ASG-DataManager™
Using DataManager Under TSO/ISPF

Version: 2.5

Publication Number: DMR0200-25-ISPFU

Publication Date: December 1986

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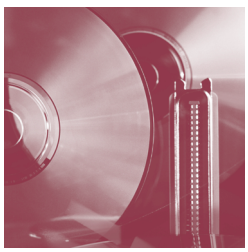

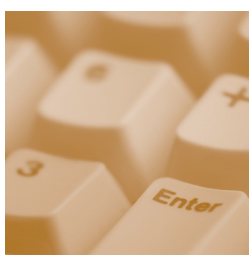

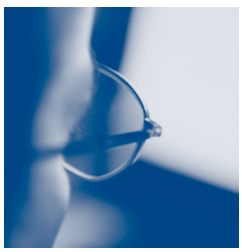

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msp User Notice

DATAMANAGER

Using DATAMANAGER under TSO/ISPF

Notice Number
2

Date of Issue: 11.92

Number of pages in this issue: 3

This notice relates to the following releases:

CONTROLMANAGER Version 02 Release 2.0
DATAMANAGER Version 01 Release 8.0
DICTIONARYMANAGER Version 02 Release 2.0
DESIGNMANAGER Version 01 Release 4.2
SOURCEMANAGER Version 02 Release 2.0

If there are any queries regarding this notice, please telephone your local MSP Product Supplier at the number given at the front of your MANAGER Products binder or in the 'MSP and its Products' branch of InfoBank.

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Item 1

Access to InfoBank

You can now use the MANAGER Products online help system, InfoBank, from your TSO/ISPF environment. You can use all the functions of InfoBank (such as navigation and text searching) and you can access all of the InfoBank contents.

Entry to InfoBank is available via **option H** on the MANAGER Products Primary Option Menu in TSO/ISPF.

You can also directly access a particular subject branch in InfoBank, providing in-context help. This facility is available via the **IHELP** command in TSO/ISPF.

ISPF in-context help panels are still provided. However, more extensive help, and all command-oriented documentation is now available through InfoBank.

Item 2 **Enhanced DB2 Support**

The DB2 CREATE and DB2 PRODUCE panels have been enhanced to allow:

- name-editing, to alter generated data names
- output generation options, to send generated data to external files
- user-specified locations, to support distributed data
- expansions of nested data structures
- user exits.

Additionally, the DB2 PRODUCE panel allows the **FOR SQL** or **FOR WORKING STORAGE** options. You can use these options to choose two-level or multi-level host data structures.

Refer to Chapter 5 of the Relational Technology Support: DB2 manual (MPR-RELDB) for details of the functionality provided by the DB2 CREATE and DB2 PRODUCE panels.

You can now import objects from your DB2 environment, using the following panels:

- **EXTRACT**: this allows you to extract DB2 catalog data dynamically. At the start of a session, you can choose which DB2 subsystem to connect to.

- **RECONCILE**: this reconciles extracted data with data already in the repository. You can interactively change how proposed members will populate the repository.

- **PREVIEW**: this allows you to preview proposed repository definitions which will be used during the populate stage.

- **POPULATE**: this allows you to populate your repository with proposed definitions.

Refer to Chapter 8 of the Relational Technology Support: DB2 manual (MPR-RELDB) for details of the functionality provided by these panels.

Item 3 **Improved Support For LIST ALL STATUSES**

The LIST panel has been extended to allow you to request a member list showing each member's state in all statuses.

For any listed member, you can display:

- the single visible status, using the LIST line command, or
- all statuses, using the LALL line command.

Item 4

Access To PGW/MVW

You can now use the full capabilities of the PWS Graphical Workbench/managerVIEW, including full host connectivity options, from your TSO/ISPF environment. You can use all PGW/MVW facilities including:

- 3270 terminal emulation to link to host MANAGER Products
- using host MANAGER Products concurrently with Diagram Editor functions
- uploading/downloading diagrams and members between the host corporate repository and the PWS local dictionary.

Use of the PWS Graphical Workbench/managerVIEW is available via option W on the MANAGER Products Primary Option Menu in TSO/ISPF.

Note: unlike host MANAGER Products use of PGW/MVW, the "command end" and "line end" characters should be set up by your systems administrator at installation time. Refer to your MANAGER Products ISPF installation manual (DMR-ISPF) for further details.

