMATION
                      PIC 9(2)
    REAL.BEGIN.DATE PIC 9(6)
01
```

PIC 9(6)

REAL.END.DATE

RECORD NAME IS FAILURE.P LOCATION MODE VIA MLFAILP SET WITHIN PAINT 01 BREAK.DATE PIC 9(6) REPAIR.DATE 01 PIC 9(6) 01 Q TYPE BINARY 01 PC.REPLACED OCCURS Q TIMES 0.2 PART, CODE PIC 9(9) 01 FIRM. REPAIR PIC X(10) 01 EXPLANATION PIC X(40)RECORD NAME IS MAINT. DETAIL.P LOCATION MODE VIA MLMDTLP SET WITHIN PAINT MAINT.DATE 01 PIC 9(6) 01 Q TYPE BINARY 01 REPLACEMENT OCCURS Q TIMES PIC 9(9) 02 PART.CODE PIC X(10) 01 FIRM. MAINT RECORD NAME IS MAINT.PLAN.P LOCATION MODE VIA MLMPLNP SET WITHIN PAINT SUBPART.CODE 01 PIC 9(9) 01 MNT TYPE BINARY 01 SUBPART OCCURS MNT TIMES 02 REPAIR.PERIOD PIC 9(6) 02 LAST. REPR. DATE PIC 9(6) PIC X(40) 0.2 REPAIR. INFO RECORD NAME IS SPARE.PARTS.P LOCATION MODE SYSTEM WITHIN PAINT PIC 99 01 WAREHOUSE.NO PIC 9(9) TYPE IS DATA-BASE-KEY PART, CODE 01 PIC X(25)01 PART. NAME 01 UNIT PIC 99 PIC 9(11)V99 PIC 9(11)V99 01 QUANT.REMAIN 01 TOTAL.COST PIC 9(7) V999 01 MIN.STOCK.LEV

PIC 9(7) V999

PIC 9(7) V999

PIC 9(7) V999

01

01

01

MAX.STOCK.LEV

R.O.P

R.O.Q.

RECORD NAME IS DEMAND.SUPPLY.P LOCATION MODE VIA SPDSPLP SET WITHIN PAINT

01 DEMAND. DATE PIC 9(6) DEMAND.QUAN 01 PIC 9(7) V999 01 DEMAND. DEPT PIC 99 01 MACH.CODE PIC 9(9) 01 SUPPLY DATE PIC 9(6) SUPPLY QUAN 01 PIC 9(7) V999 01 PIC 9(8) ROLL.NO 01 COST PIC 9(11) V99

RECORD NAME IS R.N.P LOCATION MODE VIA SUPLRNP SET WITHIN PAINT

01 PRICE PIC 9(11) V99 01 QUOTA PIC 9(7) V999

RECORD NAME IS SUPPLIER.MACH.P LOCATION MODE SYSTEM WITHIN PAINT

01 SUPPLIER.CODE PIC 9(6) TYPE IS DATA-BASE-KEY 01 SUPPLIER.NAME PIC X(20) 01 SUPPLIER.ADDRESS PIC X(20) 01 INFORMATION PIC X(40)

RECORD NAME IS ORDER.SHIP.P
LOCATION MODE CALC PROC-OSP USING ORDER.DATE,
SUPPLIER.CODE
DUPLICATES ARE NOT ALLOWED
WITHIN PAINT

01 ORDER. DATE PIC 9(6) ORDER.QUAN 01 PIC 9(7)V999 PIC 9(6) 01 SUPPLIER. CODE DELIVERY.DATE PIC 9(6) .01 PIC 9(7) V999 DELIVERY QUAN 01 01 INVOICE.NO PIC 9(8) PIC 9(11) V99 01 PRICE

RECORD NAME IS FIXED.ASSETS.P LOCATION MODE SYSTEM WITHIN PAINT

O1 CODE PIC 9(9) TYPE I	S DATA-BASE-KEY
01 NAME PIC $\chi(20)$	
01 PURCHASE.DATE PIC 9(6)	
01 INITIAL.PRICE PIC 9(11) V99	
01 DEPR.RATE PIC 999	•
01 DEPT.USING PIC 99	•

RECORD NAME IS WAREHOUSE.M LOCATION MODE SYSTEM WITHIN MARKETING

01 WAREHOUSE.NO PIC 99 TYPE IS DATA-BASE-KEY PIC X(15)

RECORD NAME IS PART.ID.M LOCATION MODE SYSTEM WITHIN MARKETING

01	PART.CODE	PIC 9(9)	TYPE IS	DATA-BASE-KEY
01	PART.NAME	PIC X(25)		
01	PART, UNIT	PIC X(2)		

RECORD NAME IS REMAINDER.M LOCATION MODE VIA PIRM SET WITHIN MARKETING

01	QUANTITY	PIC 9(7) V999
01	TOTAL.PRICE	PIC 9(11) V99
01	MIN.STOCK.LEV	PIC 9(7) V999
01	MAX.STOCK.LEV	PIC 9(7)V999
01	R.O.Q.	PIC 9(7)V999
01	R.O.P.	PIC 9(7)V999

RECORD NAME IS R.L.M LOCATION MODE VIA SRLM SET WITHIN MARKETING

01	PRICE	PIC	9 (	(11) V99
01	QUOTA	PIC	9 (	(7) V999

RECORD NAME IS SUPPLIER.M LOCATION MODE SYSTEM WITHIN MARKETING

01 SUPPLIER. CODE PIC 9(6) TYPE IS DATA-BASE-KEY

01 SUPPLIER.NAME PIC X(20)

01 SUPPLIER. ADDRESS PIC X(20) 01 PRODUCTION. CAPACITY PIC 9(7) V99

01 INFORMATION PIC X(40)

RECORD NAME IS DEMAND.P

LOCATION MODE CALC PROC-DEM USING CONTRACT.NO, SUPPLIER.CODE

WITHIN MARKETING

01 CONTRACT.NO PIC 9(5) 01 PART.CODE PIC 9(9)

01 PART.CODE PIC 9(9) 01 SUPPLIER.CODE PIC 9(6)

01 QUANTITY.ORDER PIC 9(7) V999

01 TOTAL.PRICE PIC 9(11) V99

01 K TYPE BINARY

01 DELIVERY OCCURS K TIMES

02 DATE PIC 9(6)

02 QUANTITY PIC 9(7) V99

RECORD NAME IS MONTH.A LOCATION MODE VIA PLMA SET WITHIN MARKETING

01 YEAR PIC 99 01 MONTH PIC 99

RECORD NAME IS DELIVERY.P

LOCATION MODE CALC PROC-DEL USING SUPPLIER. CODE,

DATE, INVOICE. NO WITHIN MARKETING

01 SUPPLIER.CODE PIC 9(6) 01 DATE PIC 9(6)

01 OUANTITY PIC 9(7) V999

01 PRICE PIC 9(11) V99

01 INVOICE.NO PIC 9(8)

01 BACK.INFO PIC 9(9)

RECORD NAME IS OUT.PACK.P LOCATION MODE DIRECT MATERIAL.CODE WITHIN MARKETING

01 DATE PIC 9(6)

01 MATERIAL.CODE PIC 9(9) TYPE IS DATA-BASE-KEY

01 QUANTITY PIC 9(7) V999 01 TOTAL.COST PIC 9(11) V99

RECORD NAME IS IN.PACK.P LOCATION MODE DIRECT MATERIAL.CODE WITHIN MARKETING

01 DATE PIC 9(6)

01 MATERIAL.CODE PIC 9(9) TYPE IS DATA-BASE-KEY

01 TOTAL.COST PIC 9(11)V99 01 QUANTITY PIC 9(7)V999

01 PACK.MATL.INFO

02 CODE PIC 9(9)

02 USE.PER.PROD PIC 9(7) V999 02 UNIT.COST PIC 9(11) V99

RECORD NAME IS CUSTMR.DOMESTIC LOCATION MODE SYSTEM WITHIN MARKETING

01 CUSTOMER.CODE PIC 9(6) TYPE IS DATA-BASE-KEY
01 CUSTOMER.NAME PIC X(20)
01 ADDRESS PIC X(20)
01 QUOTA PIC 9(10)
01 INFORMATION PIC X(40)

RECORD NAME IS ORDER.CUSTOMER
LOCATION MODE CALC PROC-ORCUS USING ORDER.NO, PART.CODE
DUPLICATES ARE NOT ALLOWED
WITHIN MARKETING

01 ORDER.NO PIC 9(6) 01 PART.CODE PIC 9(9)

01 TOTAL.QUANTITY PIC 9(7) V999 01 TOTAL.PRICE PIC 9(11) V99

01 PRIORITY PIC 9999

01 K TYPE BINARY

01 DELIVERY.PLAN OCCURS K TIMES

02 QUANTITY PIC 9(7) V999 02 PRICE PIC 9(11) V99 02 DATE PIC 9(6) RECORD NAME IS MONTH.C LOCATION MODE DIRECT YEAR WITHIN MARKETING

01 YEAR PIC 99 TYPE IS DATA-BASE-KEY

01 MONTH PIC 99

RECORD NAME IS DOMESTIC.SELLS
LOCATION MODE CALC PROC-DOMSEL USING DELIVERY.DATE,
PART.CODE, INVOICE.NO
WITHIN MARKETING

PART.CODE PIC 9(9) 01 PIC 9(6) 01 DELIVERY.DATE PIC 9(7) V999 01 QUANTITY PIC 9(11) V99 01 PRICE PIC 99 01 MATL ORIGIN PIC X(10) 01 DELIVERY.PLACE PIC AÀ 01 PAYMENT.TYPE PIC 9(8) 01 INVOICE.NO 01 INVOICE.DATE PIC 9(6) PIC 9(9) 01 BACK DISCOUNT PIC 9(11) V99 01

RECORD NAME IS MONTH.D LOCATION MODE DIRECT YEAR WITHIN MARKETING

01 YEAR PIC 99 TYPE IS DIRECT.YEAR PIC 99

RECORD NAME IS CUSTOMER.EXPORT LOCATION MODE SYSTEM WITHIN MARKETING

PIC. 9(6) TYPE IS DATA-BASE-KEY CUSTOMER.CODE 01 CUSTOMER. NAME PIC X(20) 01 PIC X(20)01 ADDRESS PIC 9(7) V999 QUOTA 01 PIC X(40).01 INFORMATION

```
RECORD NAME IS ORDER. EXPORT
LOCATION MODE CALC PROC-OREX USING PART.CODE, ORDER.NO
    DUPLICATES ARE NOT ALLOWED
WITHIN MARKETING
```

01 PART.CODE PIC 9(9) PIC 9(6) 01 ORDER.NO 01 TOTAL.QUANTITY PIC 9(7) V999

01 TOTAL.PRICE PIC 9(11) V99 PIC 9999

01 PRIORITY

01 K TYPE BINARY

01 DELIVERY, PLAN OCCURS K TIMES

> OUANTITY 02 PIC 9(7) V999 PIC 9(11) V99 02 PRICE 02 DATE PIC 9(6) 02 CONFIRMATION PIC X(2)02 PIC X(2) L.CREDIT

RECORD NAME IS EXPORT. REAL LOCATION MODE CALC PROC-EXSEL USING INVOICE.DATE, INVOICE.NO, PART.CODE DUPLICATES ARE NOT ALLOWED

WITHIN MARKETING

PART.CODE 01 PIC 9(9) 01 INVOICE.NO PIC 9(8) 01 INVOICE.DATE PIC 9(6) PIC 9(7)V999 01 QUANTITY PIC 9(11) V99 01 PRICE PIC 99 0.1 MATL.ORIGIN PAYMENT. TYPE 01 PIC AA

RECORD NAME IS REPRESENTATIVE LOCATION MODE SYSTEM WITHIN MARKETING

PIC 9(6) TYPE IS DATA-BASE-KEY 01 REPRS.CODE REPRS. NAME PIC X(20) 01 PIC X(20) REPRS. ADDRESS 01 PIC 9(7) V999 01 QUOTA PIC X(40) 01 INFORMATION

RECORD NAME IS MONTH.E LOCATION MODE DIRECT YEAR WITHIN MARKETING

TYPE IS DATA-BASE-KEY YEAR PIC 99 01 PIC 99 01 MONTH

RECORD NAME IS REPR.REAL
LOCATION MODE CALC PROC-REPSELS USING PART.CODE
DUPLICATES ARE ALLOWED
WITHIN MARKETING

01 PART.CODE PIC 9(9)

01 PLAN

02 QUANTITY PIC 9(7) V999 02 PRICE PIC 9(11) V99

01 REAL

02 QUANTITY PIC 9(7) V999 02 PRICE PIC 9(11) V99

01 QUANTITY.SOLD PIC 9(7) V999 01 SELL.PRICE PIC 9(11) V99 01 COMMISSION PIC 9(11) V99 01 RETURN.QUANT PIC 9(7) V999

RECORD NAME IS PRICE.QUOT LOCATION NAME VIA COMQT SET WITHIN MARKETING

01 PRICE PIC 9(11) V99 01 QUOTA PIC 9(7) V999

RECORD NAME IS COMPETITORS LOCATION MODE SYSTEMS WITHIN MARKETING

01	NAME	PIC X(20)	TYPE	IS	DATA-BASE-KEY
01	ADDRESS	PIC X(20)			
01	FIELD	PIC X(10)			
01	PART.CODE	PIC 9(9)			
01	INFORMATION	PIC X(40)			

RECORD NAME IS IMPORT.LICENCE.M LOCATION MODE SYSTEM WITHIN MARKETING

MITI	IIN MARKETING					
01	FILE.NO	PIC	9(10)	TYPE	IS	DATA-BASE-KEY
01	CERTIF.DATE `	PIC	9(6)	-		
01	CERTIF.NO	PIC	9(15)			
01	IMPORT.TYPE	PIC	9 (7)			
01	CURRENCY. TYPE		X(5)			
01	MONETRY.VALUE		9(11)V99	ı		
01	DEPOSIT.PERCENT	PIC				-
01	DEPOSIT.VALUE	PIC	9(11)V99	1		4 · *
01	DEPOSIT.DATE	PIC	9(6)			•

```
01
    DEPOSIT.BANK
                         PIC X(10)
01
    LICENCE.DATE
                         PIC 9(6)
PIC 9(15)
01
    LICENCE.NO
01
    VALIDITY
                         PIC 9(6)
01
    BEGIN. DATE
                         PIC 9(6)
PIC 9(6)
    EXTRA.PERIOD
01
01
    IMPORT.BANK.REF
                         PIC 9(15)
    IMPORT.BANK.CODE
01
                         PIC 9(10)
```

# RECORD NAME IS LICENCE.DETAIL.M LOCATION MODE DIRECT MATL.CODE WITHIN MARKETING

01	MATL.CODE	PIC 9(9)	TYPE	IS	DATA-BASE-KEY
01	MAT L. NAME	PIC X(25)			
01	QUOTA.QUAN	PIC $9(7)$ V9	99		
01	QUOTA.VALUE	PIC 9(11) V	99		

### RECORD NAME IS IMPORT.PREP.M LOCATION MODE VIA LDIP.M SET WITHIN MARKETING

### 01 PROFORM.INVOICE

	02 NO 02 DATE 02 FIRM.CODE 02 QUANTITY 02 VALUE		PIC PIC PIC	9(8) 9(6) 9(6) 9(7)V999 9(11)V99
01 01 01	CORRESPND.BANK INTERMDT.BANK LETTER.CREDIT	PIC X(10) PIC X(10)		
	02 OPEN DATE		PTC	9(6)

		VALIDITY AMOUNT	· •		9(6) 9(11)V99
Λ1	COII	אייי DV	DIC Y(10)	١	

01	COUNT RY	PIC	X(10)
01	EXPLANATION	PIC	X(40)
01	TARIF.NO	PIC	9(15)
01	TAX PERCENT	PTC	99

```
RECORD NAME IS IMPORT. REAL. M
LOCATION MODE VIA LDIR, M SET
WITHIN MARKETING
01
    IMPORT.DATE
                        PIC 9(6)
                        PIC 9(5)
01
    EXCHANGE . RATE
01
    CUSTM. ARRIV. DATE
                        PIC 9(6)
01
    TRANSP.TYPE
                        PIC X(10)
01
    TRANSP.FIRM
                        PIC X(10)
01
    TRANSP.FIRM
                        PIC X(10)
01
    INSURANCE.COST
                        PIC 9(11) V99
    FREIGHT.COST
01
                        PIC 9(11) V99
01
    QUANTITY
                        PIC 9(7) V999
    TOTAL.PRICE
01
                        PIC 9(11) V99
01
    TRANSFER
    02
        DATE
                                   PIC 9(6)
    02
        NO
                                   PIC 9(15)
    02
        EXCHANGE. RATE
                                   PIC 9(5)
01
    INSURANCE. POLICY
    02
         FIRM
                                   PIC X(10)
    02
        DATE
                                   PIC 9(6)
    02
        NO
                                   PIC 9(15)
01
    REGISTRATION
    02
        DATE
                                   PIC 9(6)
    02
                                   PIC 9(15)
        NO
    02
        EXCHANGE. RATE
                                   PIC 9(5)
01
    CUSTOM, TAX
    02
        PAYM. DATE
                                   PIC 9(6)
    02
                                   PIC 9(15)
        PAYM.NO
                                   PIC 9(11) V99
    02
        AMOUNT
    EXPLANATION
                        PIC X(40)
01
                        PIC 9(8)
01
    INVOICE.NO
RECORD NAME CERTF. DEPOSIT.M
LOCATION MODE SYSTEM
WITHIN MARKETING
                        PIC 9(10)
                                     TYPE IS DATA-BASE-KEY.
01
    BANK.CODE
                        PIC 9(11) V99
01
    VALUE
```

PIC X(5) 01 CURRENCY. TYPE PIC 9(6) 01 VALIDITY PIC 9(6) 01 BEGIN. DATE PIC 9(15) 01 CERTF.NO PIC X(20) 01 FIRM. GIVEN PIC 9(6) GIVE.DATE 01 PIC 9(6) 01 BACK.DATE PIC 9(2) 01 INTEREST. RATE

RECORD NAME IS BS.TOTAL.M LOCATION MODE SYSTEM WITHIN MARKETING

01 DATE PIC 9(6) TYPE IS DATA-BASE-KEY

01 VALUE.TOTAL PIC 9(11) V99

RECORD NAME IS BS. FORMAT.M LOCATION MODE VIA BTBFHM SET WITHIN MARKETING

01 LINE.NO PIC 99 ASST.LIABLTY 01 PIC A 01 TITLE PIC X(35) PIC A 01 UNDERLINE 01 PIC 999 COLUMN.NO

01 AMOUNT PIC 9(11) V99

RECORD NAME IS BS.ACCOUNT.M LOCATION MODE DIRECT LINE, NO WITHIN MARKETING

01 LINE PIC 99 TYPE IS DATA-BASE-KEY TITLE

01 PIC X(35) PIC 999 01 COLUMN.NO

PIC 9(11) V99 01 AMOUNT

RECORD NAME IS PL.RESULT.M LOCATION MODE SYSTEM WITHIN MARKETING

PIC 9(6) TYPE IS DATA-BASE-KEY PIC 9(11)V99 01 DATE

01 VALUE.TOTAL

RECORD NAME IS PL. FORMAT.M LOCATION MODE VIA PRPFM SET WITHIN MARKETING

PIC 99 LINE.NO 01 PIC A 01 ASST.LIABLTY PIC X(35) 01 TITLE PIC A 01 UNDERLINE PIC 999 01 COLUMN.NO PIC 9(11)V99 0.1 AMOUNT

RECORD NAME IS PL.ACCOUNT.M LOCATION MODE DIRECT LINE.NO WITHIN MARKETING

01 LINE.NO PIC 99 TYPE IS DATA-BASE-KEY

01 TITLE PIC X(35) 01 COLUMN.NO PIC 999

01 AMOUNT PIC 9(11) V99

RECORD NAME IS BUDGET.DATE.M LOCATION MODE SYSTEM WITHIN MARKETING

01 YEAR PIC 99 TYPE IS DATA-BASE-KEY

01 MONTH PIC 99

RECORD NAME IS BUDGET.TOTAL.M LOCATION MODE DIRECT ACCOUNT.NO WITHIN MARKETING

01 ACCOUNT.NO PIC 9(6) TYPE IS DATA-BASE-KEY

01 ACCOUNT.NAME PIC X(20) 01 BUDGET.AMOUNT PIC 9(11)V99 01 REAL.AMOUNT PIC 9(11)V99

RECORD NAME IS BUDGET.LEVEL.I.M

LOCATION MODE CALC PROC-BUDLEV USING LEVEL.NO

DUPLICATES ARE ALLOWED

WITHIN MARKETING

01 LEVEL.NO PIC 9999

01 BUDAC TYPE BINARY

01 ACCOUNT ACCURS BUDAC TIMES

02 ACCOUNT.NO PIC 9(6)
02 ACCOUNT.NAME PIC X(20)
02 BUDGET.AMOUNT PIC 9(11) V99
02 REAL.AMOUNT PIC 9(11) V99

RECORD NAME IS BUDGET.LEVEL.Z.M
LOCATION MODE CALC PROC-BUDLEV USING LEVEL.NO
W DUPLICATES ARE ALLOWED
WITHIN MARKETING

01 LEVEL.NO PIC 9999

01 BUDAC TYPE BINARY

01 ACCOUNT OCCURS BUDAC TIMES

02 ACCOUNT.NO PIC 9(6)
02 ACCOUNT.NAME PIC X(20)
02 BUDGET.AMOUNT PIC 9(11) V99
02 REAL.AMOUNT PIC 9(11) V99

RECORD NAME IS CREDIT.M LOCATION MODE SYSTEM WITHIN MARKETING

01 CERTIFCT.NO PIC 9(15) TYPE IS DATA-BASE-KEY PIC 9(6) 01 RECEIV. DATE PIC X(8) PIC X(40) 01 CREDIT. TYPE 01 EXPLANATION 01 LIMIT. VALUE PIC 9(11) V99 01 VALIDITY PIC 9(6) CURRENCY. TYPE 01 PIC X(5)REF. NO 01 PIC 9(15) 01 DUR TYPE BINARY INTEREST OCCURS DUR TIMES 01 INTEREST.RATE 02 PIC 99 02 INTRST.RATE.DATE PIC 9(6)

RECORD NAME IS CREDIT.GET.M LOCATION MODE DIRECT DATE WITHIN MARKETING

01 DATE PIC 9(6) TYPE IS DATA-BASE-KEY 01 AMOUNT PIC 9(11)V99 01 EXPLANATION PIC X(40)

RECORD NAME IS CREDIT.PAY.M LOCATION MODE DIRECT DATE WITHIN MARKETING

01 DATE PIC 9(6) TYPE IS DATA-BASE-KEY 01 AMOUNT PIC 9(11) V99 01 EXPLANATION PIC X(40)

RECORD NAME IS PAYABLES.M LOCATION MODE DIRECT TYPE.PAYABLE WITHIN MARKETING

01	TYPE.PAYABLE	PIC	9999	TYPE	18	DATA-BASE-KEY
01	CREDITOR	PIC	X(10)			* • • =
01	AMOUNT	PIC	9(11)\	<i>I</i> 99		
01	DATE.PLAN	PIC	9(6)			
01	DATE.DUE	PIC	9(6)			
01	DATE.REAL	PIC	9(6)			
01	REFERENCE	PIC	X(15)			

RECORD NAME IS RECEIVABLES.M LOCATION MODE DIRECT TYPE.RECEIV WITHIN MARKETING

01	TYPE.RECEIV	PIC 999	9 TYPE	IS	DATA-BASE-KEY
01	DEBITOR	PIC X(1		:	
01	AMOUNT	PIC 9(1			
01	DATE.PLAN	PIC 9(6			
01	DATE.DUE	PIC 9(6	Ì		
01	DATE.REAL	PIC 9(6	)		
01	REFERENCE	PIC X(1			
		•	•		

RECORD NAME IS BOND.DETAIL.M

LOCATION MODE CALC PROC-BDM USING ENDORSE.DATE, RECEIV.DATE

DUPLICATIONS ARE NOT ALLOWED

WITHIN MARKETING

01	RECEIV.DATE	PIC 9(	6)
01	DEBITOR	PIC X(	10)
01	ENDORS.FROM	PIC X	10)
01	ENDORS.TO	PIC X(	10)
01	ENDORS, DATE	PIC 9(	6)
01	ROLL.NO	PIC 9(	15)
01	DEBIT.PLACE	PIC X(	12)
01	ENDORSE.REF	PIC 9(	15)
01	BANK.REF.NO	PIC 9(	15)
01	USAGE.TYPE	PIC X(	12)

RECORD NAME IS LEDGER.ACCNT.M LOCATION MODE SYSTEM WITHIN MARKETING

01	ACCOUNT.NO		PIC	999	TYPE	IS	DATA-BASE	- KEY
01	ACCOUNT.NAME		PIC	X(20)			.*	
01	DRCR		P,I C	Α.				
01	REMAINDER	,	PIC	9(11)V	r99		,	

RECORD NAME IS SUBSDR.ACCNT.M
LOCATION MODE CALC PROC-ACM USING ACCOUNT.NO
DUPLICATES ARE NOT ALLOWED
WITHIN MARKETING

01	ACCOUNT.NO	PIC 99
01	ACCOUNT . NAME	PIC X(20)
01	DRCR	PIC A
01	REMAINDER	PIC 9(11)V99

RECORD NAME IS JOURNAL.ACCNT.M LOCATION MODE CALC PROC-ACM USING ACCOUNT.NO DUPLICATES ARE NOT ALLOWED

WITHIN MARKETING

ACCOUNT . NO 01 PIC 999 PIC X(20) PIC A 01 ACCOUNT NAME 01 DRCR

01 REMAINDER PIC 9(11)V99

RECORD NAME IS MONTH.H.M LOCATION MODE CALC PROC-ACM USING YEAR DUPLICATES ARE NOT ALLOWED WITHIN MARKETING

01. YEAR PIC 99 PIC 99 MONTH 01

RECORD NAME IS JOURNAL.M LOCATION MODE CALC PROC-ACM USING DATE DUPLICATES ARE ALLOWED WITHIN MARKETING

PIC 9(6) 01 DATE PIC 9(6) TRANSACT.NO 01

DRCR AMOUNT 01 PIC A

PIC 9(11) V99 01 EXPLANATION PIC X(40) 01

RECORD NAME IS BNAKS.M LOCATION MODE SYSTEM WITHIN MARKETING

PIC 9(10) TYPE IS DATA-BASE-KEY 01 BANK.CODE

PIC X(20) 01 BANK.NAME BRANCH.NAME 01 PIC X(20)

BANK.ACCNT.NO PIC 9(15) 01

01 BACC TYPE BINARY

ACCNT OCCURS BACC TIMES 01

> 02 ACCOUNT.TYPE PIC 9(15) PIC 9(11)V99 02 REMAINDER

```
RECORD NAME IS LC.EXPORT
LOCATION MODE SYSTEM
WITHIN MARKETING
```

```
01
    OPEN. DATE
                       PIC 9(6)
01
    VALIDITY
                       PIC 9(6)
                       PIC 9(6)
01
    BANK.CODE
                                   TYPE IS DATA-BASE-KEY
01
    REF.NO
                       PIC 9(12)
                       PIC 9(11) V99
01
    AMOUNT
01
    CURRENCY. TYPE
                       PIC X(5)
01
    EXPLANATION
                       PIC X(30)
```

RECORD NAME IS PAYM.PLAN.DOMST LOCATION MODE DIRECT YEAR WITHIN MARKETING

01	YEAR	PIC	99 TYPE	IS	DATA-BASE-KEY
01	MONTH	PIC	99		
01	AMOUNT	PIC	9(11)V99		

RECORD NAME IS SHIPMNT.DETAIL LOCATION MODE DIRECT INVOICE.NO WITHIN MARKETING

02

02

02

NO

DATE

F.O.B.

WITH	IN N	MARKETING							
01	INV	DICE.NO DICE.DATE UNT		9(8) 9(6)	TYI	PE IS	DAT A-	BASE-K	ŒY
	02	F.O.B. C.I.F. MONEY.UNIT	•		PIC	9(11) 9(11) X(5)			
01 01	DOLA INTI CORI EXPO	HANGE.RATE AR.EQVLNT ERMDTE.BANK RESPND.BANK ORT.TYPE NSPORT	PIC PIC PIC				÷		
		FIRM.NAME BILL.LADING.NO	0			X(10) 9(10)			
01	INSU	JRANCE		*					
		FIRM.NAME POLICY.NO				X(10) 9(10)			
01 01		ΓΟΜΒRΟΚΕR I FEST			PIC	X(10)	)		

PIC 9(7)

PIC 9(11) V99

PIC 9(6)

```
02
        C.I.F.
                                  PIC 9(11) V99
    02
        EXCHANGE.RATE
                                  PIC 9(5)
    02
        DOLAR EQVLNT
                                  PIC 9(5)
01
    CREDIT.CERTF.NO
                       PIC 9(15)
01
    CURRENCY.BOND
    02
        NO
                                  PIC X(12)
    02
        DATE
                                  PIC 9(6)
    02
        F.O.B.
                                  PIC 9(11) V99
    02
       C.I.F.
                                  PIC 9(11)V99
    02
        EXCHANGE . RATE
                                 PIC 9(5)
    .02
        DOLAR.EQVLNT
                                 PIC 9(5)
01
    TAX. REFUND
                               PIC 9(6)
    02
        APPLICATION. DATE
        GROSS.AMOUNT
                                 PIC 9(11) V99
    02
    02
        NET . AMOUNT
                                PIC 9(11)V99
    02
        RECEIVE. DATE
                                  PIC 9(6)
RECORD NAME IS PAYM.PLAN.EXP
LOCATION MODE DIRECT YEAR
WITHIN MARKETING
                       PIC 99
                                 TYPE IS DATA-BASE-KEY
01
    YEAR
01
    MONTH
                       PIC 99
    AMOUNT
01
                       PIC 9(11) V99
RECORD NAME IS PERSONNEL.LIST.M
LOCATION MODE SYSTEM
WITHIN MARKETING
                                   TYPE IS DATA-BASE-KEY
                       PIC 9(8)
01
    ID.NO
                       PIC X(20)
    NAME
01
                       PIC X(20)
01
    ADDRESS
                       PIC 9(6)
01
    BIRTH. DATE
01
                       PIC A
    SEX
                       PIC 9(6)
01
    ENTER. DATE
                       PIC 9(9)
0.1
    INSURANCE.NO
                       PIC 9(9)
01
    TAX.NO
01
    NATIONALITY
                       PIC 9(2)
    INFIRM.CLASS
                       PIC 9
01
01
    FL TYPE BINARY
    FOR.LANG. OCCURS FL TIMES
0.1
                                  PIC X(10)
    02
        FOREIGN.LANG
                       PIC X(10)
01
    FATHER.NAME
                       PIC X(10)
    MOTHER.NAME
01
                       PIC X(10)
    BIRTH.PLACE
```

PIC X(10)

01

01

RELIGION

### 01 ID.CARD

02	PROVINCE	PIC X	(10)
02	TOWN	PIC X	
02	DISTRICT	PIC X	
02	QUARTER	PIC X	
02	HOUSE	PIC X	
02	BINDING	PIC 9	
02	PAGE	PIC 9	(6)
02	CARD.NO	PIC 9	7 5

### RECORD NAME IS EDUCATION LOCATION MODE VIA PERSEDM SET WITHIN MARKETING

01	SCHOOL.NAME	PIC	X(10)
01	GRADTN.DATE	PIC	9(6)
01	DIPLOME.NO	PIC	9(5)
01	FIELD	PIC	X(10)

### RECORD NAME IS REFERENCES.M LOCATION MODE VIA PERSREFM SET WITHIN MARKETING

01	NAME	PIC	X(20)
01	ADDRESS	PIC	X(20)
01	POSITION	PIC	X(10)

### RECORD NAME IS EXPERIENCE.M LOCATION MODE VIA PERSEXM SET WITHIN MARKETING

01	COMPANY.NAME	PIC X(15)
01	COMPANY.ADDRESS	PIC X(20)
01	POSITION	PIC X(10)
01	LAST.SALARY	PIC 9(11) V99

# RECORD NAME IS PREVIOUS.WORK.M LOCATION MODE VIA PERSPWM SET WITHIN MARKETING

01	DEPT .CODE	PIC 99
01	BEGIN.DATE	PIC 9(6)
01	END.DATE	PIC 9(6)
01		PIC X(10)
01	SALARY	PIC 9(11) V99
01	GRADES	PIC 9(5)

### RECORD NAME IS FAMILY.INFO.M LOCATION MODE VIA PERSFIM SET WITHIN MARKETING

	ARIT <b>A</b> L.STATUS	PIC	TITE.
01 SI	POUSE.NAME	PIC	X(10)

- SPOUSE .WORK PIC X(10) 01
- 01 CHLD TYPE BINARY
- CHILD OCCURS CHLD TIMES 01

02	CHILD.NAME	PIC	X(10)
02	CH.BIRTH.DATE		9(6)
02	EDUCATION	PIC	99 ′
02	MARITAL.STAT.	PIC	99

### RECORD NAME IS ACTUAL.WORK.M LOCATION MODE VIA PERSAWM SET WITHIN MARKETING

01	DEPT.CODE	PIC 99
01	ENTER.DATE	PIC 9(6)
01	POSITION	PIC X(10)

- 01 SALARY PIC 9(11) V99
- PIC 9(5) PIC 9(6) 01 GRADE
- 01 NEXT.LEAVE.DATE
- NEXT.LEAVE.DATE 01 PIC 9(6)
- LVE TYPE BINARY 01
- 01 LEAVE OCCURS LVE TIMES

02	PAST.LEAVE.DATE	PIC 9(6)
0.2	PAST RETRN DATE	PTC 9(6)

### RECORD NAME IS PAY. ROLL.M LOCATION MODE VIA PERSPRM WITHIN MARKETING

01	MONTH	PIC	99
01	YEAR	PIC	99
01	WORK.DAY.TOTAL	PIC	99
01	ANNUAL.LEAVE.TIME	PIC	999
01	COMPELG. TIME	PIC	999
01	WEEKLY.LEAVE.TIME	PIC	9(5)
01	OTHER.LEAVE.TIME	PIC	9(5)
01	HOLIDAY.OVERTIME	PIC	9(5)
01	NORMAL.OVERTIME	PIC	9(5)
01	OVERTIME.PAYMENT		9(11)V99
0.1	UNDERTIME.DECREASI	E PIO	C 9(11)V99
0.1	PREMIUM	PIC	9(11)V99

- ) V99 PIC 9(11) V99
- 01 BONUS PIC 9(11) V99 CHLD.PAYMNT 01
- 01 SENIOR. INDEMN .PIC 9(11) V99

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01
    EDUCATION.PAYM
                        PIC 9(11) V99
01
    COMBUST.PAYM
                        PIC 9(11) V99
01
                        PIC 9(11) V99
    MILITARY.PAYM
01
    TRAVEL.EXP
                        PIC 9(11) V99
01
    ENCOURAGE, PAYM
                        PIC 9(11) V99
                        PIC 9(11)V99
01
    INCREASE . PREPAYM
01
    PREPAYMENT
                        PIC 9(11) V99
01
    SPECIAL. DISCOUNT
                        PIC 9(11)V99
01
    GENERAL.DISCOUNT
                        PIC 9(11) V99
01
    EMIGRANT. DISCOUNT PIC 9(11) V99
                        PIC 9(11) V99
01
    INFIRM. DISCOUNT
01 CHILD. DISCOUNT
                        PIC 9(11) V99
01
    EDUCATION.DISCOUNT PIC 9(11) V99
01
    NO. INSURANCE. DAY
                        PIC 99
01
    TAX.CLASS
                        PIC 99
01
    GROSS.INSUR.AMOUNT PIC 9(11) V99
01
    INSURANCE.PREMIUM PIC 9(11) V99
01
    INCOME.TAX
                        PIC 9(11) V99
01
    DEDUCTION OCCURS 8 TIMES
    02
        DEDUC. TYPE
                                   PIC 9(11)V99
01
    ROUND.OFF.FACTOR PIC 999
01
    NET . AMOUNT
                        PIC 9(11) V99
```

### RECORD NAME IS DEPT.STATISTICS.M LOCATION MODE SYSTEM WITHIN MARKETING

01	DEPT.CODE	PIC	99	TYPE	IS	DATA-BASE-KEY
01	DEPT.NAME	PIC	X(20)	) .		
01	NO.EMPLOYEE	PIC	9(5)			
01	NO. DIRECT. WORKER	PIC	9 (5)			
	NO.INDRCT.WORKER					
01	EMPLOYEE . PAYMNTS	PIC	9(11)	) V99		
01	DIRECT.WORK.PAYMN	r. PI	09(1	1) V99		-
01	INDRCT.WORK.PAYMN	T PI	0 9(1	1) V99		Market Company of the Company

## RECORD NAME IS EXEMPTION.M LOCATION MODE SYSTEM WITHIN MARKETING

01	EXEMPT.TYPE	PIC	99	TYPE	IS	DATA-B	ASE-KEY
	AMOUNT	PIC	9(11)	) V99			
01	INSUR. EXEMP. RATE	PIC	999				
		PIC					

RECORD NAME IS TAX.RATE.M LOCATION MODE SYSTEM WITHIN MARKETING

01 UPPER.LIMIT PIC 9(11) V99 TYPE IS DATA-BASE-KEY

01 TAX.PERCENTAGE PIC 99

RECORD NAME IS MONTH.F.M LOCATION MODE DIRECT MONTH WITHIN MARKETING

01 MONTH PIC 99 TYPE IS DATA-BASE-KEY

RECORD NAME IS PLAN.REAL.M LOCATION MODE VIA MFPRM SET WITHIN MARKETING

01	WORKER.TYPE	PIC	99
01	PLAN.MAN.HOUR	PIC	9(8)
01	PLAN.MAN	PIC	9(5)
01	REAL.MAN.HOUR	PIC	9(8)
01	REAL.MAN	PIC	9(5)
01	PLAN.SALARY	PIC	9(11)V99
01	REAL, SALARY	PIC	9(11)V99

RECORD NAME IS MACHINE.LIST.M LOCATION MODE SYSTEM WITHIN MARKETING

01	MACHINE, CODE	PIC	9(9)	TYP	E IS	DATA	BASE	KEY
01	MACHINE.NAME	PIC	X(20)			•		
	MANUFACT.NAME							-
	MANUFACT.ADDRESS							
01	DELIVER.DATE	PIC	9(6)			.*		
01	PRICE	PIC	9(11)	V99				-
01	CODE.OF.MANFT	PIC	9(9)					
01	CAPACITY	PIC	9(12)					
01	PWT TYPE BINARY							
01	POWER OCCURS PWT	TIMES	3					
•	02 TVDE			PIC	9(3)		•	
	02 TYPE			DIG		`		

	02	TYPE		PIC 9	
	02	WORK.CONSUMP		PIC 9	
	02	IDLE.CONSUMP		PIC 9	(12)
01	GUA	RANTEE.PERIOD	PIC 9(6)		

01 GUARANTEE.PERIOD PIC 9(6) 01 AVRG.LIFE PIC 9(6) 01 DEPR.RATE PIC 999 01 USAGE.INFO PIC X(13) RECORD NAME IS MONTH.G.M LOCATION MODE DIRECT YEAR WITHIN MARKETING

01 YEAR PIC 99 TYPE IS DATA BASE KEY PIC 99

RECORD NAME IS MACH.PLAN.REAL.M LOCATION MODE DIRECT PLAN.BEGIN.DATE WITHIN MARKETING

01	PART.CODE	PIC 9(9)		·
01	ENTER.DATE	PIC 9(6)		
01	PLAN.BEGIN.DATE	PIC 9(6)	TYPE IS	DATA-BASE-KEY
01	PLAN.END.DATE	PIC 9(6)		
01	CONFIRMATION	PIC 9(2)		
01	REAL.BEGIN.DATE	PIC 9(6)		
01	REAL.END.DATE	PIC 9(6)		•

RECORD NAME IS FAILURE.M LOCATION MODE VIA MLFAILM SET WITHIN MARKETING

01	BREAK DATE	PIC 9(6	)
01	REPAIR.DATE	PIC 9(6	)

01 Q TYPE BINARY

01 PC.REPLACED OCCURS Q TIMES

02 PART.CODE PIC 9(9)
01 FIRM.REPAIR PIC X(10)
01 EXPLANATION PIC X(40)

RECORD NAME IS MAINT.DETAIL.M LOCATION MODE VIA MLMDT.LM SET WITHIN MARKETING

01 MAINT.DATE PIC 9(6)

01 Q TYPE BINARY

01 REPLACEMENT OCCURS Q TIMES

02 PART.CODE PIC 9(9)

01 FIRM.MAINT PIC X(10)

RECORD NAME IS MAINT.PLAN.M LOCATION MODE VIA MLMPLN.M SET WITHIN MARKETING

- 01 SUBPART.CODE PIC 9(9)
- 01 MNT TYPE BINARY
- 01 SUBPART OCCURS MNT TIMES

02	REPAIR.PERIOD	PIC 9(6)
02	LAST.REPR.DATE	PIC 9(6)
02	REPAIR.INFO	PIC $X(40)$

RECORD NAME IS SPARE.PARTS.M LOCATION MODE SYSTEM WITHIN MARKETING

01	WAREHOUSE.NO	PIC	99
01	PART.CODE	PIC	9(9) TYPE IS DATA-BASE-KEY
01	PART.NAME	PIC	X(25)
01	UNIT	PIC	99
	QUANT.REMAIN	PIC	9(7) V999
	TOTAL.COST	PIC	9(11) V99
01	MIN.STOCK.LEV	PIC	9(7)V999
01	MAX.STOCK.LEV	PIC	9(7) V999
01	R.O.P.	PIC	9(7) V999
01	R.O.Q.	PIC	9(7)V999

RECORD NAME IS DEMAND.SUPPLY.M LOCATION MODE VIA SPDSPLM SET WITHIN MARKETING

01	DEMAND. DATE	PIC	9(6)
01	DEMAND.QUAN	PIC	9 (7) V999
01	DEMAND.DEPT	PIC	99
01	MACH.CODE	PIC	9(9)
01	SUPPLY DATE	PIC	9(6)
01	SUPPLY.QUAN	ΡΊC	9(7) V999
01	ROLL.NO	PIC	9(8)
01	COST	PIC	9(11)V99

RECORD NAME IS R.N.M LOCATION MODE VIA SUPLRNM SET WITHIN MARKETING

01	PRICE		PIC	9(11)V99
	OUOTA		PIC	9(7)V999

RECORD NAME IS SUPPLIER.MACH.M LOCATION MODE SYSTEM WITHIN MARKETING

01	SUPPLIER.CODE	PIC 9(6)	TYPE IS DATA-BASE-KEY
01	SUPPLIER.NAME	PIC X(20)	•
01	SUPPLIER. ADDRESS	PIC X(20)	•
01	INFORMATION	PIC X(40)	

RECORD NAME IS ORDER.SHIP.M
LOCATION MODE CALC PROC-OSM USING ORDER.DATE,
SUPPLICER.CODE
DUPLICATES ARE NOT ALLOWED

WITHIN MARKETING

01	ORDER.DATE	PIC 9(6)
01	ORDER.QUAN	PIC 9(7)V999
01	SUPPLIER.CODE	PIC 9(6)
01	DELIVERY.DATE	PIC 9(6)
01	DELIVERY.QUAN	PIC 9(7) V999
01	INVOICE.NO	PIC 9(8)
01	PRICE	PIC 9(11)V99

RECORD NAME IS FIXED.ASSETS.M LOCATION MODE SYSTEM WITHIN MARKETING

01	CODE	PIC	9(9)	TYPE	IS	DATA-BASE-KEY
01	NAME	PIC	X(20)			
01	PURCHASE.DATE		9(6)			
01	INITIAL.PRICE	PIC	9 (11) V	99		
01	DEPR.DATE	PIC	999			
01	DEPT.USING	PIC	99			

### SET NAME IS SYSTBSHC

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS BS.TOTAL.HC
MANDATORY AUTOMATIC
SET SELECTION THRU SYSTBSHC
OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SYSTBSCC

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS BS.TOTAL.CC
MANDATORY AUTOMATIC
SET SELECTION THRU SYSTBSCC
OWNER IDENTIFIED BY SYSTEM

#### SET NAME IS SYSPLHC

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS PL.RESULT.HC
MANDATORY AUTOMATIC
SET SELECTION THRU SYSTPLHC
OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SYSTPLCC

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS PL.RESULT.CC

MANDATORY AUTOMATIC

SET SELECTION THRU SYSTPLCC

OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SYSTBDHC

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS BUDGET.DATE.HC

MANDATORY AUTOMATIC

SET SELECTION THRU SYSTBDHC

OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SYSTBDCC

OWNER IS SYSTEM ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS BUDGET.DATE.CC
MANDATORY AUTOMATIC
SET SELECTION THRU SYSTBDCC
OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSTMMHC

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS MONTH.M.HC
MANDATORY AUTOMATIC
SET SELECTION THRU SYSTMMHC
OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSTMMCC

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS MONTH.M.CC
MANDATORY AUTOMATIC
SET SELECTION THRU SYSTMMCC
OWNER IDENTIFIED BY SYSTEM

#### SET NAME IS SYSTPIHC

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS PERS.INDEX.HC
MANDATORY AUTOMATIC
SET SELECTION THRU SYSTPIHC
OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SYSTPICC

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS PERS.INDEX.CC

MANDATORY AUTOMATIC

SET SELECTION THRU SYSTPICC

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSTBIHC

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS BANK.INDEX.CC
MANDATORY AUTOMATIC
SET SELECTION THRU SYSTBIHC
OWNER IDENTIFIED BY SYSTEM

#### SET NAME IS SYSTBICC

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS BANK.INDEX.CC
MANDATORY AUTOMATIC
SET SELECTION THRU SYSTBICC
OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SYSTMHHC

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS MATERIAL.HOUSE.HC
MANDATORY AUTOMATIC
SET SELECTION THRU SYSTMHHC
OWNER IDENTIFIED BY SYSTEM

#### SET NAME IS SYSTHCC

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS MATERIAL.HOUSE.CC

MANDATORY AUTOMATIC

SET SELECTION THRU SYSTMHCC
OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSTFAHC

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS FIXED ASSETS.HC

MANDATORY AUTOMATIC

SET SELECTION THRU SYSTFAHC

### SET NAME IS SYSTFACC

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS FIXED ASSETS.CC

MANDATORY AUTOMATIC

SET SELECTION THRU SYSTFACC

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SWHCR

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS WAREHOUSE.CR
MANDATORY AUTOMATIC
SET SELECTION THRU SWHCR
OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SPICE

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS PART.ID.CR
MANDATORY AUTOMATIC
SET SELECTION THRU SPICR
OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SSUPCR

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS SUPPLIER.CR
MANDATORY AUTOMATIC
SET SELECTION THRU SSUPCR
OWNER IDENTIFIED BY SYSTEM

#### SET NAME IS SSPDCR

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS PRODUCTION.DATA.CR
MANDATORY AUTOMATIC
SET SELECTION THRU SSPDCR
OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSRCR

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS REGION.CR
MANDATORY AUTOMATIC
SET SELECTION THRU SYSRCR
OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSMBCR

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS MONTH.B.CR
MANDATORY AUTOMATIC
SET SELECTION THRU SYSMBCR
OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SWHM

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS WAREHOUSE.M

MANDATORY AUTOMATIC

SET SELECTION THRU SWHM

OWNER IDENTIFIED BY SYSTEM

#### SET NAME IS SPIDM

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS PART.ID.M

MANDATORY AUTOMATIC

SET SELECTION THRU SPIDM

OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SSUPM

OWNER IS SYSTEM ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS SUPPLIER.M

MANDATORY AUTOMATIC

SET SELECTION THRU SSUPM

OWNER IDENTIFIED BY SYSTEM

#### SET NAME IS SCDM

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS CUSTOMER.DOMESTIC.M
MANDATORY AUTOMATIC
SET SELECTION THRU SCDM
OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SCEM

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS CUSTOMER.EXPORT.M

MANDATORY AUTOMATIC

SET SELECTION THRU SCEM

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SREPRM

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS REPRESENTATIVE.M

MANDATORY AUTOMATIC

SET SELECTION THRU SREPRM

OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SCOMPTM

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS COMPETITORS.M

MANDATORY AUTOMATIC

SET SELECTION THRU SCOMPTM

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SPPLP

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS PART.LIST.P

MANDATORY AUTOMATIC

SET SELECTION THRU SPPLP

OWNER IDENTIFIED BY SYSTEM

#### SET NAME IS SSUPP

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS SUPPLIER.P

MANDATORY AUTOMATIC

SET SELECTION THRU SSUPP

OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SSUPT

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS SUPPLIER.T

MANDATORY AUTOMATIC

SET SELECTION THRU SSUPT

OWNER IDENTIFIED BY SYSTEM

#### SET NAME IS STDP

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS TEST.DATA.P

MANDATORY AUTOMATIC

SET SELECTION THRU STDP

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS STDT

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS TEST.DATA.T

MANDATORY AUTOMATIC

SET SELECTION THRU STDT

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SRCPP

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS RECIPE.P

MANDATORY AUTOMATIC

SET SELECTION THRU SRCPP

OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SQCSP

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS QC.STATISTICS.P

MANDATORY AUTOMATIC

SET SELECTION THRU SQCSP

OWNER IDENTIFED BY SYSTEM

# SET NAME IS SMODT

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA-BASE-KEY

MEMBER IS MODEL.T

MANDATORY AUTOMATIC

SET SELECTION THRU SMODT

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSTILCR

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS IMPORT.LICENCE.CR
MANDATORY AUTOMATIC
SET SELECTION THRU SYSTILCR
OWNER IS IDENTIFIED BY SYSTEM

# SET NAME IS SYSTILP

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS IMPORT.LICENCE.P

MANDATORY AUTOMATIC

SET SELECTION THRU SYSTILP

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSTILT

OWNER IS SYSTEM ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS IMPORT.LICENCE.T

MANDATORY AUTOMATIC

SET SELECTION THRU SYSTILT

# SET NAME IS SYSTILM

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS IMPORT.LICENCE.M

MANDATORY AUTOMATIC

SET SELECTION THRY SYSTILM

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSCDCR

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CERTF.DEPOSIT.CR
MANDATORY AUTOMATIC
SET SELECTION THRU SYSCDCR
OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSCDC

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CERTF.DEPOSIT.C

MANDATORY AUTOMATIC

SET SELECTION THRU SYSCDC

OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SYSCDT

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CERTF.DEPOSIT.T

MANDATORY AUTOMATIC

SET SELECTION THRU SYSCDT

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSCDH

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CERTF.DEPOSIT.H

MANDATORY AUTOMATIC

SET SELECTION THRU SYSCDH

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSCDM

OWNER IS SYSTEM

ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CERTF.DEPOSIT.M

MANDATORY AUTOMATIC

SET SELECTION THRU SYSCDM

OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SYSCDP

OWNER IS SYSTEM

ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CERTF.DEPOSIT.P

MANDATORY AUTOMATIC

SET SELECTION THRU SYSCDP

OWNER IDENTIFIED BY SYSTEM

#### SET NAME IS SYSBSH

OWNER IS SYSTEM

ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BS.TOTAL.H

MANDATORY AUTOMATIC

SET SELECTION THRU SYSBSH

OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SYSBSC

OWNER IS SYSTEM

ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BS.TOTAL.C

MANDATORY AUTOMATIC

SET SELECTION THRU SYSBSC

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSBSCR

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BS.TOTAL.CR
MANDATORY AUTOMATIC
SET SELECTION THRY SYSBSCR
OWNER IDENTIFIED BY SYSTEM

#### SET NAME IS SYSBST

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BS.TOTAL.T

MANDATORY AUTOMATIC

SET SELECTION THRU SYSBST

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSBSP

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BS.TOTAL.P

MANDATORY AUTOMATIC

SET SELECTION THRY SYSBSP

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSBSM

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BS.TOTAL.M

MANDATORY AUTOMATIC

SET SELECTION THRU SYSBSM

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSPLH

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PL.RESULT.H

MANDATORY AUTOMATIC

SET SELECTION THRY SYSPLH

OWNER IDENTIFIED BY SYSTEM

#### SET NAME IS SYSPLC

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PL.RESULT.C

MANDATORY AUTOMATIC

SET SELECTION THRU SYSPLC

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSPLCR

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PL.RESULT.CR
MANDATORY AUTOMATIC
SET SELECTION THRU SYSPLCR
OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SYSPLT

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PL.RESULT.T

MANDATORY AUTOMATIC

SET SELECTION THRY SYSPLT

OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SYSPLM

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PL.RESULT.M

MANDATORY AUTOMATIC

SET SELECTION THRY SYSPLM

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSPLP

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PL.RESULT.P

MANDATORY AUTOMATIC

SET SELECTION THRU SYSPLP

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSBDH

OWNER IS SYSTEM ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BUDGET.DATE.H

MANDATORY AUTOMATIC

SET SELECTION THRU SYSBDH

OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SYSBDC

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BUDGET.DATE.C

MANDATORY AUTOMATIC

SET SELECTION THRU SYSBDC

OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SYSDRCR

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BUDGET.DATE.CR
MANDATORY AUTOMATIC
SET SELECTION THRY SYSBDCR
OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSBDT

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BUDGET.DATE.T

MANDATORY AUTOMATIC

SET SELECTION THRY SYSBDT

OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SYSBDP

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BUDGET.DATE.P

MANDATORY AUTOMATIC

SET SELECTION THRY SYSBDP

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSBDM

OWNER IS SYSTEM
ORDER IS PERMANENT SORETED BY DATA BASE KEY

MEMBER IS BUDGET.DATE.M

MANDATORY AUTOMATIC

SET SELECTION THRU SYSBDM

OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SYSCRDH

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CREDIT.H

MANDATORY AUTOMATIC

SET SELECTION THRY SYSCRDH

OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SYSCRDC

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CREDIT.C

MANDATORY AUTOMATIC

SET SELECTION THRY SYSCRDC

OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SYSCRDCR

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CREDIT.CR
MANDATORY AUTOMATIC
SET SELECTION THRU SYSCRDCR
OWNER IDENTIFIED BY SYSTEM