User Notice

DATAMANAGER

Using DATAMANAGER Under TSO/ISPF

Notice Number
1

Date of Issue: 1 April 1986

Number of pages in this issue: 2

This notice relates to the following releases:

CONTROLMANAGER™ 1.0.0
DATAMANAGER® 5.0.0

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Item 1 **Concerning This Notice**

In response to requests from users, various enhancements have been made to the DATAMANAGER TSO/ISPF Interface facility – selectable unit DMR-FE70. These enhancements are described as items 2, 3 and 4 below.

A new version of the DATAMANAGER TSO/ISPF Interface, which includes these enhancements, is now available on the MANAGER Products fix level release tape which is referred to in Item 4 of the MANAGER Products Systems Administrator's Manual User Notice 2.

Existing users of the DATAMANAGER TSO/ISPF Interface who wish to take advantage of these enhancements should:

- request the new MANAGER Products fix level release tape
- install the new version of the DATAMANAGER TSO/ISPF Interface – the minimum installation requirement to do this is to copy the following data sets from the release tape to disk:
  - MP.LOADLIB (which contains executable versions of CONTROLMANAGER, DATAMANAGER, and the DATAMANAGER TSO/ISPF interface)
  - MP.ISPPLIB, MP.ISPCLIB, MP.ISPSLIB and MP.ISPMLIB (which contain DATAMANAGER TSO/ISPF interface specific data definitions).
- recustomize any CLISTs which were previously tailored as the new version contains amended CLISTs.

Item 2 **Increased Maximum Character Length for Input Records**

The DATAMANAGER MODIFY and ALTER commands will now operate on variable length input records – thus extending the maximum size of input records to 240 characters.

Previous to this enhancement only fixed length 72 character records were permitted.

Item 3 **Immediate Execution of the CONTROLMANAGER Logon Process**

The CONTROLMANAGER logon process is now executed immediately on receipt of a Logon Id and password. An unsuccessful logon attempt will cause a return to the MANAGER Products Logon Option Menu.

Previous to this enhancement the CONTROLMANAGER logon process was not actioned until the user had provided dictionary, authority and status information via the DATAMANAGER Sign-on Panel.

Item 4 **Optional Use of Terminators**

The use of a terminator ('.' or ';') is now optional after any DATAMANAGER command which is entered in interactive mode.

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PREFACE

Amendment List 1 for Edition 2 of this manual is a temporary amendment list. It serves to document the additional support by the CONTROLMANAGER TSO/ISPF Interface (CMR-FE70) for DESIGNMANAGER available with CONTROLMANAGER Release 2.0. **This manual is to be reissued shortly as the MANAGER Products TSO/ISPF Interface manual** (MPR-ISPFU) to reflect the movement of the TSO/ISPF Interface selectable unit from DATAMANAGER to CONTROLMANAGER.

This manual is one of a series describing DATAMANAGER, the data dictionary software developed by MSP for use on IBM System/370, 30xx and 4300 series, and plug-compatible machines. MSP provides Maintenance Service for MANAGER Products in IBM OS, DOS, CMS and BS2000 environments, where the release of OS, DOS, CMS or BS2000 in use is defined in Appendix 2 of the appropriate MANAGER Products Installation manual in the table column headed "Compatible Release Level". MSP's Maintenance Service for a particular OS, DOS, CMS or BS2000 environment (Compatible Release Level) will continue for a period equal to or greater than the IBM or Siemens support for that environment. Particular MANAGER Products selectable units interface with certain IBM and/or Siemens software products that run within OS and/or DOS and/or CMS and/or BS2000 environments and/or with other vendor software: the Compatible Release Levels at which these products interface with MANAGER Products and the support provided by MSP are also documented in Appendix 2 of the appropriate MANAGER Products Installation manual. Throughout MSP's technical documentation, the terms OS and DOS respectively cover all those variants of OS and of DOS for which MSP has defined a Compatible Release Level.

The terminals currently supported by MANAGER Products are defined in Appendix 2 of the Installation manuals listed above.

This manual describes the use of DATAMANAGER's TSO/ISPF Interface facility (selectable unit DMR-FE70), a facility for running DATAMANAGER and CONTROLMANAGER under IBM's TSO version of ISPF. This edition relates to Release 5.0.0 and subsequent releases of DATAMANAGER, and Release 1.0.0 and subsequent releases of CONTROLMANAGER.

Chapter 1 of this manual gives an overview of the capabilities available with the DATAMANAGER TSO/ISPF Interface facility.