#### SET NAME IS SYSCRDT

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CREDIT.T

MANDATORY AUTOMATIC

SET SELECTION THRU SYSCRDT

OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SYSCRDP

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CREDIT.P

MANDATORY AUTOMATIC

SET SELECTION THRY SYSCRDP

OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SYSCRDM

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CREDIT.M

MANDATORY AUTOMATIC

SET SELECTION THRU SYSCRDM

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSLAH

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS LEDGER.ACCNT.H

MANDATORY AUTOMATIC

SET SELECTION THRU SYSLAH

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSLAC

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS LEDGER.ACCNT.C

MANDATORY AUTOMATIC

SET SELECTION THRY SYSLAC

OWNER IDENTIFIED BY SYSTEM

#### SET NAME IS SYSLACR

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS LEDGER.ACCNT.CR
MANDATORY AUTOMATIC
SET SELECTION THRY SYSLACR
OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSLAT

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS LEDGER.ACCNT.T

MANDATORY AUTOMATIC

SET SELECTION THRU SYSLAT

OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SYSLAP

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS LEDGER.ACCNT.P

MANDATORY AUTOMATIC

SET SELECTION THRU SYSLAP

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSLAM

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS LEDGER.ACCNT.M

MANDATORY AUTOMATIC

SET SELECTION THRU SYSLAM

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSBH

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BANK.H

MANDATORY AUTOMATIC

SET SELECTION THRU SYSBH

OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SYSBC

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BANKS.C

MANDATORY AUTOMATIC

SET SELECTION THRU SYSBC

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSBCR

OWNER IS SYSTEM ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BANKS.CR
MANDATORY AUTOMATIC
SET SELECTION THRU SYSBCR
OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSBT

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BANKS.T

MANDATORY AUTOMATIC

SET SELECTION THRU SYSBT

OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SYSBP

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BANKS.P

MANDATORY AUTOMATIC

SET SELECTION THRU SYSBP

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSBM

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BANKS.M

MANDATORY AUTOMATIC

SET SELECTION THRU SYSBM

OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SPERSH

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PERSONNEL.LIST.H

MANDATORY AUTOMATIC

SET SELECTION THRU SPERSH

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SPERSC

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PERSONNEL.LIST.C

MANDATORY AUTOMATIC

SET SELECTION THRU SPERSC

OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SPERSCR

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PERSONNEL.LIST.CR
MANDATORY AUTOMATIC
SET SELECTION THRU SPERSCR
OWNER IDENTIFIED BY SYSTEM

#### SET NAME IS SPERST

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PERSONNEL.LIST.T

MANDATORY AUTOMATIC

SET SELECTION THRU SPERST

OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SPERSP

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PERSONNEL.LIST.P

MANDATORY AUTOMATIC

SET SELECTION THRU SPERSP

OWNER IDENTIFIED BY SYSTEM

#### SET NAME IS SPERSM

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PERSONNEL.LIST.M

MANDATORY AUTOMATIC

SET SELECTION THRU SPERMS

OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SYSDSH

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS DEPT.STATISTICS.H

MANDATORY AUTOMATIC

SET SELECTION THRU SYSDSH

OWNER IDENTIFIED BY SYSTEM

# SET NAME IS SYSDSC

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS DEPT.STATISTICS.C

MANDATORY AUTOMATIC

SET SELECTION THRU SYSDSC

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSDSM

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS DEPT.STATISTICS.CR
MANDATORY AUTOMATIC
SET SELECTION THRU SYSDSCR
OWNER IDENTIFIED BY SYSTEM

#### SET NAME IS SYSDST

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS DEPT.STATISTICS.T

MANDATORY AUTOMATIC

SET SELECTION THRY SYSDST

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSDSP

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS DEPT STATISTICS.P

MANDATORY AUTOMATIC

SET SELECTION THRY SYSDSP

OWNER IDENTIFIED BY SYSTEM

#### SET NAME IS SYSDSM

OWNER IS SYSTEM ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS DEPT.STATISTICS.M

MANDATORY AUTOMATIC

SET SELECTION THRU SYSDSM

OWNER IDENTIFIED BY SYSTEM

#### SET NAME IS SYSEXH

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS EXEMPTION.H

MANDATORY AUTOMATIC

SET SELECTION THRY SYSEXH

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSEXC

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS EXEMPTION.C

MANDATORY AUTOMATIC

SET SELECTION THRY SYSEXC

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSEXCR

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS EXEMPTION.CR
MANDATORY AUTOMATIC
SET SELECTION THRU SYSEXCR
OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSEXT

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS EXEMPTION.T

MANDATORY AUTOMATIC

SET SELECTION THRU SYSEXT

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSEXP

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS EXEMPTION.P

MANDATORY AUTOMATIC

SET SELECTION THRU SYSEX.P

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SYSEXM

OWNER IS SYSTEM

ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS EXEMPTION.M

MANDATORY AUTOMATIC

SET SELECTION THRU SYSEXM OWNER IDENTIFIED BY SYSTEM

### SET NAME IS STRH

OWNER IS SYSTEM

ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS TAX.RATE.H

MANDATORY AUTOMATIC

SET SELECTION THRU STRH

OWNER IDENTIFIED BY SYSTEM

#### SET NAME IS STRC

OWNER IS SYSTEM

ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS TAX. RATE. C

MANDATORY AUTOMATIC

SET SELECTION THRU STRC

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS STRCR

OWNER IS SYSTEM

ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS TAX. RATE. CR

MANDATORY AUTOMATIC

SET SELECTION THRU STRCR

OWNER IDENTIFIED BY SYSTEM

#### SET NAME IS STRT

OWNER IS SYSTEM

ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS TAX. RATE.T

MANDATORY AUTOMATIC

SET SELECTION THRU STRT

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS STRP

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS TAX.RATE.P

MANDATORY AUTOMATIC

SET SELECTION THRU STRP

OWNER IDENTIFIED BY SYSTEM

# SET NAME IS STRM

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS TAX.RATE.M

MANDATORY AUTOMATIC

SET SELECTION THRU STRM

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS MLSYCR

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MACHINE.LIST.CR
MANDATORY AUTOMATIC
SET SELECTION THRU MLSYCR
OWNER IDENTIFIED BY SYSTEM

# SET NAME IS MLSYT

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MACHINE.LIST.T

MANDATORY AUTOMATIC

SET SELECTION THRU MLSYT

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS MLSYP

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MACHINE.LIST.P

MANDATORY AUTOMATIC

SET SELECTION THRU MLSYP

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS MLSYM

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MACHINE.LIST.M

MANDATORY AUTOMATIC

SET SELECTION THRU MLSYM

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SPSYCR

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS SPARE.PARTS.CR
MANDATORY AUTOMATIC
SET SELECTION THRU SPSYCR
OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SPSYT

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS SPARE.PARTS.T

MANDATORY AUTOMATIC

SET SELECTION THRU SPSYT

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SPSYP

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS SPARE.PARTS.P

MANDATORY AUTOMATIC

SET SELECTION THRU SPSYP

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SPSYM

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS SPARE.PARTS.M

MANDATORY AUTOMATIC

SET SELECTION THRU SPSYM

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SMSYCR

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS SUPPLIER.MACH.CR
MANDATORY AUTOMATIC
SET SELECTION THRU SMSYCR
OWNER IDENTIFIED BY SYSTEM

#### SET NAME IS SMSYT

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS SUPPLIER.MACH.T

MANDATORY AUTOMATIC

SET SELECTION THRU SMSYT

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS SMSYP

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS SUPPLIER.MACHINE.P

MANDATORY AUTOMATIC

SET SELECTION THRY SMSYP

OWNER IDENTIFIED BY SYSTEM

#### SET NAME IS SMSYM

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS SUPPLIER.MACHINE.M

MANDATORY AUTOMATIC

SET SELECTION THRU SMSYM

OWNER IDENTIFIED BY SYSTEM

# SET IS FASYCR

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS FIXED.ASSETS.CR
MANDATORY AUTOMATIC
SET SELECTION THRU FASYCR
OWNER IDENTIFIED BY SYSTEM

### SET NAME IS FASYT

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS FIXED.ASSETS.T

MANDATORY AUTOMATIC

SET SELECTION THRU FASYT

OWNER IDENTIFIED BY SYSTEM

#### SET NAME IS FASYP

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS FIXED.ASSETS.P

MANDATORY AUTOMATIC

SET SELECTION THRU FASYP

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS FASYM

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS FIXED.ASSETS.M

MANDATORY AUTOMATIC

SET SELECTION THRU FASYM

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS FASYHC

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS FIXED.ASSETS.HC

MANDATORY AUTOMATIC

SET SELECTION THRU FASYHC

OWNER IDENTIFIED BY SYSTEM

### SET NAME IS FASYCC

OWNER IS SYSTEM
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS FIXED.ASSETS.CC

MANDATORY AUTOMATIC

SET SELECTION THRU FASYCC

OWNER IDENTIFIED BY SYSTEM

# SET NAME IS BS

OWNER IS BS.ACCOUNT.HC
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BS.ACCOUNT.CC

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU BS

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS BS.ACCOUNT.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU BS

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS BS.ACCOUNT.H

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU BS

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER OF BS.ACCOUNT.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU BS

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS BS.ACCOUNT.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU BS

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS PL

OWNER IS PL.ACCOUNT.HC
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PL.ACCOUNT.CC

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PL

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS PL.ACCOUNT.H

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PL

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS PL.ACCOUNT.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PL

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS PL.ACCOUNT.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PL

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS PL.ACCOUNT.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PL

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS BUDGET

OWNER IS BUDGET.LEVEL.HC
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BUDGET.LEVEL.CC

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU BUDGET

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS BUDGET.LEVEL.H

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU BUDGET

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS BUDGET.LEVEL.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU BUDGET

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS BUDGET.LEVEL.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU BUDGET

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS BUDGET.LEVEL.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU BUDGET

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS PERSON

OWNER IS PERS.INDEX.HC
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PERS.INDEX.CC

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSON

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS PERSONNEL.LIST.H

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSON

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS PERSONNEL.LIST.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSON

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS PERSONNEL.LIST.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSON

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS PERSONNEL.LIST.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSON

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS B

OWNER IS BANK.INDEX.HC
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BANK.INDEX.CC

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU B

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS BANKS.H

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU B

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS BANKS.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU B

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS BANKS.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU B

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS BANKS.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU B

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS PAY

OWNER IS TOTAL.PAYBLS.HC
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS TOTAL.PAYBLS.CC

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PAY

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS PAYABLES.H

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PAY

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS PAYABLES.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PAY

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS PAYABLES.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PAY

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS PAYABLES.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PAY

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS RECEIV

OWNER IS TOTAL.RECEIVL.HC
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS TOTAL.RECEIVL.CC

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU RECEIV

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS RECEIVABLES.H

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU RECEIV

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS RECEIVABLES.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU RECEIV

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS RECEIVABLES.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU RECEIV

ONWER IDENTIFIED BY CURRENT OF SET

MEMBER IS RECEIVABLES.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU RECEIV

OWNER IDENTIFIED BY CURRENT OF SET

### SET NAME IS MTRL

OWNER IS MATERIAL.HOUSE.HC
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MATERIAL.HOUSE.CC

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MTRL

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS PART.LIST.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MTRL

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS PART.LIST P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MTRL

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS WAREHOUSE.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MTRL

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS FA

OWNER IS FIXED.ASSETS.HC
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS FIXED.ASSETS.CC

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU FA

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS FIXED.ASSETS.H

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU FA

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS FIXED.ASSETS.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU FA

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS FIXED.ASSETS.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU FA

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS FIXED.ASSETS.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU FA

OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS BTBF

OWNER IS BS.TOTAL ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BS.FORMAT

MANDATORY AUTOMATIC

KEY IS ASCENDING LINE.NO

SET SELECTION BY DATA BASE KEY

### SET NAME IS BFBA

OWNER IS BS.FORMAT
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BS.ACCOUNT

MANDATORY AUTOMATIC

KEY IS ASCENDING LINE.NO

SET SELECTION THRU BFBA

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS PRPF

OWNER IS PL.RESULT
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PL.FORMAT

MANDATORY AUTOMATIC

KEY IS ASCENDING LINE.NO

SET SELECTION THRU PRPF

OWNER IDENTIFIED BY DATA BASE KEY

### SET NAME IS PFPA

OWNER IS PL.FORMAT
ORDER IS PERMANENT BY DEFINED KEYS

MEMBER IS PL.ACCOUNT

MANDATORY AUTOMATIC

KEY IS ASCENDING LINE.NO

SET SELECTION THRU PFPA

OWNER IDENTIFIED BY CURRENT OF SET

### SET NAME IS BDBT

OWNER IS BUDGET. DATE
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BUDGET.TOTAL

MANDATORY AUTOMATIC

KEY IS ASCENDING ACCOUNT.NO

SET SELECTION THRU BDBT

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS BTBL

OWNER IS BUDGET.TOTAL ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BUDGET.LEVEL.I

MANDATORY AUTOMATIC

KEY IS ASCENDING LEVEL.NO

SET SELECTION THRU BTBL

OWNER IDENTIFIED BY CURRENT OF SET

### SET NAME IS BLABLB

OWNER IS BUDGET.LEVEL.I
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BUDGET.LEVEL.Z

MANDATORY MANUAL

KEY IS ASCENDING LEVEL.NO

SET SELECTION THRU BLABLB

OWNER IDENTIFIED BY CURRENT OF SET

### SET NAME IS MMPAY

OWNER IS MONTH.M ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS TOTAL.PAYBLS

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MMPAY

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS MMREC

OWNER IS MONTH.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS TOTAL.RECVBLS

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MMREC

OWNER IDENTIFIED BY DATA BASE KEY

# SET NAME IS BSA

OWNER IS BS.ACCOUNT.CC ORDER IS PERMANENT BY DEFINED KEYS

MEMBER IS BS.ACCOUNT.C
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU BSA
OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS BS.ACCOUNT.CR
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU BSA
OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS BLA

OWNER IS PL.ACCOUNT.CC
ORDER IS PERMANENT BY DEFINED KEYS

MEMBER IS PL.ACCOUNT.C

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PLA

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS PL.ACCOUNT.CR
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU PLA
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS PERSL

OWNER IS PERS.INDEX.CC
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PERSONNEL.LIST.C

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSL

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS PERSONNEL.LIST.CR
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU PERSL
OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS BNK

OWNER IS BANK.INDEX.CC
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BANKS.C

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU BNK

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS BANKS.CR

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU BNK

OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS PAYL

OWNER IS TOTAL.PAYBLS.CC
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PAYABLES.C

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PAYL

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS PAYABLES.CR
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU PAYL
OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS RECEIVL

OWNER IS TOTAL.RECVBLS.CC
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS RECEIVABLES.C

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU RECEIVL

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS RECEIVABLES.CR
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU RECEIVL
OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS BUDLEV

OWNER IS BUDGET.LEVEL.CC
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BUDGET.LEVEL.C

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU BUDLEV

OWNER IDENTIFIED BY CURRENT OF SET

MEMBER IS BUDGET.LEVEL.CR

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU BUDLEV

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MATER

OWNER IS MATERIAL, HOUSE.CC
ORDER IS PERMANENT SORTED BY DATA BASE KEYS

MEMBER IS WAREHOUSE.C

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MATER

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS FASTCC

OWNER IS FIXED.ASSETS.CC
ORDER IS PERMANENT SORTED BY DATA BASE KEYS

MEMBER IS FIXED.ASSETS.C MANDATORY AUTOMATIC LINKED TO OWNER
SET SELECTION THRU FASTCC
ORDER IDENTIFIED BY CURRENT OF SET

MEMBER IS FIXED.ASSETS.CR

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU FASTCC

ORDER IDENTIFIED BY CURRENT OF SET

### SET NAME IS BRBF

OWNER IS BS.TOTAL ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BS.FORMAT

MANDATORY AUTOMATIC

KEY IS ASCENDING LINE.NO

SET SELECTION BY DATA BASE KEY

# SET NAME IS BFBA

OWNER IS BS.FORMAT
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BS.ACCOUNT

MANDATORY AUTOMATIC

KEY IS ASCENDING LINE.NO

SET SELECTION THRU BFBA

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS PRPF

OWNER IS PL.RESULT
ORDER IS PERMANENT SORTED BY DATA BASE KEYS

MEMBER IS PL. FORMAT

MANDATORY AUTOMATIC

KEY IS ASCENDING LINE.NO

SET SELECTION THRU PRPF

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS PFPA

OWNER IS PL. FORMAT
ORDER IS PERMANENT BY DEFINED KEYS

MEMBER IS PL.ACCOUNT

MANDATORY AUTOMATIC

KEY IS ASCENDING LINE.NO

SET SELECTION THRU PFPA

OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS BDBT

OWNER IS BUDGET.DATE
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BUDGET.TOTAL

MANDATORY AUTOMATIC

KEY IS ASCENDING ACCOUNT.NO

SET SELECTION THRU BDBT

OWNER IDENTIFIED BY DATA BASE KEY

### SET NAME IS BTBL

OWNER IS BUDGET.TOTAL
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BUDGET.LEVEL.I

MANDATORY AUTOMATIC

KEY IS ASCENDING LEVEL.NO

SET SELECTION THRU BTBL

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS BLABLB

OWNER IS BUDGET.LEVEL.I
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BUDGET.LEVEL.Z

MANDATORY MANUAL

KEY IS ASCENDING LEVEL.NO

SET SELECTION THRU BLABLB

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS MMPAY

OWNER IS MONTH.M ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS TOTAL.PAYBLS

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MMPAY

OWNER IDENTIFIED BY DATA BASE KEY

MANDATORY AUTOMATIC

## SET NAME IS MMREC

OWNER IS MONTH.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY
MEMBER IS TOTAL.RECVBLS

LINKED TO OWNER
SET SELECTION THRU MMREC
OWNER IDENTIFIED BY DATA BASE KEY

### SET NAME IS BTBFH

OWNER IS BS.TOTAL.H
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BS.FORMAT.H

MANDATORY AUTOMATIC

LINKED TO OWNER

KEY IS ASCENDING LINE.NO

SET SELECTION THRU BTBFH

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS BFBAH

OWNER IS BS.FORMAT.H
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BS.ACCOUNT.H

MANDATORY AUTOMATIC

KEY IS ASCENDING LINE.NO

SET SELECTION THRU BFBAH

OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS PRPFH

OWNER IS PL.RESULT.H
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PL.FORMAT.H

MANDATORY AUTOMATIC

KEY IS ASCENDING LINE.NO

SET SELECTION THRU PRPFH

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS PFPAH

OWNER IS PL. FORMAT.H
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PL.ACCOUNT.H

MANDATORY AUTOMATIC

KEY IS ASCENDING LINE.NO

SET SELECTION THRU PFPAH

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS LASAH

OWNER IS LEDGER.ACCNT.H
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS SUBSDR.ACCNT.H

MANDATORY AUTOMATIC

KEY IS ASCENDING ACCOUNT.NO

SET SELECTION THRU LASAH

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS SAJAH

OWNER IS SUBSDR.ACCNT.H
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS JOURNAL.ACCNT.H

MANDATORY AUTOMATIC

KEY IS ASCENDING ACCOUNT.NO

SET SELECTION THRU SAJAH

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JAMHH

OWNER IS JOURNAL.ACCNT.H
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS MONTH.H.H

MANDATORY AUTOMATIC

KEY IS ASCENDING YEAR

SEARCH KEY IS MONTH

SET SELECTION THRU JAMHH

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS MHJH

OWNER IS MONTH.H.H.
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS JOURNAL.H

MANDATORY AUTOMATIC

KEY IS ASCENDING DATE

SEARCH KEY IS TRANSACT.NO

SET SELECTION THRU MHJH

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS CRGETH

OWNER IS CREDIT.H
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CREDIT.GET.H

MANDATORY AUTOMATIC

LINKED TO OWNER

KEY IS ASCENDING DATE

SET SELECTION THRU CRGETH

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS CRPAYH

OWNER IS CREDIT.H
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CREDIT.PAY.H

MANDATORY AUTOMATIC

LINKED TO OWNER

KEY IS ASCENDING DATE

SET SELECTION THRU CRPAYH

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS BDBTH

OWNER IS BUDGET.DATE.H
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BUDGET.TOTAL.H

MANDATORY AUTOMATIC

KEY IS ASCENDING ACCOUNT.NO

SET SELECTION THRU BDBTH

OWNER IDENTIFIED BY DATA BASE KEY

### SET NAME IS BTBLH

OWNER IS BUDGET.LEVEL.I.H
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BUDGET.LEVEL.Z.H

MANDATORY MANUAL

KEY IS ASCENDING LEVEL.NO

SET SELECTION THRU BLABLBH

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS PBONDH

OWNER IS PAYABLES.H
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BOND.DETAIL.H

MANDATORY MANUAL

KEY IS ASCENDING ENDORSE.DATE

SEARCH KEY IS RECEIV.DATE

SET SELECTION THRU PBONDH

OWNER IDENTIFIED BY CURRENT OF SET

### SET NAME IS RBONDH

OWNER IS RECEIVABLES.H
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BOND.DETAIL.H

MANDATORY MANUAL

KEY IS ASCENDING ENDORSE.DATE

SEARCH KEY IS RECEIV.DATE

SET SELECTION THRU PBONDH

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS JLBSH

OWNER IS JOURNAL.ACCNT.H
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBERS IS BANKS.H

MANDATORY MANUAL

KEY IS ASCENDING BANK.CODE

SET SELECTION THRU JLBSH

OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS JLCTH

OWNER IS JOURNAL.ACCNT.H
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS CREDIT.H

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU JLBSH

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JLPSH

OWNER IS JOURNAL.ACCNT.H
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PAYABLES.H

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU JLPSH

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JLRSH

OWNER IS JOURNAL.ACCNT.H
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS RECEIVABLES.H

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU JLRSH

OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS MHBLLHH

OWNER IS MONTH.H.H
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BUDGET.LEVEL.Z.H

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MHBLLH

OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS JAPLAH

OWNER IS JOURNAL.ACCNT.H
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PL.ACCOUNT.H

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU JAPLAH

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS LABSAH

OWNER IS LEDGER.ACCNT.H
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BS.ACCOUNT.H

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU LABSAH

OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS BNCRTH

OWNER IS BANKS.H ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CREDIT.H

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU BNCRTH

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS BNILCH

OWNER IS BANKS.H
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS IMPORT.LICENSE.H

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU BNILCH

OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS BNIPRH

OWNER IS BANKS.H
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS IMPORT.PREP.H

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU BNIPRH

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS BNSDPH

OWNER IS BANKS.H
ORDER IS PERMANENT SORTED BY DATA BASE KEY
MEMBER IS CERTF.DEPOSIT.H
MANDATORY AUTOMATIC

LINKED TO OWNER
SET SELECTION THRU BNCDPH
OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS PERSEDH

OWNER IS PERSONNEL.LIST.H
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS EDUCATION.H

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSEDH

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PERSREFH

OWNER IS PERSONNEL.LIST.H
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS REFERENCES.H

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSREFH

OWNER IDENTIFIED BY DATA BASE KEY

# SET NAME IS PERSPWH

OWNER IS PERSONNEL.LIST.H
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PREVIOUS.WORK.H

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSPWH

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PERSFIH

OWNER IS PERSONNEL.LIST.H
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS FAMILY.INFO.H

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSFIH

OWNER IDENTIFIED BY DATA BASE KEY

# SET NAME IS PERSEXH

OWNER IS PERSONNEL.LIST.H
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS EXPERIENCE.H

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSEXH

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PERSAWH

OWNER IS PERSONNEL.LIST.H
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS ACTUAL.WORK.H

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSAWH

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS DEPTAWH

OWNER IS DEPT.STATISTICS.H
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS ACTUAL.WORK.H

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU DEPTAWH

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS PERSPRH

OWNER IS PERSONNEL.LIST.H
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PAY.ROLL.H

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSPRH

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS DEPTMFH

OWNER IS DEPT.STATISTICS.H
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MONTH.F.H

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU DEPTMFH

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS MFPRH

OWNER IS MONTH.F.H
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PLAN.REAL.H

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MFPRH

OWNER IDENTIFIED BY DATA BASE KEY

# SET NAME IS JOURFAH

OWNER IS JOURNAL.ACCOUNT.H
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS FIXED.ASSETS.H

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU JOURFAH

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JOURPRH

OWNER IS JOURNAL.ACCOUNT.H
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PAY.ROLL.H

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU JOURPRH

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS BTBFC

OWNER IS BS.TOTAL.C
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BS.FORMAT.C

MANDATORY AUTOMATIC

KEY IS ASCENDING LINE.NO

SET SELECTION THRU BTBFC

OWNER IDENTIFIED BY DATA BASE KEY

# SET NAME IS BFBAC

OWNER IS BS.FORMAT.C
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BS.ACCOUNT.C

MANDATORY AUTOMATIC

KEY IS ASCENDING LINE.NO

SET SELECTION THRU BFBAC

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS PRPFC

OWNER IS PL.RESULT.C
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PL.FORMAT.C

MANDATORY AUTOMATIC

KEY IS ASCENDING LINE.NO

SET SELECTION THRU PRPFC

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS PFPAC

OWNER IS PL.FORMAT.C
ORDER IS PERMANENT BY DEFINED KEYS

MEMBER IS PL.ACCOUNT.C

MANDATORY AUTOMATIC

KEY IS ASCENDING LINE.NO

SET SELECTION THRU PFPAC

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS LASAC

OWNER IS LEDGET.ACCNT.C
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS SUBSDR.ACCNT.C

MANDATORY AUTOMATIC

KEY IS ASCENDING ACCOUNT.NO

SET SELECTION THRU LASAC

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS SAJAC

OWNER IS SUBSDR.ACCNT.C
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS JOURNAL.ACCNT.C

MANDATORY AUTOMATIC

KEY IS ASCENDING ACCOUNT.NO

SET SELECTION THRU SAJAC

OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS JAMHC

OWNER IS JOURNAL.ACCNT.C
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS MONTH.H.C.

MANDATORY AUTOMATIC

KEY IS ASCENDING YEAR

SEARCH KEY IS MONTH

SET SELECTION THRU JAMHC

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS MHJC

OWNER IS MONTH.H.C
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS JOURNAL.C

MANDATORY AUTOMATIC

KEY IS ASCENDING DATE

SEARCH KEY IS TRANSACT.NO

SET SELECTION THRU MHJC

OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS CRGETC

OWNER IS CREDIT.C
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CREDIT.GET.C

MANDATORY AUTOMATIC

LINKED TO OWNER

KEY IS ASCENDING DATE

SET SELECTION THRU CRGET.C

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS CRPAYC

OWNER IS CREDIT.C ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CREDIT.PAY.C

MANDATORY AUTOMATIC

LINKED TO OWNER

KEY IS ASCENDING DATE

SET SELECTION THRU CRPAYC

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS BDBTC

OWNER IS BUDGET.DATE.C
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BUDGET.TOTAL.C

MANDATORY AUTOMATIC

KEY IS ASCENDING ACCOUNT.NO

SET SELECTION THRU BDBTC

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS BTBLC

OWNER IS BUDGET.TOTAL.C ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BUDGET.LEVEL.I.C

MANDATORY AUTOMATIC

KEY IS ASCENDING LEVEL.NO

SET SELECTION THRU BTBLC

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS BLABLBC

OWNER IS BUDGET.LEVEL.I.C
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BUDGET.LEVEL.Z.C

MANDATORY MANUAL

KEY IS ASCENDING LEVEL.NO

SET SELECTION THRU BLABLBC

OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS PBONDC

OWNER IS PAYABLES.C
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BOND.DETAIL.C

MANDATORY MANUAL

KEY IS ASCENDING ENDORSE.DATE

SEARCH KEY IS RECEIV.DATE

SET SELECTION THRU PBONDC

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS RBONDC

OWNER IS RECEIVABLES.C
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BOND.DETAIL.C

MANDATORY MANUAL

KEY IS ASCENDING ENDORSE.DATE

SEARCH KEY IS RECEIV.DATE

SET SELECTION THRU PBONDC

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS JLBSC

OWNER IS JOURNAL.ACCNT.C
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BANKS.C

MANDATORY MANUAL

KEY IS ASCENDING BANK.CODE

SET SELECTION THRU JLBSC

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JLCTC

OWNER IS JOURNAL.ACCNT.C
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS CREDIT.C

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU JLBSC

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JLPSC

OWNER IS JOURNAL.ACCNT.C
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PAYABLES.C

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU JLPSC

OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS JLRSC

OWNER IS JOURNAL.ACCNT.C
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS RECEIVABLES.C

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU JLRSC

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS MHBLLC

OWNER IS MONTH.H.C ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BUDGET.LEVEL.Z.C

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MHBLLC

OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS JAPLAC

OWNER IS JOURNAL.ACCNT.C
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PL.ACCOUNT.C

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU JAPLAC

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS LABSAC

OWNER IS LEDGER.ACCNT.C
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BS.ACCOUNT.C

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU LABSAC

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS BNCRTC

OWNER IS BANKS.C
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CREDIT.C

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU BNCRTC

OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS BNILCC

OWNER IS BANKS.C ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS IMPORT.LICENCE.C

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU BNILCC

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS BNIPRC

OWNER IS BANKS.C
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS IMPORT.PREP.C

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU BNIPRC

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS BNCDPC

OWNER IS BANKS.C ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CERTF.DEPOSIT.C

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU BNCDPC

OWNER IDENTIFIED BY CURRENT OF SET

### SET NAME IS PERSEDC

OWNER IS PERSONNEL.LIST.C
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS EDUCATION.C

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSEDC

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PERSREFC

OWNER IS PERSONNEL.LIST.C
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS REFERENCES

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSREFC

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS PERSPSC

OWNER IS PERSONNEL.LIST.C
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PREVIOUS.WORK.C

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSPWC

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PERSFIC

OWNER IS PERSONNEL.LIST.C
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS FAMILY.INFO.C

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSFIC

OWNER IDENTIFIED BY DATA BASE KEY

# SET NAME IS PERSEXC

OWNER IS PERSONNEL.LIST.C
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS EXPERIENCE.C

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSEXC

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PERSAWC

OWNER IS PERSONNEL.LIST.C
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS ACTUAL.WORK.C

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSAWC

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS DEPTAWC

OWNER IS DEPT.STATISTICS.C
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS ACTUAL.WORK

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU DEPTAWC

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS PERSPRC

OWNER IS PERSONNEL.LIST.C
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PAY, ROLL.C

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSPRC

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS DFPTMFC

OWNER IS DEPT.STATISTICS.C
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MONTH.F.C

MANDATORY ATUOMATIC

LINKED TO OWNER

SET SELECTION THRU DEPTMFC

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MFPRC

OWNER IS MONTH.F.C
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PLAN.REAL.C

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MFPRC

OWNER IDENTIFIED BY DATA BASE KEY

# SET NAME IS JOURFAC

OWNER IS JOURNAL.ACCOUNT.C
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS FIXED.ASSETS.C

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU JOURFAC

OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS JOURPRC

OWNER IS JOURNAL.ACCOUNT.C
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PAY.ROLL.C

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU JOURPRC

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS WR

OWNER IS WAREHOUSE.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS REMAINDER.CR
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU WR
OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS PR

OWNER IS PART.ID.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS REMAINDER.CR
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU PR
OWNER IDENTIFIED BY DATA BASE KEY

# SET NAME IS RMA

OWNER IS PART.ID.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MONTH.A.CR

MANDATORY AUTOMATIC

KEY IS ASCENDING YEAR

SEARCH KEY IS MONTH

SET SELECTION THRU RMA

OWNER IDENTIFIED BY DATA BASE KEY

### SET NAME IS PRB

OWNER IS PART.ID.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS R.B.CR
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU PRB
OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS SRB

OWNER IS SUPPLIER.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS R.B.CR
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU SRB
OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS MAOR

OWNER IS MONTH.A.CR
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS ORDER.REAL.CR
MANDATORY AUTOMATIC
KEY IS ASCENDING DATE
SEARCH KEY IS SUPPLIER.CODE
SET SELECTION THRU MAOR
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MAOP

OWNER IS MONTH.A.CR
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS ORDER.PLAN.CR
MANDATORY AUTOMATIC
KEY IS ASCENDING DEMAND.NO
SEARCH KEY IS SUPPLIER.CODE
SET SELECTION THRU MAOR
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MAOS

OWNER IS MONTH.A.CR
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS SUPPLY.CR
MANDATORY AUTOMATIC
KEY IS ASCENDING WORKSITE.CODE
SET SELECTION THRU MAOS
OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS PDMAT

OWNER IS PRODUCTION DATA.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MATERIAL.DATA.CR
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU PDMAT
OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PDMACH

OWNER IS PRODUCTION. DATA.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MACHINE.DATA.CR
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU PDMACH
OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PDMAN

OWNER IS PRODUCTION.DATA.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MANPOWER.DATA.CR
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU PDMAN
OWNER IDENTIFIED BY DATA BASE KEY

### SET NAME IS RP

OWNER IS REGION
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PROJECT

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU RP

OWNER IDENTIFIED BY DATA BASE KEY

# SET NAME IS PW

OWNER IS PROJECT
ORDER IS PERMANENT IMMATERIAL

MEMBER IS WORKSITE

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PW

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS WU

OWNER IS WORKSITE
ORDER IS PERMANENT IMMATERIAL

MEMBER IS DETAIL

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU WU

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS UD

OWNER IS UNIT
ORDER IS PERMANENT IMMATERIAL

MEMBER IS DETAIL

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU UD

OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS DW

OWNER IS DETAIL
ORDER IS PERMANENT IMMATERIAL

MEMBER IS WORK

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU DW

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS WMATU

OWNER IS WORK
ORDER IS PERMANENT IMMATERIAL

MEMBER IS MATERIAL.USAGE
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU WMATU
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS WMACU

OWNER IS WORK
ORDER IS PERMANENT IMMATERIAL

MEMBER IS MACHINE.USAGE

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU WMACU

OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS WMANU

OWNER IS WORK
ORDER IS PERMANENT IMMATERIAL

MEMBER IS MANPOWER.USAGE

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU WMANU

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS WPROD

OWNER IS WORK
ORDER IS PERMANENT IMMATERIAL

MEMBER IS PRODUCTION.DATA.CR
MANDATORY MANUAL
LINKED TO OWNER
SET SELECTION THRU WPROD
OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS WMB

OWNER IS PROJECT
ORDER IS PERMANENT IMMATERIAL

MEMBER IS MONTH.B.CR
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU WMB
OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS SMATU

OWNER IS SUPPLY.CR
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS MATERIAL.USAGE

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU SMATU

OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS SOP

OWNER IS SUPPLIER.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS ORDER.PLAN.CR
MANDATORY MANUAL
KEY IS DEMAND.NO
SEARCH KEY IS SUPPLIER.CODE
SET SELECTION THRU SOP
OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS SOR

OWNER IS SUPPLIER.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS ORDER.REAL.CR
MANDATORY AUTOMATIC
SEARCH KEY IS SUPPLIER.CODE
SET SELECTION THRU SOR
OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS OPOR

OWNER IS ORDER.PLAN.CR
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS ORDER.REAL.CR
MANDATORY AUTOMATIC
KEY IS ASCENDING DATE
SEARCH KEY IS SUPPLIER.CODE
SET SELECTION THRU OPOR
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS ILLDCR

OWNER IS IMPORT.LICENSE.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS LICENSE.DETAIL.CR
MANDATORY AUTOMATIC
KEY IS ASCENDING MATL.CODE
SET SELECTION THRU ILLD.CR
OWNER IDENTIFIED BY DATA BASE KEY

# SET NAME IS LDIPCR

OWNER IS LICENSE.DETAIL.CR
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS IMPORT.PREP.CR
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU LDIPCR
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS LDIRCR

OWNER IS LICENSE.DETAIL.CR
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS IMPORT.REAL.CR
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU LDIRCR
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS IPIRCR

OWNER IS IMPORT.PREP.CR
ORDER IS PERMANENT IMMATERIAL

MEMBER IS IMPORT.REAL.CR

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU IPIRCR

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS BTBFCR

OWNER IS BS.TOTAL.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BS.FORMAT.CR
MANDATORY AUTOMATIC
KEY IS ASCENDING LINE.NO
SET SELECTION THRU BTBFCR
OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS BFBACR

OWNER IS BS.FORMAT.CR
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BS.QCCOUNT.CR
MANDATORY AUTOMATIC
KEY IS ASCENDING LINE.NO
SET SELECTION THRU BFBACR
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS PRPFCR

OWNER IS PL.RESULT.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PL.FORMAT.CR
MANDATORY AUTOMATIC
KEY IS ASCENDING LINE.NO
SET SELECTION THRU PRPFCR
OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PFPACR

OWNER IS PL. FORMAT.CR
ORDER IS PERMANENT BY DEFINED KEYS

MEMBER IS PL.ACCOUNT.CR
MANDATORY AUTOMATIC
KEY IS ASCENDING LINE.NO
SET SELECTION THRU PFPACR
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS LASACR

OWNER IS LEDGER.ACCNT.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS SUBSDR.ACCNT.CR

MANDATORY AUTOMATIC

KEY IS ASCENDING ACCOUNT.NO

SET SELECTION THRY LASACR

OWNER IDENTIFIED BY DATA BASE KEY

### SET NAME IS SAJACR

OWNER IS SUBSDR.ACCNT.CR
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS JOURNAL.ACCNT.CR
MANDATORY AUTOMATIC
KEY IS ASCENDING ACCOUNT.NO
SET SELECTION THRU SAJACR
OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS JAMHCR

OWNER IS JOURNAL.ACCNT.CR
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS MONTH.H.CR
MANDATORY AUTOMATIC
KEY IS ASCENDING YEAR
SEARCH KEY IS MONTH
SET SELECTION THRU JAMHCR
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MHJCR

OWNER IS MONTH.H.CR
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS JOURNAL.CR

MANDATORY AUTOMATIC

KEY IS ASCENDING DATE

SEARCH KEY IS TRANSACT.NO

SET SELECTION THRU MHJCR

OWNER IDENTIFIED BY CURRENT OF SET

### SET NAME IS CRGETCR

OWNER IS CREDIT.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CREDIT.GET.CR

MANDATORY AUTOMATIC

LINKED TO OWNER

KEY IS ASCENDING DATE

SET SELECTION THRU CRGETCR

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS CRPAYCR

OWNER IS CREDIT.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CREDIT.CR

MANDATORY AUTOMATIC

LINKED TO OWNER

KEY IS ASCENDING DATE

SET SELECTION THRU CRPAYCR

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS BDBTCR

OWNER IS BUDGET.DATE.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BUDGET.TOTAL.CR

MANDATORY AUTOMATIC

KEY IS ASCENDING ACCOUNT.NO

SET SELECTION THRU BDBTCR

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS BTBLCR

OWNER IS BUDGET.TOTAL.CR
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BUDGET.LEVEL.I.CR
MANDATORY AUTOMATIC
KEY IS ASCENDING LEVEL.NO
KEY SELECTION THRU BTBLCR
OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS BLABLBCR

OWNER IS BUDGET.LEVEL.I.CR
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BUDGET.LEVEL.Z.CR

MANDATORY MANUAL

KEY IS ASCENDING LEVEL.NO

SET SELECTION THRU BLABLBCR

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS PBONDCR

OWNER IS PAYABLES.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BOND.DETAIL.CR

MANDATORY MANUAL

KEY IS ASCENDING ENDORSE.DATE

SEARCH KEY IS RECEIV.DATE

SET SELECTION THRU PBONDCR

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS RBONDCR

OWNER IS RECEIVABLES.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BOND.DETAIL.CR

MANDATORY MANUAL

KEY IS ASCENDING ENDORSE.DATE

SEARCH KEY IS RECEIV.DATE

SET SELECTION THRU RBONDCR

OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS JLBSCR

OWNER IS JOURNAL.ACCNT.CR
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BANKS.CR
MANDATORY MANUAL
KEY IS ASCENDING BANK.CODE
SET SELECTION THRU JBLSCR
OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS JLCTCR

OWNER IS JOURNAL.ACCNT.CR
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS CREDIT.CR
MANDATORY MANUAL
LINKED TO OWNER
SET SELECTION THRU JLBSCR
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JLPSCR

OWNER IS JOURNAL.ACCNT.CR
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PAYABLES.CR
MANDATORY MANUAL
LINKED TO OWNER
SET SELECTION THRU JLPSCR
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JLRSCR

OWNER IS JOURNAL.ACCNT.CR
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS RECEIVABLES.CR

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU JLRSCR

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MHBLLCR

OWNER IS MONTH.H.CR
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BUDGET.LEVEL.Z.CR
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU MHBLLCR
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JAPLACR

OWNER IS JOURNAL.ACCNT.CR
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PL.ACCOUNT.CR
MANDATORY MANUAL
LINKED TO OWNER
SET SELECTION THRU JAPLACR
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS LABSACR

OWNER IS LEDGER.ACCNT.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BS.QCCOUNT.CR
MANDATORY MANUAL
LINKED TO OWNER
SET SELECTION THRU LABSACR
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS BNCRTCR

OWNER IS BANKS.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CREDIT.CR

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU BNCRTCR

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS BNILCCR

OWNER IS BANKS.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS IMPORT.LICENSE.CR

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU BNILCCR

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS BNIPRCR

OWNER IS BANKS.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS IMPORT.PREP.CR

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU BNIPRCR

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS BNCDPCR

OWNER IS BANKS.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CERTF.DEPOSIT.CR

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELFCTION THRU BNCDPCR

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS PERSEDCR

OWNER IS PERSONNEL.LIST.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS EDUCATION.CR
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU PERSEDCR
OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS PERSREFCR

OWNER IS PERSONNEL.LIST.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS REFERENCES.CR
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU PERSREFCR
OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PERSPWCR

OWNER IS PERSONNEL.LIST.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PREVIOUS.WORK.CR

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSPWCR

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PERSFICE

OWNER IS PERSONNEL.LIST.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS FAMILY.INFO.CR

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSFICR

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PERSEXCR

OWNER IS PERSONNEL.LIST.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS EXPERIENCE.CR

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSEXCR

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS PERSAWCR

OWNER IS PERSONNEL.LIST.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS ACTUAL.WORK.CR

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSAWCR

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS DEPTAWCR

OWNER IS DEPT.STATISTICS.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS ACTUAL.WORK.CR
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU DEPTAWCR
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS PEPSPRCR

OWNER IS PERSONNEL.LIST.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PAY.ROLL.CR

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSPRCR

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS DEPTMFCR

OWNER IS DEPT.STATISTICS.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MONTH.F.CR.

MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU DEPTMFCR
OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS MFPRCR

OWNER IS MONTH.F.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

OWNER IS PLAN.REAL.CR
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU MFPRCR
OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS MPUSECR

OWNER IS MACHINE.LIST.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PREVIOUS.USE.CR

MANDATORY AUTOMATIC

KEY IS ASCENDING REGION.CODE

SET SELECTION THRU MPUSECR

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS MMONGCR

OWNER IS MACHINE.LIST.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MONTH.G.CR

MANDATORY AUTOMATIC

KEY IS ASCENDING YEAR

SEARCH KEY IS MONTH

SET SELECTION THRU MMONGCR

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS MGPUSCR

OWNER IS MONTH.G.CR
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PRESENT.USE.CR

MANDATORY AUTOMATIC

KEY IS ASCENDING WORKSITE.CODE

SET SELECTION THRU MGPUSCR

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MGPLANCR

OWNER IS MONTH.G.CR
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PLAN.CR
MANDATORY AUTOMATIC
KEY IS ASCENDING WORKSITE.CODE
SET SELECTION THRU MGPLANCR
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MMPRLCR

OWNER IS MONTH.G.CR
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS MACH.PLAN.REAL.CR
MANDATORY AUTOMATIC
KEY IS ASCENDING PLAN.BEGIN.DATE
SET SELECTION THRU MMPRLCR
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MLFAILCR

OWNER IS MACHINE.LIST.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS FAILURE.CR
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU MLFAILCR
OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS MLMDTLCR

OWNER IS MACHINE.LIST.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MAINT.DETAIL.CR
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU MLMDTLCR
OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS MLMPLANCR

OWNER IS MACHINE.LIST.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MAINT.PLAN.CR
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU MLMPLANCR
OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS SPDSPLCR

OWNER IS SPARE.PARTS.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS DEMAND.SUPPLY.CR
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU SPDSPLCR
OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS SPRNCR

OWNER IS SPARE.PARTS.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS R.N.CR
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU SPRNCR
OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS SUPLRNCR

OWNER IS SUPPLIER.MACH.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS R.N.CR
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU SUPLRNCR
OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS SPOSCR

OWNER IS SPARE.PARTS.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS ORDER.SHIP.CR
MANDATORY AUTOMATIC
KEY IS ASCENDING ORDER.DATE
SEARCH KEY IS SUPPLIER.CODE
SET SELECTION THRU SPOSCR
OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS SPLOSCR

OWNER IS SUPPLIER.MACH.CR
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS ORDER.SHIP.CR
MANDATORY AUTOMATIC
KEY IS ASCENDING ORDER.DATE
SEARCH KEY IS SUPPLIER.CODE
SET SELECTION THRU SPLOSCR
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MPLSPCR

OWNER IS MAINT.PLAN.CR
ORDER IS PERMANENT IMMATERIAL

MEMBER IS SPARE.PARTS.CR

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU MPLSPCR

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JOURFACR

OUWNER IS JOURNAL.ACCOUNT.CR
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS FIXED.ASSETS.CR

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU JOURFACR

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JOURPRCR

OWNER IS JOURNAL.ACCOUNT.CR
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PAY.ROLL.CR
MANDATORY MANUAL
LINKED TO OWNER
SET SELECTION THRU JOURPRCR
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JAEGRVCR

OWNER IS JOURNAL.ACCNT.CR
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS ENGRAVE

MANDATORY AUTOMATIC

LINKED TO OWNER

SEARCH KEY IS REPORT.NO

SET SELECTION THRU JAEGRVCR

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS BLEGRYCR

OWNER IS BUDGET.LEVEL.CR
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS ENGRAVE
MANDATORY AUTOMATIC

LINKED TO OWNER

SEARCH KEY IS REPORT.NO

SET SELECTION THRU JAEGRVCR

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS ENGVWK

OWNER IS ENGRAVE

ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS WORK

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRY ENGCWK

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS MBENGV

OWNER IS MONTH.B.CR

ORDER IS PERMANENT IMMATERIAL

MEMBER IS ENGRAVE

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MBENGV

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS ENGVML

OWNER IS ENGRAVE

ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MACHINE.LIST.CR

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU ENGVML

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS ENGYORL

OWNER IS ENGRAVE
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS ORDER.REAL.CR
MANDATORY MANUAL
LINKED TO OWNER
SET SELECTION THRU ENGVORL
OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS MUMLCR

OWNER IS MACHINE.USAGE
ORDER IS PERMANENT IMMATERIAL

MEMBER IS MACHINE.LIST.CR

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU MUMLCR

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MUPRCR

OWNER IS MANPOWER.USAGE
ORDER IS PERMANENT IMMATERIAL

MEMBER IS PLAN.REAL.CR
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU MUPRCR
OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS PRCT

OWNER IS PART.LIST.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS R.C.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRY PRCT

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS SRCT

OWNER IS SUPPLIER.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS R.C.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU SRCT

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PLRET

OWNER IS PART.LIST.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS R.E.T

MANDATORY AUTOMATIC

KEY IS ASCENDING MONTH

SET SELECTION THRU PLRET

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS REDT

OWNER IS R.E.T ORDER IS PERMANENT BY DEFINED KEYS

MEMBER IS DEMAND.T

MANDATORY AUTOMATIC

KEY IS ASCENDING DEMAND.NO

SEARCH KEY IS CUSTOMER.CODE

SET SELECTION THRU REDT

OWNER IDENTIFIED BY CURRENT OF RECORDS

## SET NAME IS REST

OWNER IS R.E.T ORDER IS PERMANENT BY DEFINED KEYS

MEMBER IS SELL.T

MANDATORY AUTOMATIC

KEY IS ASCENDING DELIVER.DATE

SEARCH KEY IS CUSTOMER.CODE

SET SELECTION THRU REST

OWNER IDENTIFIED BY CURRENT OF RECORDS

### SET NAME IS PLASMT

OWNER IS PART.LIST.T
ORDER IS PERMANENT BY DATA BASE KEY

MEMBER IS AVG.STOCK.MONTH.T

MANDATORY AUTOMATIC

KEY IS ASCENDING MONTH

SET SELECTION THRU PLASM

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS PLOPT

OWNER IS AVG.STOCK.MONTH.T
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS ORDER.PLAN.T

MANDATORY AUTOMATIC

KEY IS ASCENDING CONTRACT.NO

SEARCH KEY IS SUPPLIER.CODE

SET SELECTION THRU PLOPT

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS PLORT

OWNER IS ORDER.PLAN.T
ORDER IS PERMANENT BY DEFINED KEYS

MEMBER IS ORDER.REAL.T

MANDATORY AUTOMATIC

KEY IS ASCENDING DATE

SEARCH KEY IS SUPPLIER.CODE, INVOICE.NO
SET SELECTION THRU PLORT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS ORQCTT

OWNER IS ORDER.REAL.T
ORDER IS PERMANENT BY DEFINED KEYS

MEMBER IS QC.TEST.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU ORQCTT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS TDQCTT

OWNER IS TEST. DATA.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS QC.TEST.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU TDQCTT

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PLMZT

OWNER IS PART.LIST.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MONTH.Z.T

MANDATORY AUTOMATIC

KEY IS ASCENDING MONTH

SET SELECTION THRU PLMZT

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS MZSPT

OWNER IS MONTH.Z.T
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS SUPPLY.PLAN.T

MANDATORY AUTOMATIC

KEY IS ASCENDING DEPT.CODE

SET SELECTION THRU MZSPT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS SPSRT

OWNER IS SUPPLY.PLAN.T
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS SUPPLY.REAL.T

MANDATORY MANUAL

KEY IS ASCENDING DATE

SEARCH KEY IS DEPT.CODE

SET SELECTION THRU SPSRT

ONWER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MZPPT

OWNER IS MONTH.Z.T ORDER IS PERMANENT BY DEFINED KEYS

MEMBER IS PRODUCTION.PLAN.T

MANDATORY AUTOMATIC

KEY IS ASCENDING DEPT.CODE

SET SELECTION THRU MZPPT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS PPPRT

OWNER IS PRODUCTION.PLAN.T
ORDER IS PERMANENT BY DEFINED KEYS

MEMBER IS PRODUCTION.REAL.T

MANDATORY AUTOMATIC

KEY IS ASCENDING DATE

SEARCH KEY IS DEPT.CODE

SET SELECTION THRU PPPRT

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS SUPORT

OWNER IS SUPPLIER.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS ORDER.REAL.T

MANDATORY AUTOMATIC

KEY IS ASCENDING DATE

SEARCH KEY IS SUPPLIER.CODE, INVOICE.NO

SET SELECTION THRU SUPOR.T

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS SUPOPT

OWNER IS SUPPLIER.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS ORDER.PLAN.T

MANDATORY AUTOMATIC

KEY IS ASCENDING CONTRACT.NO

SEARCH KEY IS SUPPLIER.CODE

SET SELECTION THRU SUPOPT

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS DST

OWNER IS DEMAND.T ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS SELL.T

MANDATORY AUTOMATIC

KEY IS ASCENDING DELIVERY.DATE

SEARCH KEY IS CUSTOMER.CODE

SET SELECTION THRU DST

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS PLQCT

OWNER IS PART.LIST.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS QC.STATISTICS.T

MANDATORY AUTOMATIC

KEY IS TEST.CODE

SET SELECTION THRU PLQCT

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS MP

OWNER IS MODEL
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PROCESS

MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU MP
OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PMATU

OWNER IS PROCESS
ORDER IS PERMANENT IMMATERIAL

MEMBER IS MATERIAL.USAGE

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PMATU

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS PMANU

OWNER IS PROCESS
ORDER IS PERMANENT IMMATERIAL

MEMBER IS MANPOWER.USAGE

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PMANU

OWNER IDENTIFIED BY CURRENT OF SET

### SET NAME IS PMACHU

OWNER IS PROCESS
ORDER IS PERMANENT IMMATERIAL

MEMBER IS MACHINE.USAGE

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PMANU

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MUSUB

OWNER IS MATERIAL.USAGE
ORDER IS PERMANENT IMMATERIAL

MEMBER IS SUBPARTS

MANDATORY AUTOMATIC

KEY IS SUBPART.CODE

SET SELECTION THRU MUSUB

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS MUOPP

OWNER IS MATERIAL.USAGE
ORDER IS PERMANENT IMMATERIAL

MEMBER IS OPTIONAL.PARTS

MANDATORY AUTOMATIC

KEY IS OPTIONAL.PART.CODE

SET SELECTION THRU MUOPP

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS OPPL

OWNER IS OPTIONAL.PARTS
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PART.LIST.T

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU MUOPP

OWNER IDENTIFIED BY CURRENT OF SET

### SET NAME IS SUBPL

OWNER IS SUBPARTS
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PART.LIST.T

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU SUBPL

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MUPL

OWNER IS MATERIAL.USAGE
ORDER IS PERMANENT IMMATERIAL

MEMBER IS PART.LIST.T

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU MUPL

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS PRPR

OWNER IS PRODUCTION.REAL.T
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PROCESS

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PRPR

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS ILLDT

OWNER IS IMPORT.LICENSE.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS LICENSE.DETAIL.T

MANDATORY AUTOMATIC

KEY IS ASCENDING MATL.CODE

SET SELECTION THRU ILLDT

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS LDIPT

OWNER IS LICENSE.DETAIL.T
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS IMPORT.PREP.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU LDIPT

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS LDIRT

OWNER IS LICENSE.DETAIL.T
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS IMPORT.REAL.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU LDIRT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS IPIRT

OWNER IS IMPORT.PREP.T
ORDER IS PERMANENT IMMATERIAL

MEMBER IS IMPORT.REAL.T

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU IPIRT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS BTBFT

OWNER IS BS.TOTAL.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BS.FORMAT.T

MANDATORY AUTOMATIC

KEY IS ASCENDING LINE.NO

SET SELECTION THRU BTBFT

OWNER IDENTIFIED BY DATA BASE KEY

### SET NAME IS BFBAT

OWNER IS BS.FORMAT.T
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BS.ACCOUNT.T

MANDATORY AUTOMATIC

KEY IS ASCENDING LINE.NO

SET SELECTION THRU BFBAT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS PRPFT

OWNER IS PL.RESULT.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PL.FORMAT.T

MANDATORY AUTOMATIC

KEY IS ASCENDING LINE.NO

SET SELECTION THRU PRPFT

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PFPAT

OWNER IS PL.FORMAT.T
ORDER IS PERMANENT BY DEFINED KEYS

MEMBER IS PL.ACCOUNT.T

MANDATORY AUTOMATIC

KEY IS ASCENDING LINE.NO

SET SELECTION THRU PFPAT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS LASAT

OWNER IS LEDGER.ACCNT.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS SUBSDR.ACCNT.T

MANDATORY AUTOMATIC

KEY IS ASCENDING ACCOUNT.NO

SET SELECTION THRU LASAT

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS SAJAT

OWNER IS SUBSDR.ACCNT.T
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS JOURNAL.ACCNT.T

MANDATORY AUTOMATIC

KEY IS ASCENDING ACCOUNT.NO

SET SELECTION THRU SAJAT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JAMHT

OWNER IS JOURNAL.ACCNT.T
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS MONTH.H.T

MANDATORY AUTOMATIC

KEY IS ASCENDING YEAR

SEARCH KEY IS MONTH

SET SELECTION THRU JAMHT

OWNER IDENTIFIED BY CURRENT OF SET

### SET NAME IS MHJT

OWNER IS MONTH.HT.T
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS JOURNAL.T

MANDATORY AUTOMATIC

KEY IS ASCENDING DATE

SEARCH KEY IS TRANSACT.NO

SET SELECTION THRU MHJT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS CRGETT

OWNER IS CREDIT.T ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CREDIT.GET.T

MANDATORY AUTOMATIC

LINKED TO OWNER

KEY IS ASCENDING DATE

SET SELECTION THRU CRGETT

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS CRPAYT

OWNER IS CREDIT.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CREDIT.PAY.T

MANDATORY AUTOMATIC

LINKED TO OWNER

KEY IS ASCENDING DATE

SET SELECTION THRU CRPAYT

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS BDBTT

OWNER IS BUDGET.DATE.T ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BUDGET.TOTAL.T

MANDATORY AUTOMATIC

KEY IS ASCENDING ACCOUNT.NO

SET SELECTION THRU BDBTT

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS BTBLT

OWNER IS BUDGET.TOTAL.T ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BUDGET.LEVEL.I.T

MANDATORY AUTOMATIC

KEY IS ASCENDING LEVEL.NO

SET SELECTION THRU BTBLT

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS BLABLET

OWNER IS BUDGET.LEVEL.I.T ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BUDGET.LEVEL.Z.T

MANDATORY MANUAL

KEY IS ASCENDING LEVEL.NO

SET SELECTION THRU BLABLBT

OWNER IDENTIFIED BY CURRENT OF SET

### SET NAME IS PRONDT

OWNER IS PAYABLES.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BOND.DETAIL.T

MANDATORY MANUAL

KEY IS ASCENDING ENDORSE.DATE

SEARCH KEY IS RECEIV.DATE

SET SELECTION THRU PBONDT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS RBONDT

OWNER IS RECEIVABLES.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BOND.DETAIL.T

MANDATORY MANUAL

KEY IS ASCENDING ENDORSE.DATE

SEARCH KEY IS RECEIV.DATE

SET SELECTION THRU RBONDT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JLBST

OWNER IS JOURNAL.ACCNT.T
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BANKS.T

MANDATORY MANUAL

KEY IS ASCENDING BANK.CODE

SET SELECTION THRU JLBST

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JLCTT

OWNER IS JOURNAL.ACCNT.T
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS CREDIT.T

MANDATORY MANUAL
LINKED TO OWNER
SET SELECTION THRU JLBST
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JLPST

OWNER IS JOURNAL.ACCNT.T
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PAYABLES.T

MANDATORY MANUAL
LINKED TO OWNER
SET SELECTION THRU JLPST
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JLRST

OWNER IS JOURNAL.ACCNT.T
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS RECEIVABLES.T

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU JLRST

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS MHBLLT

OWNER IS MONTH.H.T ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BUDGET.LEVEL.Z.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MHBLLT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JAPLAT

OWNER IS JOURNAL.ACCNT.T
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PL.ACCOUNT.T

MANDATORY MANUAL
LINKED TO OWNER
SET SELECTION THRU JAPLAT
OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS LABSAT

OWNER IS LEDGER.ACCNT.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BS.ACCOUNT.T

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU LABSAT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS BNCRTT

OWNER IS BANKS.T ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CREDIT.T

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU BNCRTT

OWNER IDENTIFIED BY CURRENT OF SET

### SET NAME IS BNILCT

OWNER IS BANKS.T ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS IMPORT.LICENSE.T

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU BNILCT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS BNIPRT

OWNER IS BANKS.T ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS IMPORT.PREP.T

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU BNIPRT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS BNCDPT

OWNER IS BANKS.T ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CERTF.DEPOSIT.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU BNCDPT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS DDDCT

OWNER IS DEPT.DATA.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS DEPT.COST.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU DDDCT

OWNER IDENTIFIED BY DATA BASE KEY

# SET NAME IS DCMCT

OWNER IS DEPT.COST.T
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS MODEL.COST.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU DCMCT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MEMCT

OWNER IS MONTH.E.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MODEL.COST.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MEMCT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS PERSEDT

OWNER IS PERSONNEL.LIST.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS EDUCATION.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSEDT

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PERSREFT

OWNER IS PERSONNEL.LIST.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS REFERENCES.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSREFT

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PERSPWT

OWNER IS PERSONNEL.LIST.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PREVIOUS.WORK.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSPWT

OWNER IDENTIFIED BY DATA BASE KEY

# SET NAME IS PERSFIT

OWNER IS PERSONNEL.LIST.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS FAMILY.INFO.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSFIT

OWNER IDENTIFIED BY DATA BASE KEY

### SET NAME IS PERSEXT

OWNER IS PERSONNEL.LIST.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS EXPERIENCE.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSEXT

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS PERSAWT

OWNER IS PERSONNEL.LIST.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS ACTUAL.WORK.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSAWT

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS DEPTAWT

OWNER IS DEPT.STATISTICS.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS ACTUAL.WORK.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU DEPTAWT

OWNER IDENTIFIED BY CURRENT OF SET

### SET NAME IS PERSPRT

OWNER IS PERSONNEL.LIST.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PAY.ROLL.T

MANDATORY AUTOMATIC

LINKED TO WONER

SET SELECTION THRU PERSPRT

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS DEPTMFT

OWNER IS DEPT.STATISTICS.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MONTH.F.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU DEPTMFT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MFPRT

OWNER IS MONTH.F.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PLAN.REAL.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MFPRT

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS MPUSET

OWNER IS MACHINE.LIST.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PREVIOUS.USE.T

MANDATORY AUTOMATIC

KEY IS ASCENDING REGION.CODE

SET SELECTION THRU MPUSET

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS MMONGT

OWNER IS MACHINE.LIST.T

ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MONTH.G.T

MANDATORY AUTOMATIC

KEY IS ASCENDING YEAR

SEARCH KEY IS MONTH

SET SELECTION THRU MMONGT

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS MGPUST

OWNER IS MONTH.G.T
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PRESENT.USE.T

MANDATORY AUTOMATIC

KEY IS ASCENDING WORKSITE.CODE

SET SELECTION THRU MGPUST

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MGPLANT

OWNER IS MONTH.G.T ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PLAN.T

MANDATORY AUTOMATIC

KEY IS ASCENDING WORKSITE.CODE

SET SELECTION THRU MGPLANT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MMPRLT

OWNER IS MONTH.G.T ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS MACH.PLAN.REAL.T

MANDATORY AUTOMATIC

KEY IS ASCENDING PLAN.BEGIN.DATE

SET SELECTION THRU MMPRLT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MLFAILT

OWNER IS MACHINE.LIST.T
ORDER IS PERMANENT SORTED DATA BASE KEY

MEMBER IS FAILURE,T

MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU MLFAILT
OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS MLMDTLT

OWNER IS MACHINE.LIST.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MAINT.DETAIL.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MLMDTLT

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS MLMPLANT

OWNER IS MACHINE.LIST.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MAINT.PLAN.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MLMPLANT

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS SPDSPLT .

OWNER IS SPARE.PARTS.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS DEMAND.SUPPLY.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU SPDSPLT

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS SPRNT

OWNER IS SPARE.PARTS.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS R.N.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU SPRNT

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS SUPLENT

OWNER IS SUPPLIER.MACH.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS R.N.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU SUPLRNT

OWNER IDENTIFED BY DATA BASE KEY

## SET NAME IS SPOST

OWNER IS SPARE.PARTS.T
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS ORDER.SHIP.T

MANDATORY AUTOMATIC

KEY IS ASCENDING ORDER.DATE

SEARCH KEY IS SUPPLIER.CODE

SET SELECTION THRU SPOST

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS SPLOST

OWNER IS SUPPLIER.MACH.I
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS ORDER.SHIP.T

MANDATORY AUTOMATIC

KEY IS ASCENDING ORDER.DATE

SEARCH KEY IS SUPPLIER.CODE

SET SELECTION THRU SPLOST

OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS MPLSDT

OWNER IS MAINT.PLAN.T ORDER IS PERMANENT IMMATERIAL

MEMBER IS SPARE.PARTS.T

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU MPLSPT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JOURFAT

OWNER IS JOURNAL.ACCOUNT.T
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS FIXED.ASSETS.T

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU JOURFAT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JOURPRT

OWNER IS JOURNAL.ACCOUNT.T
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PAY.ROLL.T

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU JOURPRT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS DDPLT

OWNER IS DEPT.DATA.T
ORDER IS PERMANENT IMMATERIAL

MEMBER IS PRODUCTION.REAL.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU DDPLT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS DCFASTT

OWNER IS DEPT.COST.T
ORDER IS PERMANENT IMMATERIAL

MEMBER IS FIXED.ASSETS.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU DCFASTT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS PRMLPT

OWNER IS PRODUCTION.REAL.T
ORDER IS PERMANENT IMMATERIAL

MEMBER IS MACH.PLAN.REAL.T

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU PRMLPT

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS MUMLTT

OWNER IS MACHINE.USAGE.T
ORDER IS PERMANENT IMMATERIAL

MEMBER IS MACHINE, LIST.T

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU MUMLTT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MUSDSTT

OWNER IS MANPOWER.USAGE.T
ORDER IS PERMANENT IMMATERIAL

MEMBER IS DEPT.STATISTICS.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MUSDSTT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MDCRPT

OWNER IS MODEL.COST.T
ORDER IS PERMANENT IMMATERIAL

MEMBER IS PRODUCTION.REAL.T

MANDATORY MANUAL
LINKED TO OWNER
SET SELECTION THRU MDCRPT
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS PRPRLT

OWNER IS PRODUCTION.REAL.T
ORDER IS PERMANENT IMMATERIAL

MEMBER IS PLAN.REAL.T

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU PRPRLT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS BUDDCST

OWNER IS BUDGET.LEVEL.T
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS DEPT.COST.T

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU BUDDCST

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS PLRFP

OWNER IS PART.LIST.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS R.F.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PLRFP

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS SRFP

OWNER IS SUPPLIER.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS R.F.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU SRFP

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PLRHP

OWNER IS PART.LIST.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS R.H.P

MANDATORY AUTOMATIC

KEY IS ASCENDING MONTH

SET SELECTION THRU PLRHP

OWNER IDENTIFIED BY DATA BASE KEY

### SET NAME IS RHDP

OWNER IS R.H.P ORDER IS PERMANENT BY DEFINED KEYS

MEMBER IS DEMAND.T

MANDATORY AUTOMATIC

KEY IS ASCENDING DEMAND.NO

SEARCH KEY IS CUSTO:ER.CODE

SET SELECTION THRU RHDP

OWNER IDENTIFIED BY CURRENT OF RECORDS

#### SET NAME IS RHSP

OWNER IS R.H.P ORDER IS PERMANENT BY DEFINED KEYS

MEMBER IS SELL.P

MANDATORY AUTOMATIC

KEY IS ASCENDING DELIVERY.DATE

SEARCH KEY IS CUSTOMER.CODE

SET SELECTION THRU RHSP

OWNER IDENTIFIED BY CURRENT OF RECORDS

#### SET NAME IS PASMP

OWNER IS PART.LIST.P

ORDER IS PERMANENT BY DATA BASE KEY

MEMBER IS AVG.STOC.MONTH.P

MANDATORY AUTOMATIC

KEY IS ASCENDING MONTH

SET SELECTION THRU PASMP

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS ASMOPP

OWNER IS AVG.STOCK.MONTH.P ORDER IS PERMANENT BY DEFINED KEYS

MEMBER IS ORDER.PLAN.P

MANDATORY AUTOMATIC

KEY IS ASCENDING CONTRACT.NO

SEARCH KEY IS SUPPLIER.CODE

SET SELECTION THRU ASMOPP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS ASMORP

OWNER IS ORDER.PLAN.P
ORDER IS PERMANENT BY DEFINED KEYS

MEMBER IS ORDER.REAL.P

MANDATORY AUTOMATIC

KEY IS ASCENDING DATE

SEARCH KEY IS SUPPLIER.CODE, INVOICE.NO

SET SELECTION THRU ASMORP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS ORDROCP

OWNER IS ORDER.REAL.P
ORDER IS PERMANENT BY DEFINED KEYS

MEMBER IS QC.TEST.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU ORDROCP

OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS QCDP

OWNER IS TEST. DATA.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS QC.TEST.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU QCDP

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS PLMXP

OWNER IS PART.LIST.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MONTH.X.P

MANDATORY AUTOMATIC

KEY IS ASCENDING MONTH

SET SELECTION THRU PLMXP

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS MXSUPP

OWNER IS MONTH.X.P ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS SUPPLY.PLAN.P
MANDATORY AUTOMATIC
KEY IS ASCENDING DEPT.CODE
SET SELECTION THRU MXSUPP
OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS SUPSURP

OWNER IS SUPPLY.PLAN.P
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS SUPPLY.REAL.P

MANDATORY MANUAL

KEY IS ASCENDING DATE

SEARCH KEY IS DEPT.CODE

SET SELECTION THRU SUPSURP

OWNER IDENTIFIED BY CURRENT OF SET

### SET NAME IS MXPPP

OWNER IS MONTH.X.P
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PRODUCTION.PLAN.P

MANDATORY AUTOMATIC

KEY IS ASCENDING DEPT.CODE

SET SELECTION THRU MXPPP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS PRODPRP

OWNER IS PRODUCTION.PLAN.P
ORDER IS PERMANENT BY DEFINED KEYS

MEMBER IS PRODUCTION.REAL.P

MANDATORY AUTOMATIC

KEY IS ASCENDING DATE

SEARCH KEY IS DEPT.CODE

SET SELECTION THRU PRODPRP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS SPPORP

OWNER IS SUPPLIER.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS ORDER.REAL.P

MANDATORY AUTOMATIC

KEY IS ASCENDING CONTRACT.NO

SEARCH KEY IS SUPPLIER.CODE

SET SELECTION THRU SPPOPP

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS DEMSELP

OWNER IS DEMAND.P
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS SELL DEMSEL.P

MANDATORY AUTOMATIC

KEY IS ASCENDING DELIVERY.DATE

SEARCH KEY IS CUSTOMER.CODE

SET SELECTION THRU DEMSELP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS RECPP

OWNER IS RECIPE
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PRODUCTION.PHASE

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU RECPP

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PPMAT

OWNER IS PRODUCTION.PHASE
ORDER IS PERMANENT IMMATERIAL

MEMBER IS MATERIAL.USAGE
MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU PPMAT
OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS PPMAN

OWNER IS PRODUCTION.PHASE ORDER IS PERMANENT IMMATERIAL

MEMBER IS MANPOWER.USAGE

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PPMAN

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS PPMAC

OWNER IS PRODUCTION.PHASE ORDER IS PERMANENT IMMATERIAL

MEMBER IS MACHINE.USAGE

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PPMAC

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS PPQC

OWNER IS PRODUCTION.PHASE
ORDER IS PERMANENT IMMATERIAL

MEMBER IS Q.CONTROL

MANDATORY AUTOMATIC

KEY IS ASCENDING TEST.CODE

SET SELECTION THRU PPQC

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS QCQCI

OWNER IS Q.CONTROL ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS QC.INFO
MANDATORY AUTOMATIC
KEY IS ASCENDING JOB.NO
SET SELECTION THRU PPQC
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS QCQCR

OWNER IS Q.CONTROL ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS QC.RESULTS

MANDATORY AUTOMATIC

KEY IS ASCENDING JOB.NO

SET SELECTION THRU QCQCR

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS QCRS

OWNER IS QC.STATISTICS
ORDER IS PERMANENT SORTED BY DATA BASE KEYS

MEMBER IS QC.RESULTS

MANDATORY AUTOMATIC

KEY IS ASCENDING JOB.NO

SET SELECTION THRU QCRS

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS PPWIP

OWNER IS QC.RESULTS
ORDER IS PERMANENT BY DEFINED KEYS

MEMBER IS W.I.P

MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU PPWIP
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS QCPROD

OWNER IS QC.INFO
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PRODUCTION.PHASE

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU QCPROD

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS RECPL

OWNER IS RECIPE
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PART.LIST.P

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU RECPL

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MATUPL

OWNER IS MATERIAL.USAGE
ORDER IS PERMANENT IMMATERIAL

MEMBER IS PART.LIST.P

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU MATUPL

OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS QCIPL

OWNER IS QC.INFO
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PART.LIST.P

MANDATORY MANUAL
LINKED TO OWNER
SET SELECTION THRU QCIPL
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS WIP

OWNER IS W.I.P ORDER IS PERMANENT IMMATERIAL

MEMBER IS PART.LIST.P

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU WIP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS ILLDP

OWNER IS IMPORT.LICENSE.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS LICENSE.DETAIL.P

MANDATORY AUTOMATIC

KEY IS ASCENDING MATL.CODE

SET SELECTION THRU ILLDP

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS LDIPP

OWNER IS LICENSE.DETAIL.P
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS IMPORT.PREP.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU LDIPP

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS LDIRP

OWNER IS LICENSE.DETAIL.P
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS IMPORT.REAL.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU KDIRP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS IPIRP

OWNER IS IMPORT.PREP.P ORDER IS PERMANENT IMMATERIAL

MEMBER IS IMPORT.REAL.P

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU IPIRP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS BTBFP

OWNER IS BS.TOTAL.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BS.FORMAT.P

MANDATORY AUTOMATIC

KEY IS ASCENDING LINE.NO

SET SELECTION THRU BTBFP

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS BFBAP

OWNER IS BS.FORMAT.P
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BS.ACCOUNT.P

MANDATORY AUTOMATIC

KEY IS ASCENDING LINE.NO

SET SELECTION THRU BFBAP

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS PRPFP

OWNER IS PL.RESULT.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PL.FORMAT.P

MANDATORY AUTOMATIC

KEY IS ASCENDING LINE.NO

SET SELECTION THRU PRPFP

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PFPAP

OWNER IS PL.FORMAT.P
ORDER IS PERMANENT BY DEFINED KEYS

MEMBER IS PL.ACCOUNT.P

MANDATORY AUTOMATIC

KEY IS ASCENDING LINE.NO

SET SELECTION THRU PFPAP

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS LASAP

OWNER IS LEDGER.ACCNT.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS SUBSDR.ACCNT.P

MANDATORY AUTOMATIC

KEY IS ASCENDING ACCOUNT.NO

SET SELECTION THRU LASAP

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS SAJAP

OWNER IS SUBSDR.ACCNT.P
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS JOURNAL.ACCNT.P

MANDATORY AUTOMATIC

KEY IS ASCENDING ACCOUNT.NO

SET SELECTION THRU SAJAP

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS JAMHP

OWNER IS JOURNAL.ACCN.TP
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS MONTH.H.P

MANDATORY AUTOMATIC

KEY IS ASCENDING YEAR

SEARCH KEY IS MONTH

SET SELECTION THRU JAMHP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MHJP

OWNER IS MONTH.H.P
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS JOURNAL.P

MANDATORY AUTOMATIC

KEY IS ASCENDING DATE

SEARCH KEY IS TRANSACT.NO

SET SELECTION THRU MHJP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS CRGETP

OWNER IS CREDIT.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CREDIT.GET.P

MANDATORY AUTOMATIC

LINKED TO OWNER

KEY IS ASCENDING DATE

SET SELECTION THRU CRGETP

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS CRPAYP

OWNER IS CREDIT.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CREDIT.PAY.P

MANDATORY AUTOMATIC

LINKED TO OWNER

KEY IS ASCENDING DATE

SET SELECTION THRU CRPAYP

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS BDBTP

OWNER IS BUDGET.DATE.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BUDGET.TOTAL.P

MANDATORY AUTOMATIC

KEY IS ASCENDING ACCOUNT.NO

SET SELECTION THRU BDBTP

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS BTBLP

OWNER IS BUDGET.TOTAL.P
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BUDGET.LEVEL.I.P

MANDATORY AUTOMATIC

KEY IS ASCENDING LEVEL.NO

SET SELECTION THRU BTBLP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS BLABLBP

OWNER IS BUDGET.LEVEL.I.P
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BUDGET.LEVEL.Z.P

MANDATORY MANUAL

KEY IS ASCENDING ELVEL.NO

SET SELECTION THRU BLABLBP

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS PBONDP

OWNER IS PAYABLES.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BOND.DETAIL.P

MANDATORY MANUAL

KEY IS ASCENDING ENDORSE.DATE

SEARCH KEY IS RECEIV.DATE

SET SELECTION THRU PBONDP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS RBONDP.

OWNER IS RECEIVABLES.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BOND.DETAIL.P

MANDATORY MANUAL

KEY IS ASCENDING ENDORSE.DATE

SEARCH KEY IS RECEIV.DATE

SET SELECTION THRU RBONDP

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS JLBSP

OWNER IS JOURNAL.ACCNT.P
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BANKS.P

MANDATORY MANUAL

KEY IS ASCENDING BANK.CODE

SET SELECTION THRU JLBSP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JLCTP

OWNER IS JOURNAL.ACCNT.P
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS CREDIT.P

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU JLBSP

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS JLPSP

OWNER IS JOURNAL.ACCNT.P
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PAYABLES.P

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU JLPSP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JLRSP

OWNER IS JOURNAL.ACCNT.P
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS RECEIVABLES.P

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU JLRSP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MHBLLP

OWNER IS MONTH.H.P
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BUDGET.LEVEL.Z.P

MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU MHBLLP
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JAPLAP

OWNER IS JOURNAL.ACCNT.P
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PL.ACCOUNT.P

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU JAPLAP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS LABSAP

OWNER IS LEDGER.ACCNT.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BS.ACCNT.P

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU LABSAP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS BNCRTP

OWNER IS BANKS.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CREDIT.P

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU BNCRTP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS BNILCP

OWNER IS BANKS.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS IMPORT.LICENSE.P

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU BNILCP

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS BNIPRP

OWNER IS BANKS.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS IMPORT.PREP.P

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU BNIPRP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS BNCDPP

OWNER IS BANKS.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CERTF.DEPOSIT.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU BNCDPP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS DDDCP

OWNER IS DEPT.DATA.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS DEPT.COST.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU DDDCP

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS DCMCP

OWNER IS DEPT.COST.P
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS MODEL.COST.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU DCMCP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MEMCP

OWNER IS MONTH.E.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MODEL.COST.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MEMCP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS PERSEDP.

OWNER IS PERSONNEL.LIST.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS EDUCATION.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSEDP

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PERSREFP

OWNER IS PERSONNEL.LIST.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS REFERENCES.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSREFP

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PERSPWP

OWNER IS PERSONNEL.LIST.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PREVIOUS.WORK.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSPWP

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PERSFIP

OWNER IS PERSONNEL.LIST.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS FAMILY.INFO.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSFIP

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PERSEXP

OWNER IS PERSONNEL.LIST.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS EXPERIENCE.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSEXP

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PERSAWP

OWNER IS PERSONNEL.LIST.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS ACTUAL.WORK.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSAWP

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS DEPTAWP

OWNER IS DEPT.STATISTICS.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS ACTUAL.WORK.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU DEPTAWP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS PERSPRP

OWNER IS PERSONNEL.LIST.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PAY.ROLL.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSPRP

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS DEPTMFP

OWNER IS DEPT.STATISTICS.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MONTH.F.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU DEPTMFP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MFPRP

OWNER IS MONTH.F.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PLAN.REAL.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MFPRP

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS MPUSEP

OWNER IS MACHINE.LIST.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PREVIOUS.USE.P

MANDATORY AUTOMATIC

KEY IS ASCENDING REGION.CODE

SET SELECTION THRU MPUSEP

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS MMONGP

OWNER IS MACHINE.LIST.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MONTH.G.P

MANDATORY AUTOMATIC

KEY IS ASCENDING YEAR

SEARCH KEY IS MONTH

SET SELECTION THRU MMONGP

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS MGPUSP

OWNER IS MONTH.G.P
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PRESENT.USE.P

MANDATORY AUTOMATIC

KEY IS ASCENDING WORKSITE.CODE

SET SELECTION THRU MGPUSP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MGPLANP

OWNER IS MONTH.G.P
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PLAN.P

MANDATORY AUTOMATIC

KEY IS ASCENDING WORKSITE.CODE

SET SELECTION THRU MGPLANP

OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS MMPRLP

OWNER IS MONTH.G.P
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS MACH.PLAN.REAL.P

MANDATORY AUTOMATIC

KEY IS ASCENDING PLAN.BEGIN.DATE

SET SELECTION THRU MMPRLP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MLFAILP

OWNER IS MACHINE.LIST.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS FAILURE.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MLFAILP

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS MLMDTLP .

OWNER IS MACHINE.LIST.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MAINT.DETAIL.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MLMDTLP

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS MLMPLANP

OWNER IS MACHINE.LIST.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MAINT.PLAN.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MLMPLANP

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS SPDSPLP

OWNER IS SPARE.PARTS.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS DEMAND.SUPPLY.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU SPDSPLP

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS SPRNP

OWNER IS SPARE.PARTS.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS R.N.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU SPRNP

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS SUPLRNP.

OWNER IS SUPPLIER.MACH.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS R.N.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU SUPLRNP

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS SPOSP

OWNER IS SPARE.PARTS.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS ORDER.SHIP.P

MANDATORY AUTOMATIC

KEY IS ASCENDING ORDER.DATE

SEARCH KEY IS SUPPLIER.CODE

SET SELECTION THRU SPOSP

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS SPLOSP

OWNER IS SUPPLIER.MACH.P
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS ORDER.SHIP.P

MANDATORY AUTOMATIC

KEY IS ASCENDING ORDER.DATE

SEARCH KEY IS SUPPLIER.CODE

SET SELECTION THRU SPLOSP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MPLSPP

OWNER IS MAINT.PLAN.P ORDER IS PERMANENT IMMATERIAL

MEMBER IS SPARE.PARTS.P

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU MPLSPP

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS JOURFAP

OWNER IS JOURNAL.ACCOUNT.P
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS FIXED.ASSETS.P

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU JOURFAP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JOURPRP

OWNER IS JOURNAL.ACCOUNT.P
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PAY.ROLL.P

MANDATORY MANUAL
LINKED TO OWNER
SET SELECTION THRU JOURPRP
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS DDPRRLP

OWNER IS DEPT.DATA.P
ORDER IS PERMANENT IMMATERIAL

MEMBER IS PRODUCTION.REAL.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU DDPRLP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS DCFXASP

OWNER IS DEPT.COST.P
ORDER IS PERMANENT IMMATERIAL

MEMBER IS FIXED.ASSETS.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU DCFXASP

OWNER IDENTIFIED BY CURRENT OF SET

### SET NAME IS PRMPRLP .

OWNER IS PRODUCTION.REAL.P
ORDER IS PERMANENT IMMATERIAL

MEMBER IS MACH.PLAN, REAL.P

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU PRMPRLP

OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS MUMLP

OWNER IS MACHINE.USAGE.P
ORDER IS PERMANENT IMMATERIAL

MEMBER IS MACHINE.LIST.P

MANDATORY MANUAL
LINKED TO OWNER
SET SELECTION THRU MUMLP
OWNER IDENTIFIED BY CURRENT OF SET

### SET NAME IS MPWUDSP

OWNER IS MANPOWER.USAGE.P
ORDER IS PERMANENT IMMATERIAL

MEMBER IS DEPT.STATISTICS.P

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MPWUDSP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MCPRRLP

OWNER IS MODEL.COST.P
ORDER IS PERMANENT IMMATERIAL

MEMBER IS PRODUCTION.REAL.P

MANDATORY MANUAL

LINKED TO ONWER

SET SELECTION THRU MCPRRLP

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS PRPLRPP

OWNER IS PRODUCTION.REAL.P
ORDER IS PERMANENT IMMATERIAL

MEMBER IS PLAN.REAL.P

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU PRPLRPP

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS BLDCP

OWNER IS BUDGET.LEVEL.P ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS DEPT.COST.P

MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU BLDCP
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS WHRM

OWNER IS WAREHOUSE.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS REMAINDER.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU WHRM

OWNER IDENTIFIED BY DATA BASE KEY

### SET NAME IS PIRM

OWNER IS PART.ID.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS REMAINDER.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PIRM

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PLMAM

OWNER IS PART.ID.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MONTH.A.M

MANDATORY AUTOMATIC

KEY IS ASCENDING YEAR

SEARCH KEY IS MONTH

SET SELECTION THRU PLMAM

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PRLM

OWNER IS PART.ID.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS R.L.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PRLM

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS SRLM

OWNER IS SUPPLIER.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS R.L.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU SRLM

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS POPM

OWNER IS PART.ID.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS OUT.PACK.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU POPM

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PIPM

OWNER IS PART.ID.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS IN.PACK.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PIPM

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS MADEMM

OWNER IS MONTH.A.M
ORDER IS PERMANENT IMMATERIAL

MEMBER IS DEMAND.M

MANDATORY AUTOMATIC

KEY IS ASCENDING SUPPLIER.CODE

SEARCH KEY IS DATE, INVOICE.NO

SET SELECTION THRU MADEMM

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS CUSDMC

OWNER IS CUSTMR.DOMESTIC
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MONTH.C.M

MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU CUSDMC
OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS MADEL

OWNER IS MONTH.A
ORDER IS PERMANENT IMMATERIAL

MEMBER IS DELIVERY

MANDATORY AUTOMATIC

KEY IS ASCENDING CONTRACT.NO

SEARCH KEY IS SUPPLIER.CODE

SET SELECTION THRU MADEL

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MCOCUS

OWNER IS MONTH.C.M
ORDER IS PERMANENT IMMATERIAL

MEMBER IS ORDER.CUSTOMER

MANDATORY AUTOMATIC

KEY IS ASCENDING ORDER.NO

SEARCH KEY IS PART.CODE

SET SELECTION THRU MCOCUSM

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MCDS

OWNER IS MONTH.C.M
ORDER IS PERMANENT IMMATERIAL

MEMBER IS DOMESTIC.SELLS.M

MANDATORY MANUAL

KEY IS ASCENDING DELIVERY.DATE

SEARCH KEY IS PART.CODE, INVOICE.NO

SET SELECTION THRU MCDS

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS REPME

OWNER IS REPRESENTATIVE
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MONTH.E.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU REPME

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS MERR

OWNER IS MONTH.E.M
ORDER IS PERMANENT IMMATERIAL

MEMBER IS REPR.REAL

MANDATORY AUTOMATIC

KEY IS ASCENDING PART.CODE

SET SELECTION THRU MERR

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MEOCUS

OWNER IS MONTH.E.M
ORDER IS PERMANENT IMMATERIAL

MEMBER IS ORDER.CUSTOMER

MANDATORY AUTOMATIC

KEY IS ASCENDING ORDER.NO

SEARCH KEY IS PART.CODE

SET SELECTION THRU MEOCUS

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MEDS

OWNER IS MONTH.E.M
ORDER IS PERMANENT IMMATERIAL

MEMBER IS DOMESTIC.SELLS

MANDATORY MANUAL

KEY IS ASCENDING DELIVERY.DATE

SEARCH KEY IS PART.CODE, INVOICE.NO

SET SELECTION THRU MEDS

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS PPROT

OWNER IS PART.ID.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PRICE.QUOT

MANDATORY AUTOMATIC
LINKED TO OWNER
SET SELECTION THRU PPRQT
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS COMQT

OWNER IS COMPETITORS
ORDER IS PERMANENT. SORTED BY DATA BASE KEY

MEMBER IS PRICE.QUOT

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU COMQT

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS CUSEMD

OWNER IS CUSTMR.EXPORT
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MONTH.D.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU CUSEMD

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS MDOEX

OWNER IS MONTH.D.M
ORDER IS PERMANENT IMMATERIAL

MEMBER IS ORDER.EXPORT

MANDATORY AUTOMATIC

LINKED TO OWNER

SEARCH KEY IS PART.CODE, ORDER.NO

SET SELECTION THRU MDOEX

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MDEXR

OWNER IS MONTH.D.M
ORDER IS PERMANENT IMMATERIAL

MEMBER IS EXPORT.REAL

MANDATORY AUTOMATIC

LINKED TO OWNER

SEARCH KEY IS INVOICE.DATE, INVOICE.NO, PART.CODE

SET SELECTION THRY MDEXR

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS PIRR

OWNER IS PART.ID.M
ORDER IS PERMANENT BY DATA BASE KEY

MEMBER IS REPR.REAL

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PIRR

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS PIOC

OWNER IS PART.ID.M
ORDER IS PERMANENT BY DATA BASE KEY

MEMBER IS ORDER.CUSTOMER

MANDATORY AUTOMATIC

LINKED TO OWNER

SEARCH KEY IS ORDER.NO, PART.CODE

SET SELECTION THRU PIOC

OWNER IDENTIFIED BY CURRENT OF SET

### SET NAME IS PIDS

OWNER IS PART.ID.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS DOMESTIC.SELLS

MANDATORY AUTOMATIC
LINKED TO OWNER
SEARCH KEY IS DELIVERY.DATE.INVOICE.NO
SET SELECTION THRU PIDS
OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS PIOEX

OWNER IS PART.ID.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS ORDER.EXPORT

MANDATORY AUTOMATIC

LINKED TO OWNER

SEARCH KEY IS ORDER.NO

SET SELECTION THRU PIOEX

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS PIER

OWNER IS PART.ID.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS EXPORT.REAL

MANDATORY AUTOMATIC

LINKED TO OWNER

SEARCH KEY IS INVOICE.NO

SET SELECTION THRU PIER

OWNER IDENTIFIED BY CURRENT OF SET

### SET NAME IS DEDEL

OWNER IS DEMAND.M
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS DELIVERY.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SEARCH KEY IS INVOICE.NO

SET SELECTION THRY DEDEL

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS SUPDEM

OWNER IS SUPPLIER.M
ORDER IS PERMANENT SORTED BY DATA BASE KFY

MEMBER IS DEMAND.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU SUPDEM

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS SUPDEL

OWNER IS SUPPLIER.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS DEMAND.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU SUPDEL

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS ILLDM

OWNER IS IMPORT.LICENSE.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS LICENSE.DETAIL.M

MANDATORY AUTOMATIC

KEY IS ASCENDING MATL.CODE

SET SELECTION THRU ILLDM

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS LDIPM

OWNER IS LICENSE.DETAIL.M
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS IMPORT.PREP.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU LDIPM

OWNER IDENTIFIED BY CURRENT OF SET

# SET NAME IS LDIRM

OWNER IS LICENSE.DETAIL.M
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS IMPORT.REAL.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU LDIRM

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS IPIRM

OWNER IS IMPORT.PREP.M
ORDER IS PERMANENT IMMATERIAL

MEMBER IS IMPORT.REAL.M

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU IPIRM

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS BTBFM

OWNER IS BS.TOTAL.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BS.FORMAT.M

MANDATORY AUTOMATIC

KEY IS ASCENDING LINE.NO

SET SELECTION THRU BTBFM

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS BFBAM

OWNER IS BS.FORMAT.M
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BS.ACCOUNT.M

MANDATORY AUTOMATIC

KEY IS ASCENDING LINE.NO

SET SELECTION THRU BFBAM

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS PRPFM

OWNER IS PL.RESULT.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PL.FORMAT.M

MANDATORY AUTOMATIC

KEY IS ASCENDING LINE.NO

SET SELECTION THRU PRPFM

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS PFPAM

OWNER IS PL.FORMAT.M
ORDER IS PERMANENT BY DEFINED KEYS

MEMBER IS PL.ACCOUNT.M

MANDATORY AUTOMATIC

KEY IS ASCENDING LINE.NO

SET SELECTION THRU PFPAM

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS LASAM

OWNER IS LEDGER.ACCNT.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS SUBSDR.ACCNT.M

MANDATORY AUTOMATIC

KEY IS ASCENDING ACCOUNT.NO

SET SELECTION THRU LASAM

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS SAJAM

OWNER IS SUBSDR.ACCNT.M
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS JOURNAL.ACCNT.M

MANDATORY AUTOMATIC

KEY IS ASCENDING ACCOUNT.NO

SET SELECTION THRU SAJAM

OWNER IDENTIFIED BY CURRENT OF SET

### SET NAME IS JAMHM

OWNER IS JOURNAL.ACCNT.M
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS MONTH.H.M

MANDATORY AUTOMATIC

KEY IS ASCENDING YEAR

SEARCH KEY IS MONTH

SET SELECTION THRU JAMHM

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MHJM

OWNER IS MONTH.H.M
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS JOURNAL.M

MANDATORY AUTOMATIC

KEY IS ASCENDING DATE

SEARCH KEY IS TRANSACT.NO

SET SELECTION THRU MHJM

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS CRGETM

OWNER IS CREDIT.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CREDIT.GET.M

MANDATORY AUTOMATIC

LINKED TO OWNER

KEY IS ASCENDING DATE

SET SELECTION THRU CRGETM

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS CRPAYM

OWNER IS CREDIT.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CREDIT.PAY.M

MANDATORY AUTOMATIC

LINKED TO OWNER

KEY IS ASCENDING DATE

SET SELECTION THRU CRPAYM

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS BDBTM

OWNER IS BUDGET. DATE. M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BUDGET.TOTAL.M

MANDATORY AUTOMATIC

KEY IS ASCENDING ACCOUNT.NO

SET SELECTION THRU BDBTM

OWNER IDENTIFIED BY DATA BASE KEY

## SET NAME IS BTBLM

OWNER IS BUDGET.TOTAL.M
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BUDGET.LEVEL.I.M

MANDATORY AUTOMATIC

KEY IS ASCENDING LEVEL.NO

SET SELECTION THRU BTBLM

### SET NAME IS BLABLBM

OWNER IS BUDGET.LEVEL.I.M
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BUDGET.LEVEL.Z.M

MANDATORY MANUAL

KEY IS ASCENDING LEVEL.NO

SET SELECTION THRU BLABLBM

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS PBONDM

OWNER IS PAYABLES.M ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BOND.DETAIL.M

MANDATORY MANUAL

KEY IS ASCENDING ENDORSE.DATE

SEARCH KEY IS RECEIV.DATE

SET SELECTION THRU PBONDM

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS RBONDM

OWNER IS RECEIVABLES.M ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BOND.DETAIL.M

MANDATORY MANUAL

KEY IS ASCENDING ENDORSE.DATE

SEARCH KEY IS RECEIV.DATE

SET SELECTION THRU RBONDM

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JLBSM

OWNER IS JOURNAL.ACCNT.M
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BANKS.M

MANDATORY MANUAL

KEY IS ASCENDING BANK.CODE

SET SELECTION THRU JLBSM

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JLCTM

OWNER IS JOURNAL.ACCNT.M
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS CREDIT.M

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU JLBSM

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JLPSM

OWNER IS JOURNAL.ACCNT.M
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PAYABLES.M

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU JLPSM

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JLRSM

OWNER IS JOURNAL.ACCNT.M
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS RECEIVABLES.M

MANDATORY MANUAL
LINKED TO OWNER
SET SELECTION THRU JLRSM
OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS MHBLLM

OWNER IS MONTH.H.M
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS BUDGET.LEVEL.Z.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MHBLLM

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS JAPLAM

OWNER IS JOURNAL.ACCNT.M
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PL.ACCOUNT.M

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU JAPLAM

OWNER IDENTIFIED BY CURRENT OF SET

## SET NAME IS LABSAM ...

OWNER IS LEDGER.ACCNT.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS BS.ACCNT.M

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU LABSAM

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS BNCRTM

OWNER IS BANKS.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CREDIT.M

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU BNCRTM

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS BNILCM

OWNER IS BANKS.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS IMPORT.LICENSE.M

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU BNILCM

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS BNIPRM

OWNER IS BANKS.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS IMPORT.PREP.M

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU BNIPRM

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS BNCDPM

OWNER IS BANKS.M ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS CERTF.DEPOSIT.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU BNCDPM

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS SDPPE

OWNER IS SHIPMT. DETAIL
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PAYM.PLAN.EXP

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU SDPPE

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS PERSEDM

OWNER IS PERSONNEL.LIST.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS EDUCATION.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSEDM

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS PERSREFM

OWNER IS PERSONNEL.LIST.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS REFERENCES.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSREFM

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS PERSPWM

OWNER IS PERSONNEL.LIST.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PREVIOUS.WORK.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSPWM

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS PERSFIM

OWNER IS PERSONNEL.LIST.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS FAMILY.INFO.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSFIM

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS PERSEXM

OWNER IS PERSONNEL.LIST.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS EXPERIENCE.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSEXM

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS PERSAWM

OWNER IS PERSONNEL.LIST.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS ACTUAL.WORK.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSAWM

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS DEPTAWM

OWNER IS DEPT.STATISTICS.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS ACTUAL.WORK.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU DEPTAWM

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS PERSPRM

OWNER IS PERSONNEL.LIST.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PAY.ROLL.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU PERSPRM

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS DEPTMFM

OWNER IS DEPT.STATISTICS.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MONTH.F.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU DEPTMFM

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS MFPRM

OWNER IS MONTH.F.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PLAN.REAL.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MFPRM

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS MPUSEM

OWNER IS MACHINE.LIST.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS PREVIOUS.USE.M

MANDATORY AUTOMATIC

KEY IS ASCENDING REGION.CODE

SET SELECTION THRU MPUSEM

OWNER IDENTIFIED BY DATA BASE KEY

### SET NAME IS MMONGM

OWNER IS MACHINE.LIST.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MONTH.G.M

MANDATORY AUTOMATIC

KEY IS ASCENDING YEAR

SEARCH KEY IS MONTH

SET SELECTION THRU MMONGM

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS MGPUSM

OWNER IS MONTH.G.M
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PRESENT.USE.M

MANDATORY AUTOMATIC

KEY IS ASCENDING WORKSITE.CODE

SET SELECTION THRU MGPUSM

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS MGPLANM

OWNER IS MONTH.G.M
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PLAN.M

MANDATORY AUTOMATIC

KEY IS ASCENDING WORKSITE.CODE

SET SELECTION THRU MGPLANM

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS MMPRLM

OWNER IS MONTH.G.M
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS MACH.PLAN.REAL.M

MANDATORY AUTOMATIC

KEY IS ASCENDING PLAN.BEGIN.DATE

SET SELECTION THRU MMPRLM

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS MLFAILM

OWNER IS MACHINE.LIST.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS FAILURE.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MLFAILM

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS MLMDTLM

OWNER IS MACHINE.LIST.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MAINT.DETAIL.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MLMDTLM

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS MLMPLANM

OWNER IS MACHINE, LIST.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS MAINT.PLAN.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU MLMPLANM

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS SPDSPLM

OWNER IS SPARE.PARTS.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS DEMAND.SUPPLY.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU SPDSPLM

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS SPRNM

OWNER IS SPARE.PARTS.M ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS R.N.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU SPRNM

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS SUPLRNM

OWNER IS SUPPLIER.MACH.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS R.N.M

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU SUPLRNM

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS SPOSM

OWNER IS SPARE.PARTS.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS ORDER.SHIP.M

MANDATORY AUTOMATIC

KEY IS ASCENDING ORDER.DATE

SEARCH KEY IS SUPPLIER.CODE

SET SELECTION THRU SPOSM

OWNER IDENTIFIED BY DATA BASE KEY

#### SET NAME IS SPLOSM

OWNER IS SUPPLIER.MACH.M
ORDER IS PERMANENT SORTED BY DATA BASE KEY

MEMBER IS ORDER.SHIP.M

MANDATORY AUTOMATIC

KEY IS ASCENDING ORDER.DATE

SEARCH KEY IS SUPPLIER.CODE

SET SELECTION THRU SPLOSM

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS MPLSPM

OWNER IS MAINT.PLAN.M
ORDER IS PERMANENT IMMATERIAL

MEMBER IS SPARE.PARTS.M

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU MPLSPM

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS JOURFAM

OWNER IS JOURNAL.ACCNT.M
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS FIXED.ASSETS.M

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU JOURFAM

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS JOURPRM

OWNER IS JOURNAL.ACCNT.M
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PAY.ROLL.M

MANDATORY MANUAL

LINKED TO OWNER

SET SELECTION THRU JOURPRM

OWNER IDENTIFIED BY CURRENT OF SET

#### SET NAME IS DSPPD

OWNER IS DOMESTIC.SELLS
ORDER IS PERMANENT SORTED BY DEFINED KEYS

MEMBER IS PAYM.PLAN.DOMST

MANDATORY AUTOMATIC

LINKED TO OWNER

SET SELECTION THRU DSPPD

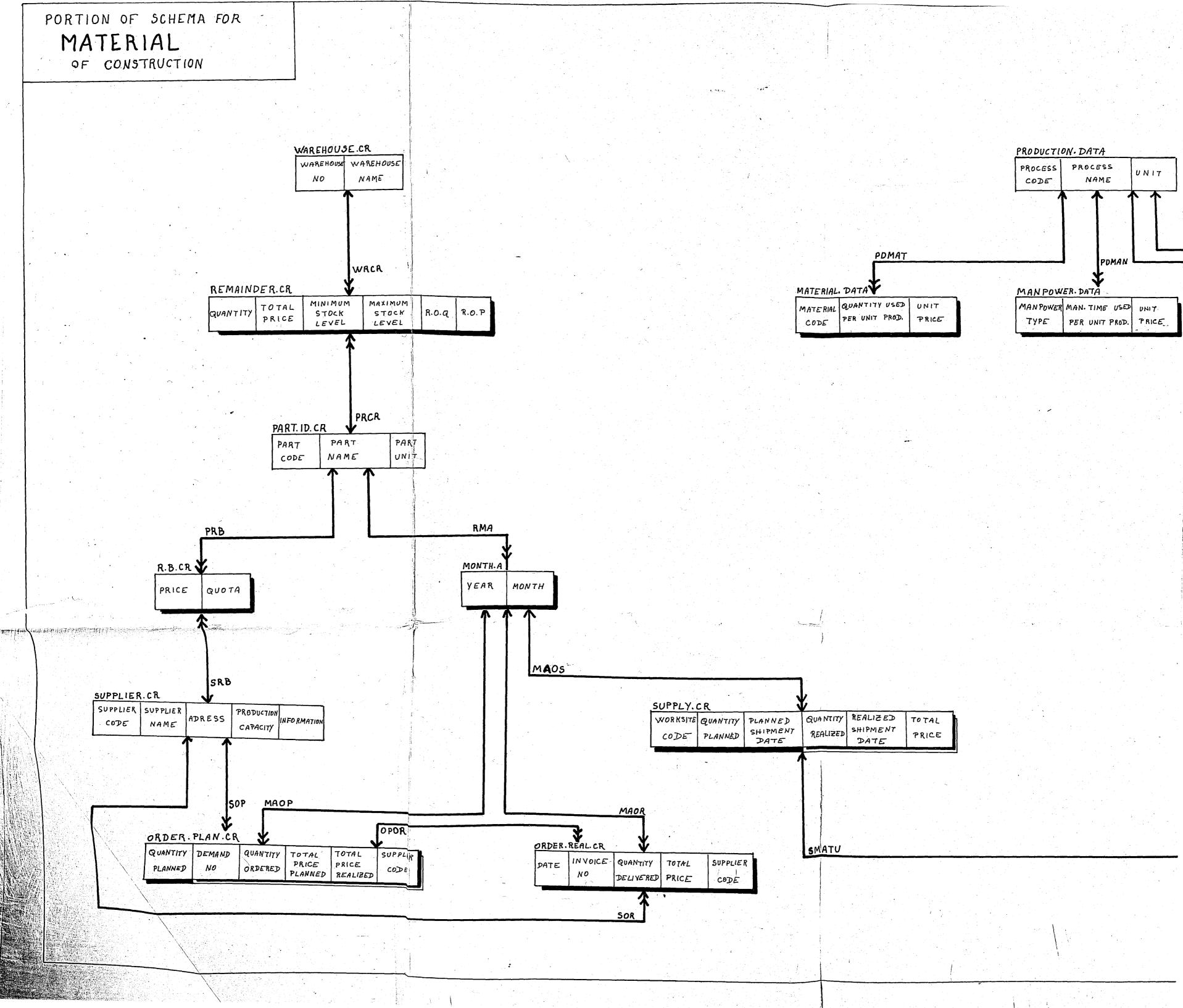
OWNER IDENTIFIED BY CURRENT OF SET

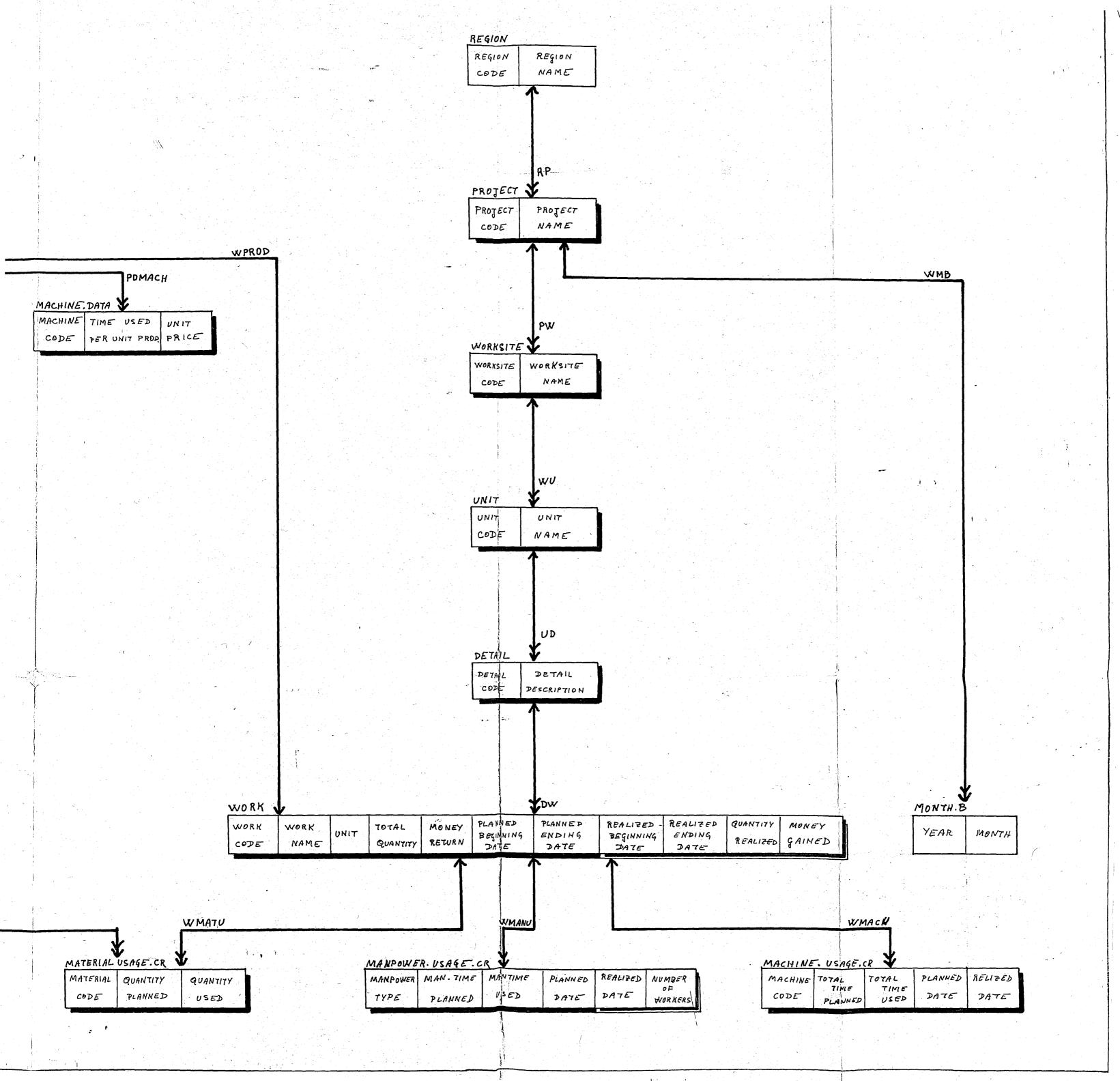
# APPENDIX C

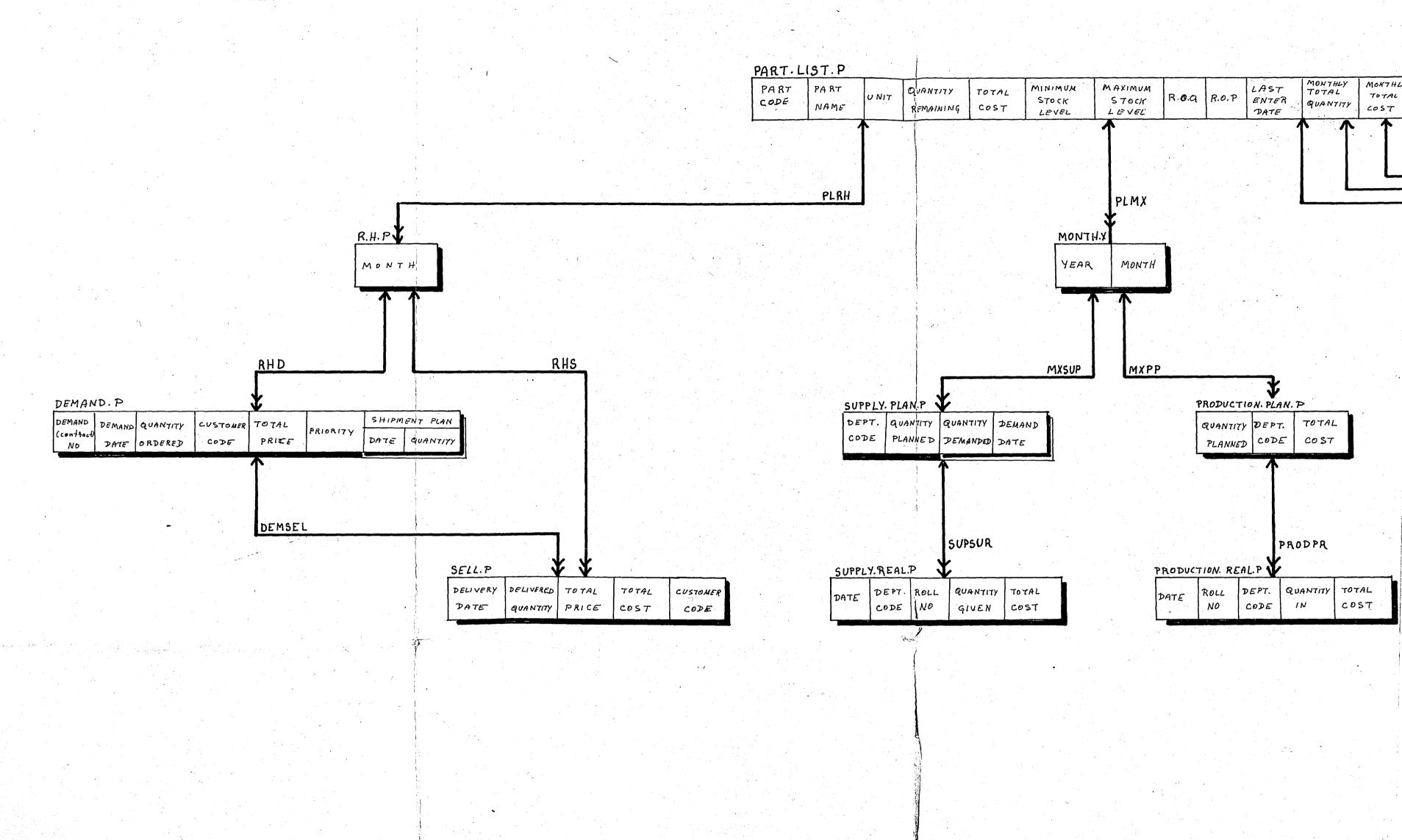
THE SCHEMA REPRESENTATION

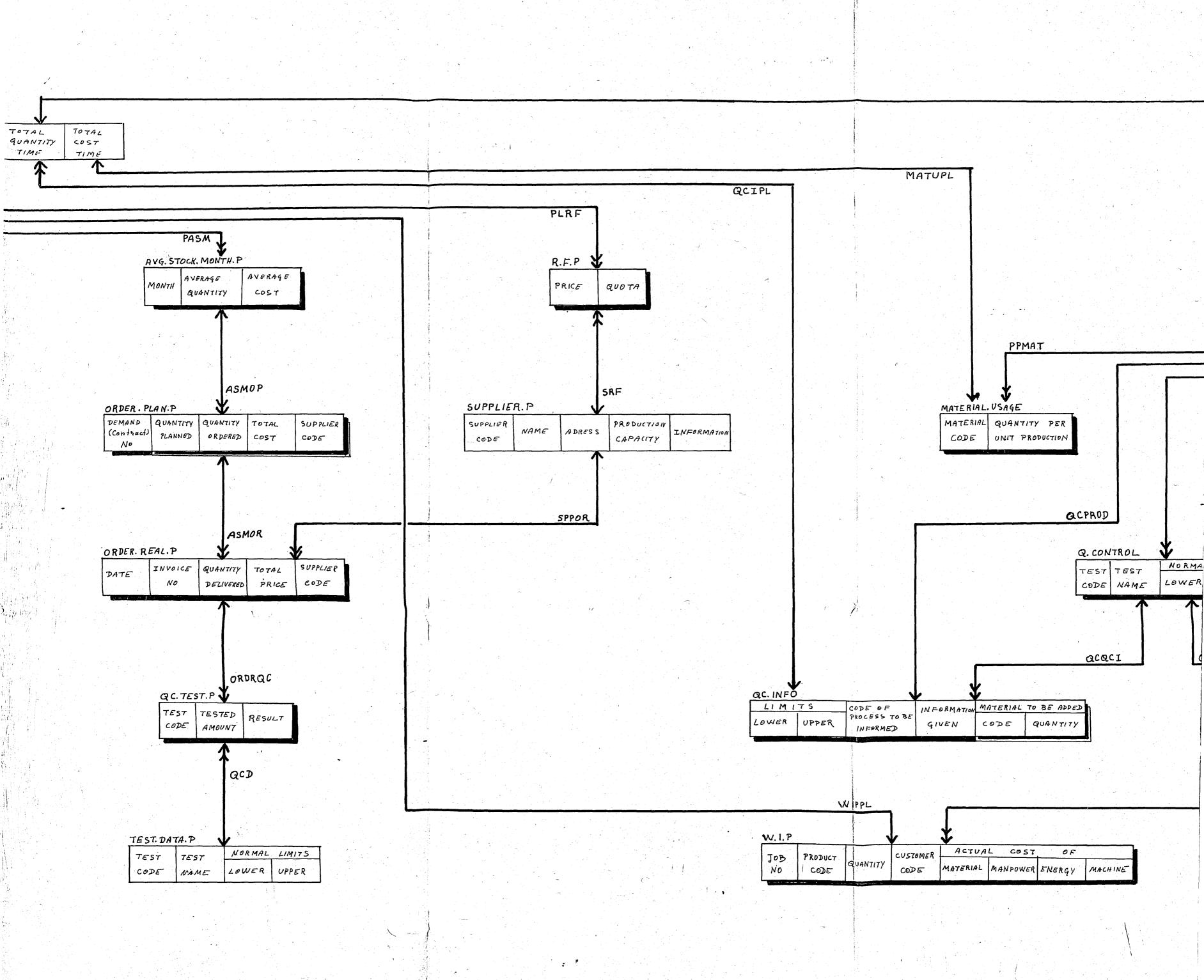


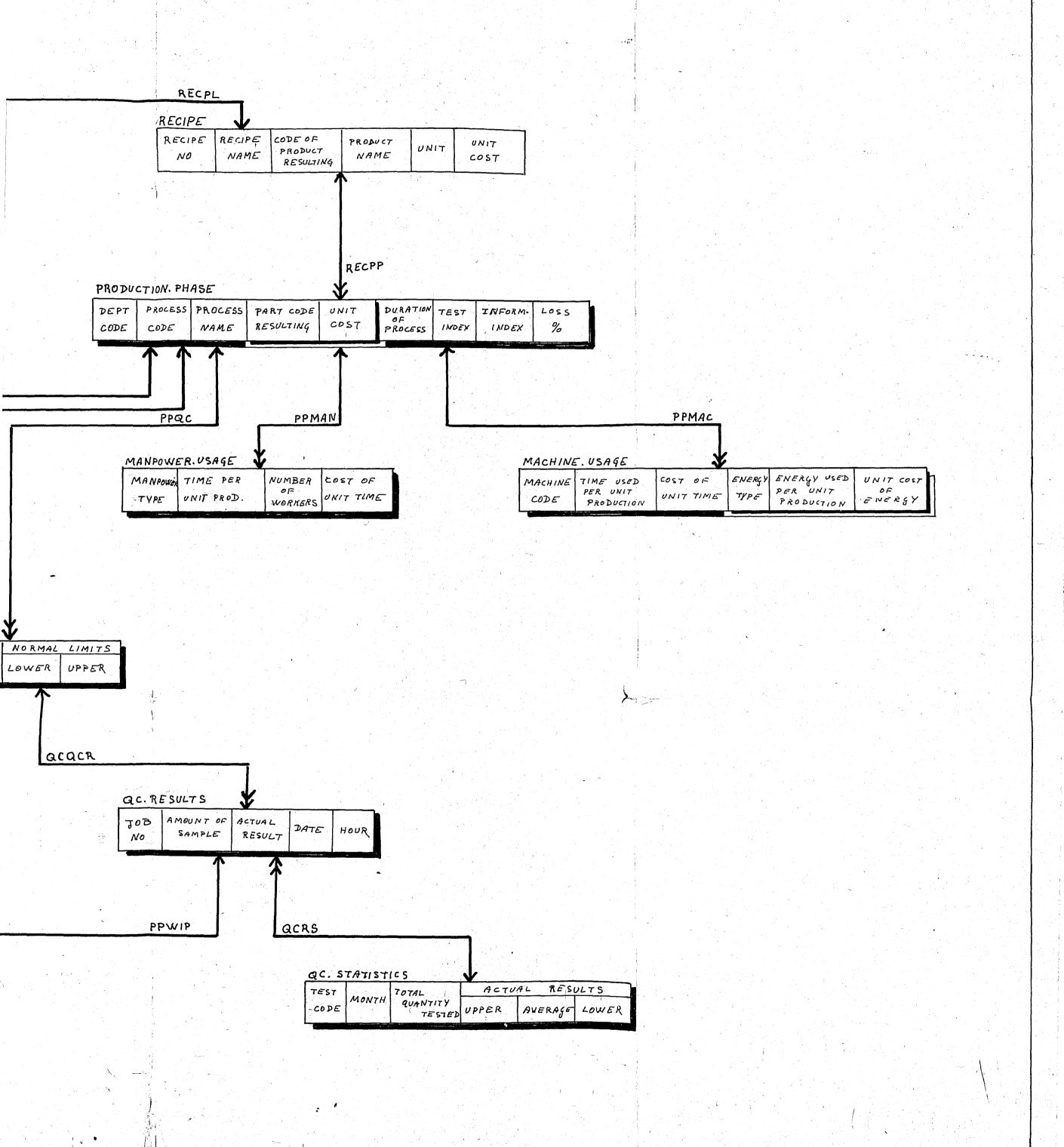




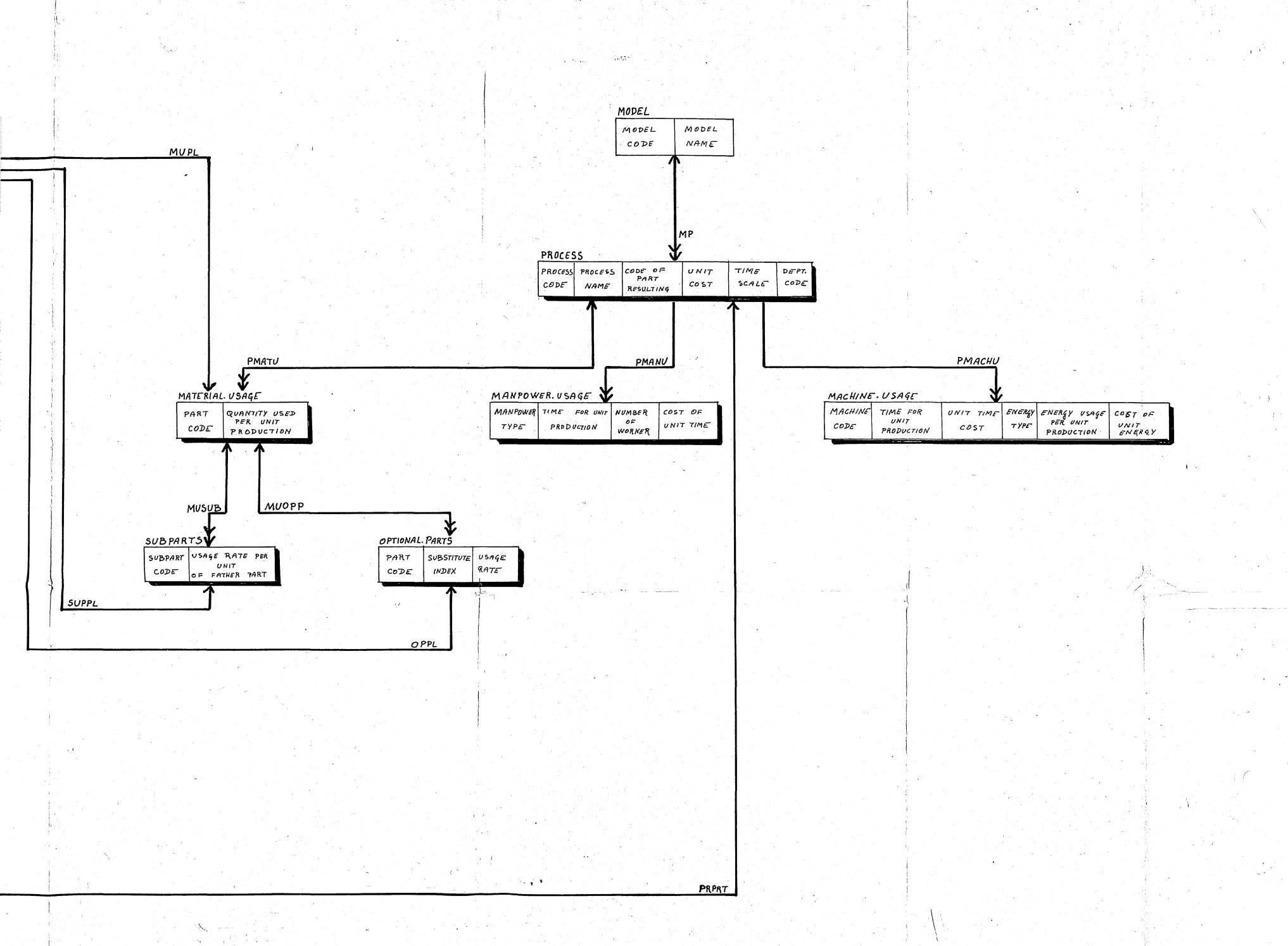


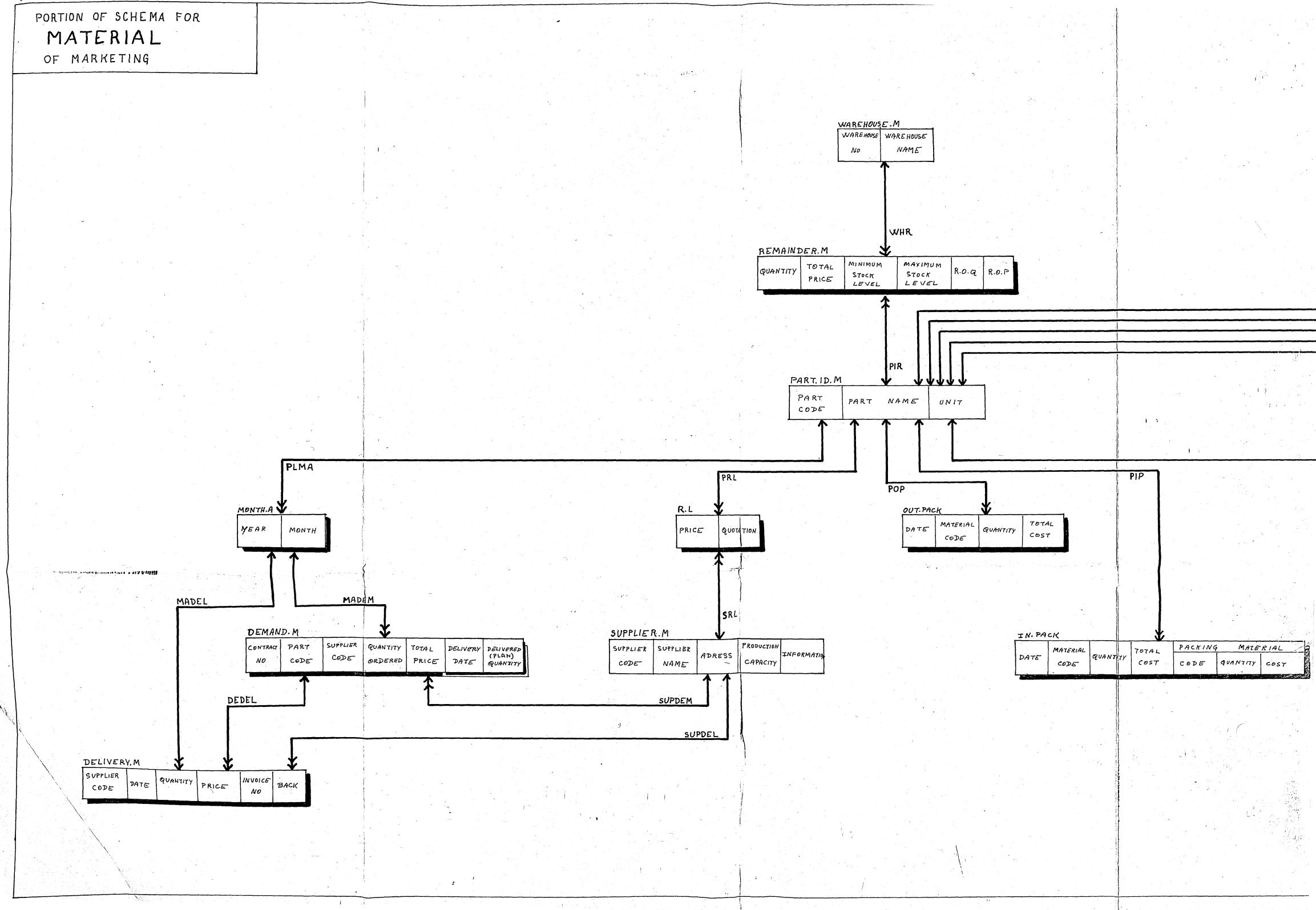


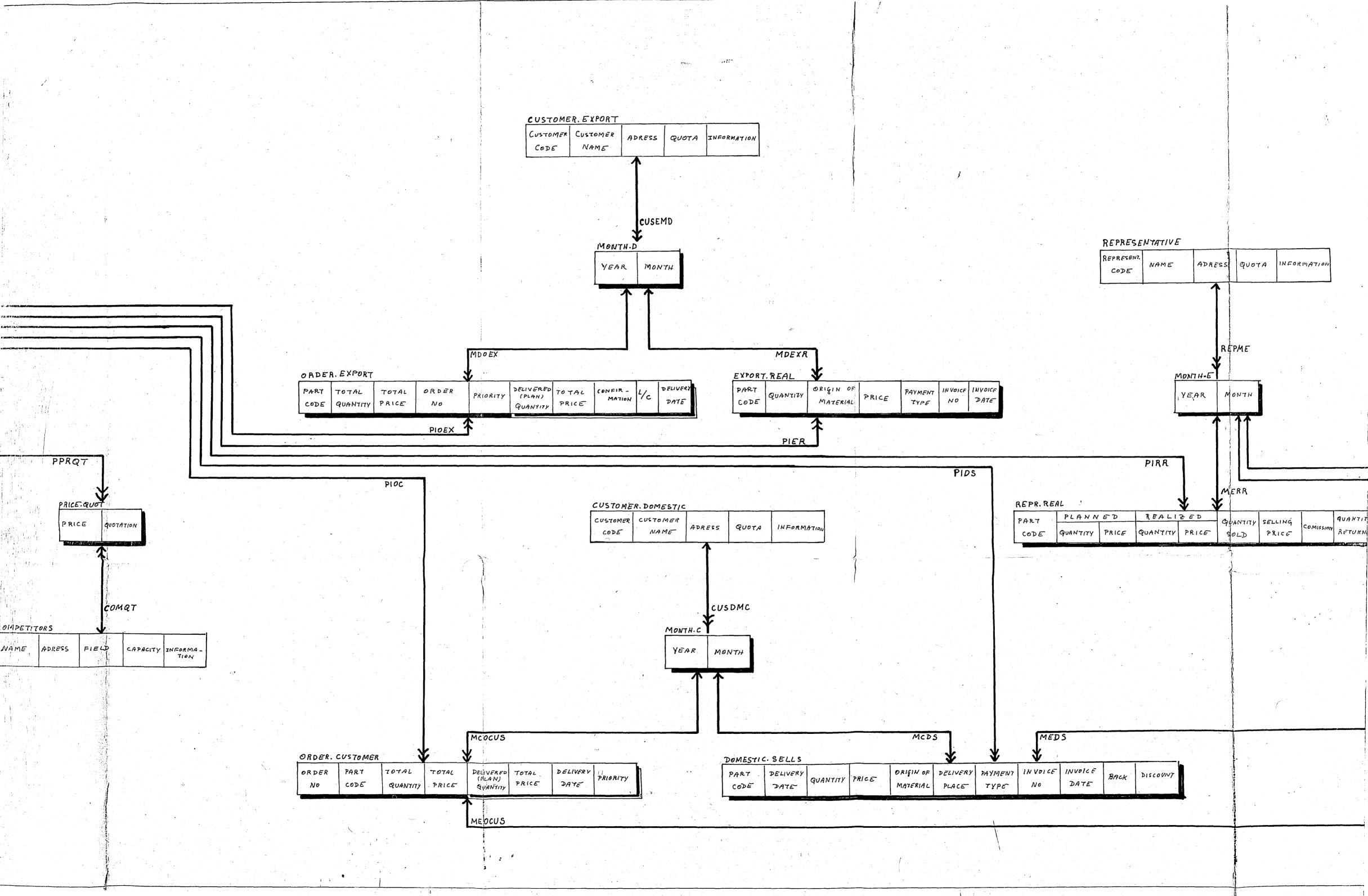


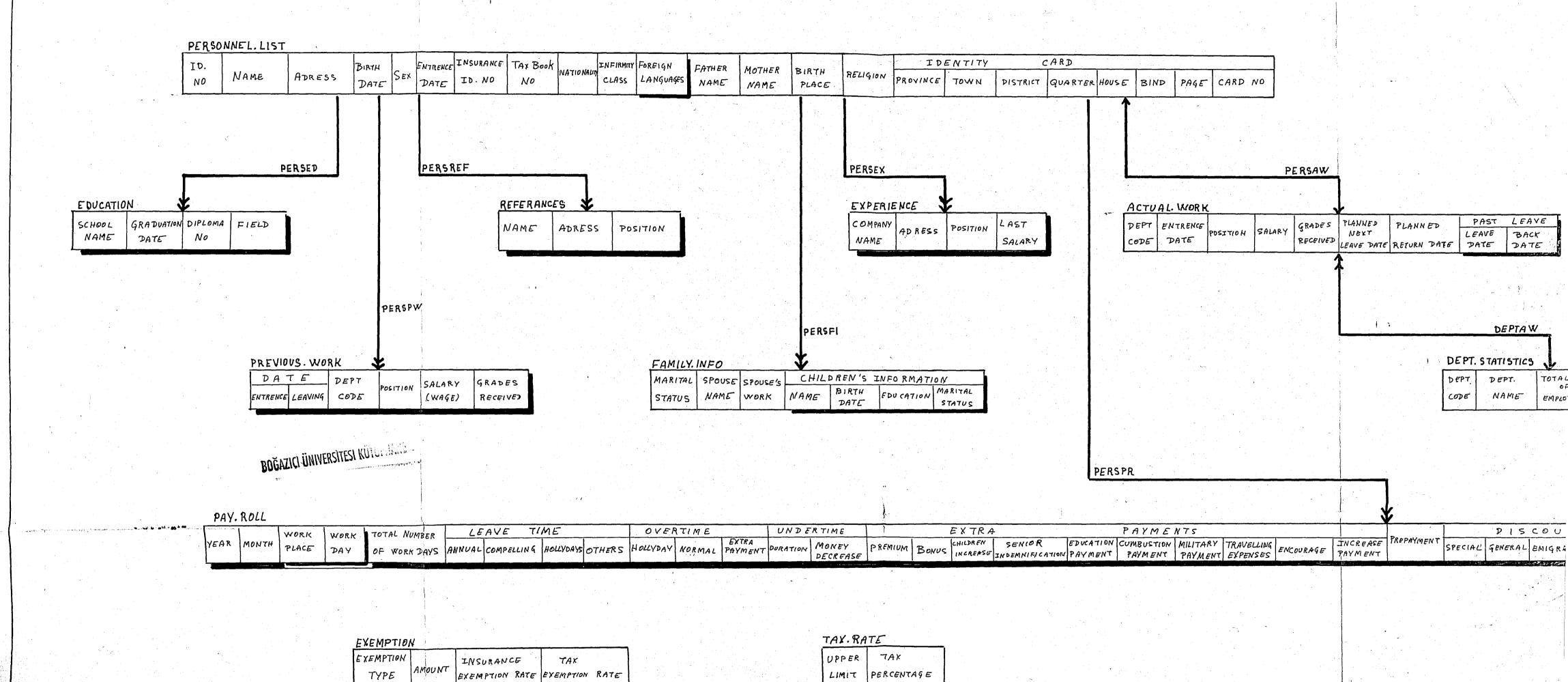


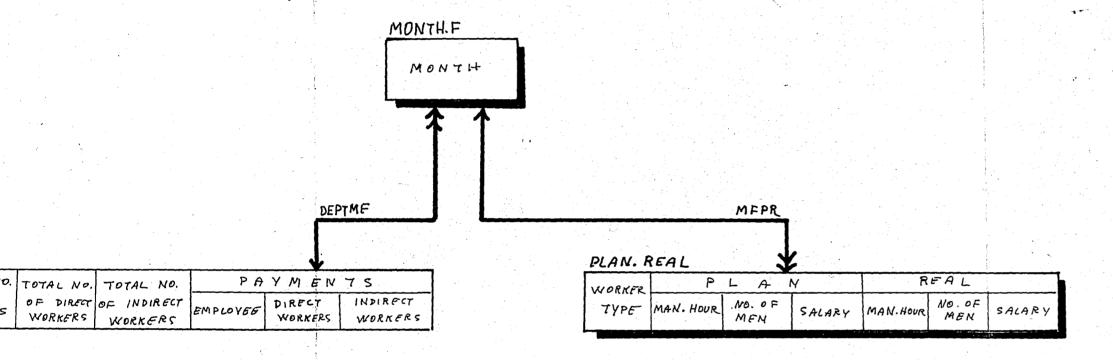
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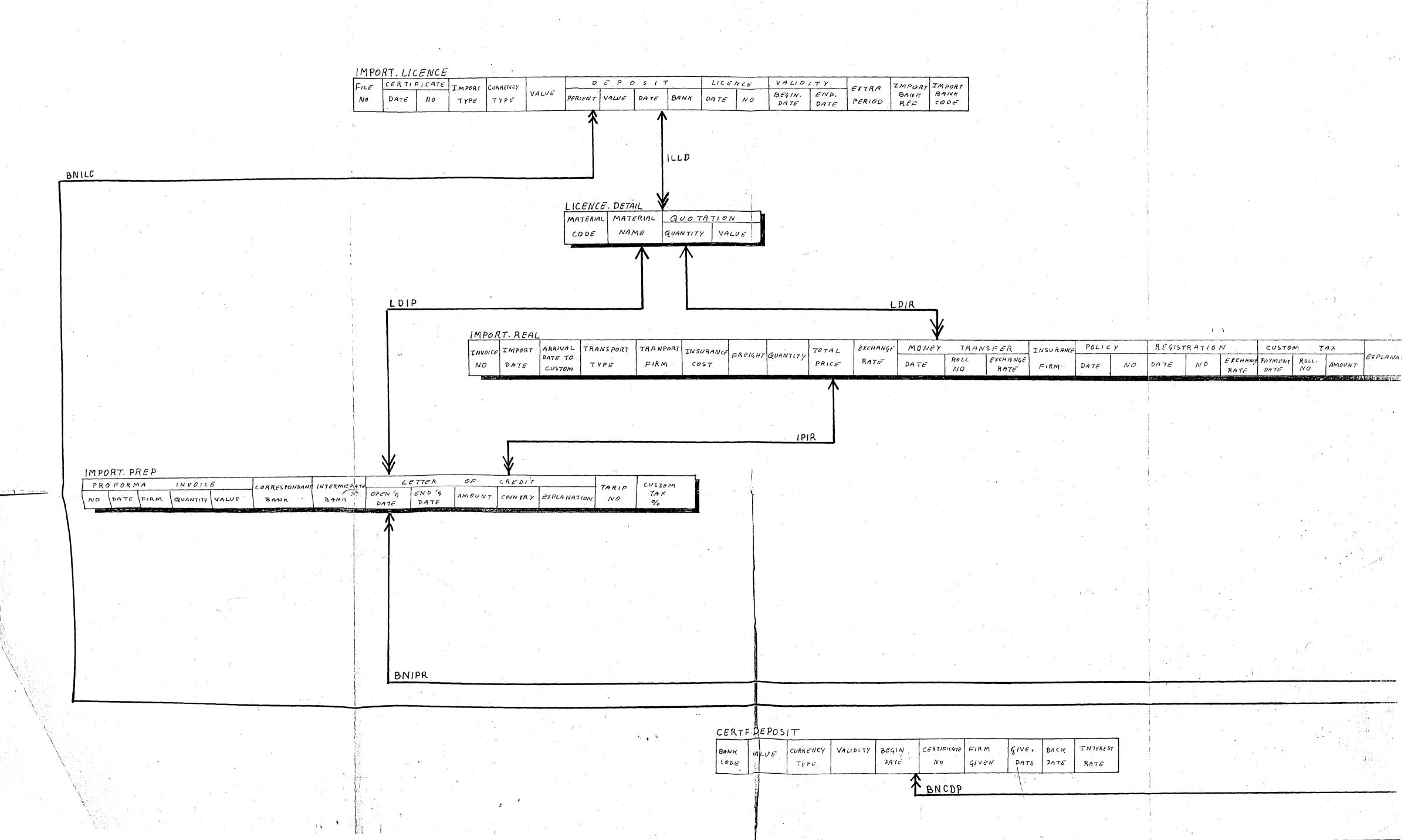


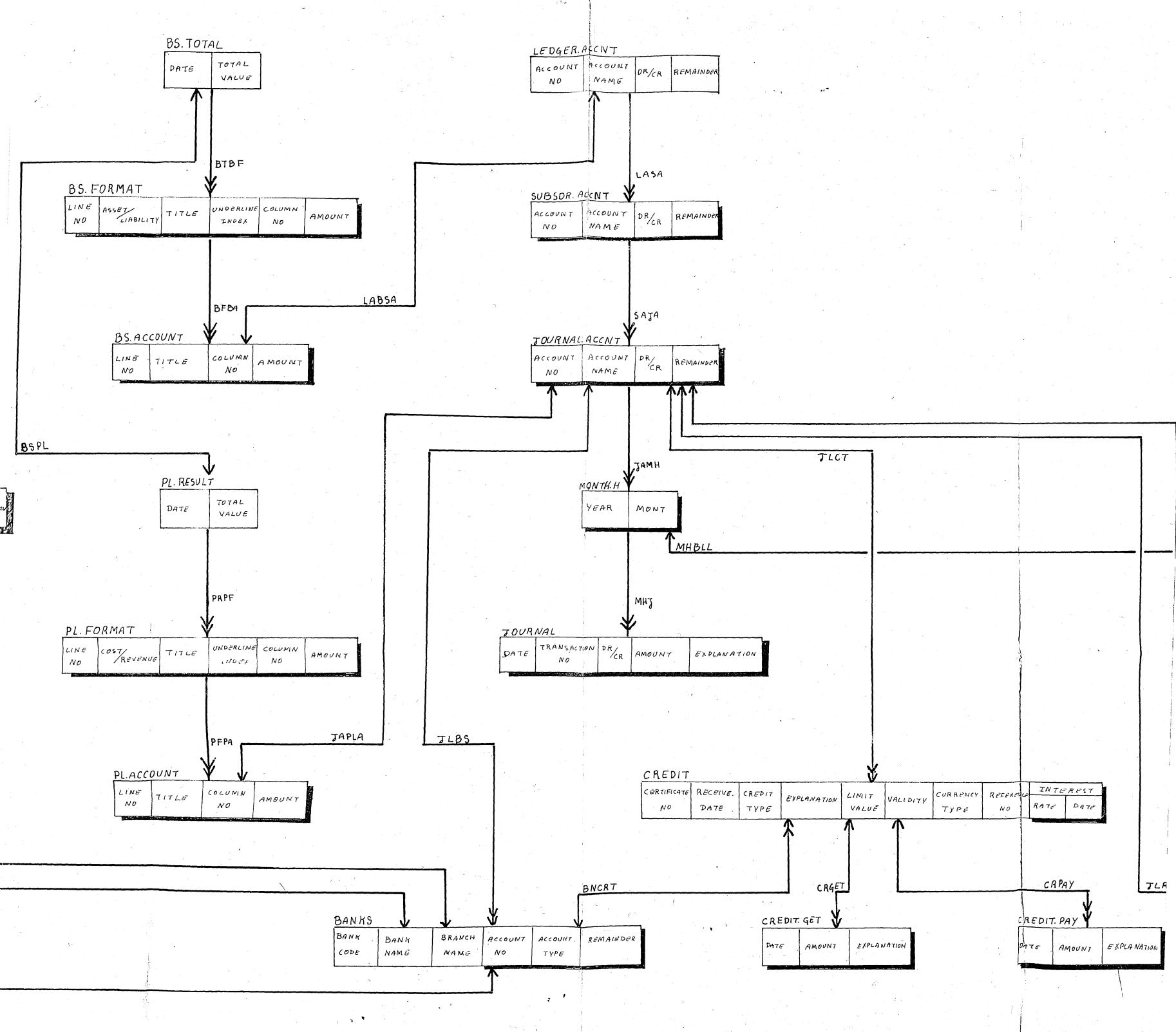


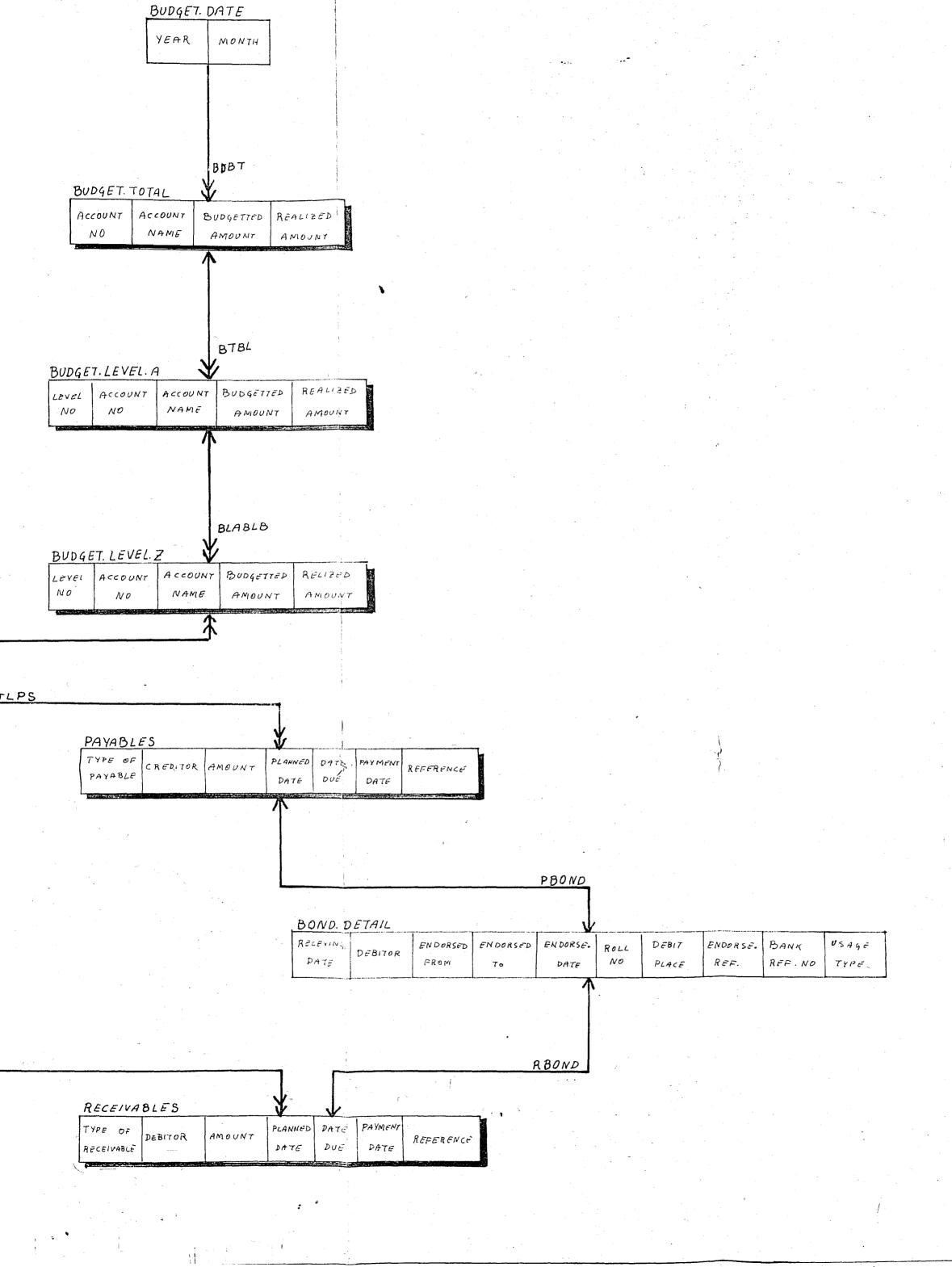


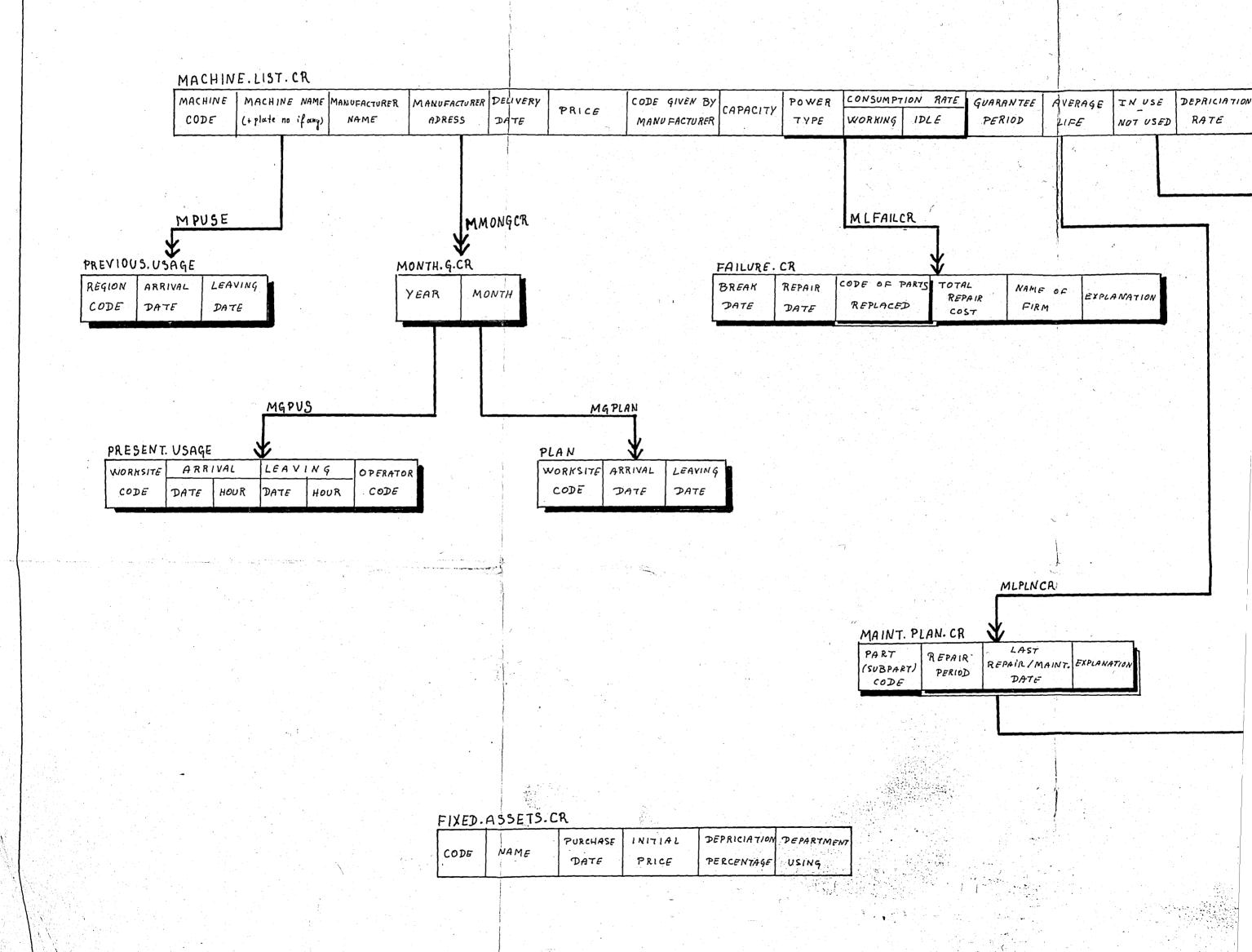


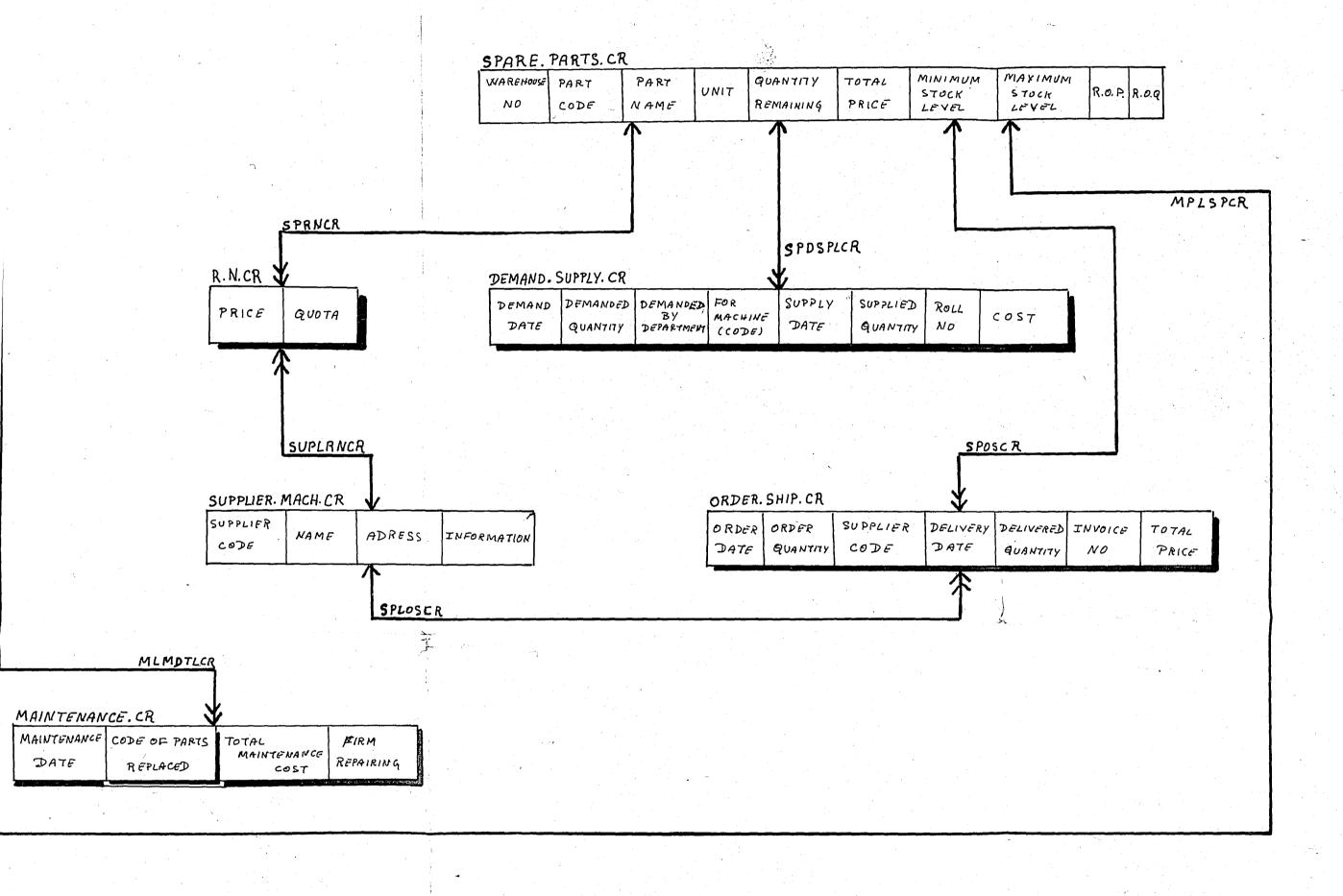
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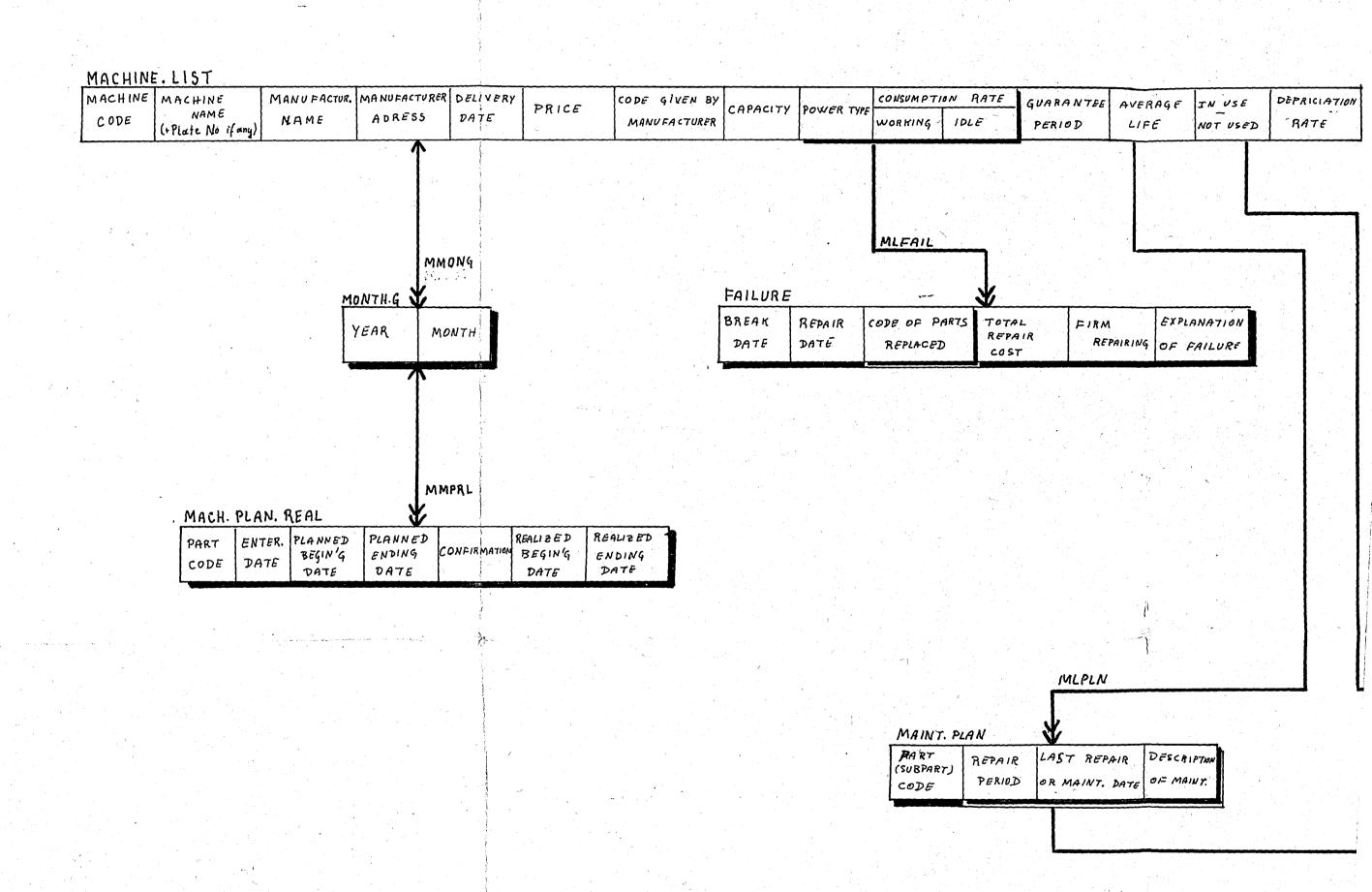






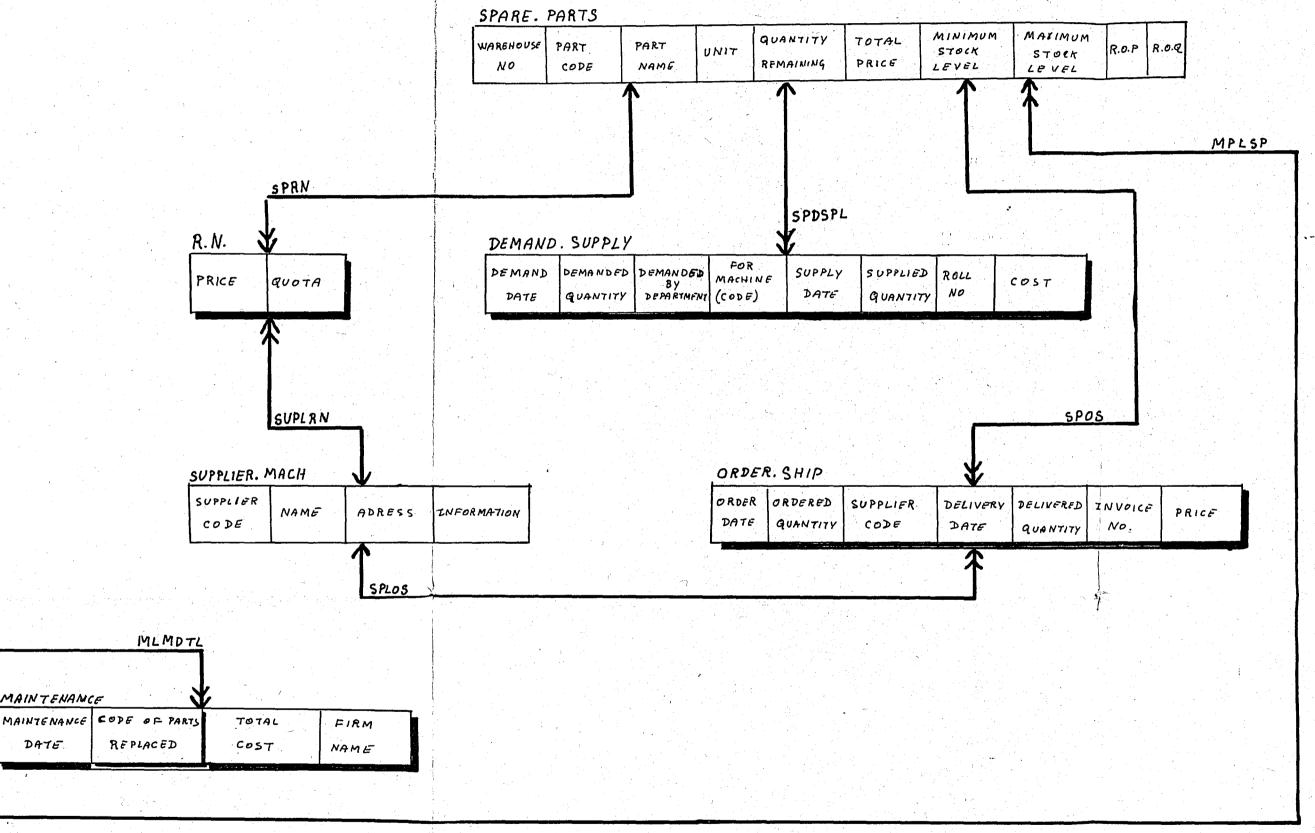
# PORTION OF SCHEMA FOR MACHINE

OF TRUCK , PAINT & MARKETING



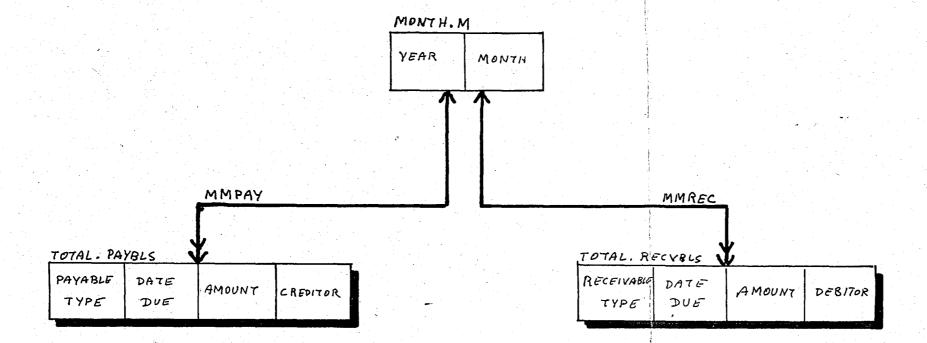
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## BIBLIOGRAPHY

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  - 7. Hersan Construction and Trade Inc., Hesap Plani
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  - 9. Has Holding Muhasebe Kontrol El Kitabí