Chapter 2 describes how you log on to CONTROLMANAGER/DATAMANAGER under ISPF. The options available with the MANAGER Products Primary Option Menu are summarized here.

Chapters 3 to 11 describe in detail the usage of the DATAMANAGER panels available with the TSO/ISPF Interface facility.

Chapters 12 to 19 describe in detail the usage of the DESIGNMANAGER panels available with the TSO/ISPF Interface facility.

For the installation requirements particular to the DATAMANAGER TSO/ISPF Interface facility, you should refer to the DATAMANAGER TSO/ISPF Interface Installation manual. Installation of batch versions of your MANAGER Products

software is documented in the MANAGER Products Installation in OS Environments manual.

To assist you to make full use of this manual, the Contents table following this Preface is supported by a combined keyword index and usage index under the heading 'Usage Directory' at the back of the manual. The Usage Directory provides a means of accessing information by word occurrence or by function.

A range of manuals is available covering the MANAGER Family of Products. Details of the manuals and other documentation available are published every six months (at the end of June and the end of December) in the MSP Documentation Bulletin, which is distributed to all Users.

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CHAPTER 1 INTRODUCTION

The DATAMANAGER TSO/ISPF Interface facility is available as selectable unit DMR-FE70. It is designed for use by those installations wishing to combine the functionality of ISPF, DATAMANAGER and CONTROLMANAGER. The DATAMANAGER TSO/ISPF Interface facility provides an alternative to the DATAMANAGER TSO Interface facility (selectable unit DMR-TP7), which provides access to the CONTROLMANAGER Interactive facilities. Installations can choose to have one or both of these Interface facilities installed.

The DATAMANAGER TSO/ISPF Interface facility provides the following major capabilities:

- ISPF menus, processing panels, skeletons and tutorial panels
- the standard ISPF EDIT and BROWSE capabilities to complement standard DATAMANAGER/CONTROLMANAGER operation
- hardcopy printout of your MANAGER Products output using a simple HARDCOPY capability
- DATAMANAGER's selection capabilities which can be used to produce an ISPF member selection list
- a wide range of DATAMANAGER's updating, reporting, and interrogation commands, available in an abbreviated form so that they can be used in the selection field of an ISPF member selection list
- dynamic inclusion and exclusion of members in your member selection list
- simultaneous usage of two dictionaries using ISPF's split screen capability
- mixed processing (DATAMANAGER/standard ISPF) without signing-off from DATAMANAGER
- model member skeletons are provided for DATAMANAGER member types. These member skeletons can be used when you are adding or replacing dictionary members.
- the ability to customize the DATAMANAGER model member skeletons to suit your installation's requirements
- facilities for Source Language Generation available in a menu selection
- panels to enable DATAMANAGER/CONTROLMANAGER commands to be submitted for batch execution.

CHAPTER 2 LOGGING ON TO CONTROLMANAGER

2.1 INTRODUCTION

Three separate Option Menus are utilized when signing on to CONTROLMANAGER/DATAMANAGER under ISPF. These menus are:

- the ISPF/PDF Primary Option Menu. This is the installation's own menu, which MSP suggests you utilize to invoke your MANAGER Products. (See the DATAMANAGER TSO/ISPF Interface Installation manual for full installation details.)

- the MANAGER Products Primary Option Menu (see section 2.1). You utilize this menu to select the manner in which you will logon to CONTROLMANAGER.

- the DATAMANAGER Primary Option Menu (see section 2.3). This menu allows you to choose several panels which allow you to enter details of particular DATAMANAGER or CONTROLMANAGER commands and subsequently execute them.

2.2 THE MANAGER PRODUCTS PRIMARY OPTION MENU

This menu allows you to select from a range of alternative methods for logging on to CONTROLMANAGER (see Figure 2.1). These options are described below.

2.2.1 Option 0 – Display MSP Logon Screen

This option causes the MSP Logon Screen to be displayed (see Figure 2.2). This enables you to log on to CONTROLMANAGER using your own individual Logon Identifier and password. When you have successfully completed the Logon Screen, the DATAMANAGER Primary Option Menu will be displayed.

2.2.2 Option 1 – Display DATAMANAGER Primary Option Menu

This option causes the DATAMANAGER Primary Option Menu to be displayed directly. Manual Logon is not required since selection of this option causes the CONTROLMANAGER Autolog procedure to be invoked; the Autolog must have previously been set up by your Systems Administrator. (See the MANAGER Products Systems Administrator's Manual for details of Autolog set up.)

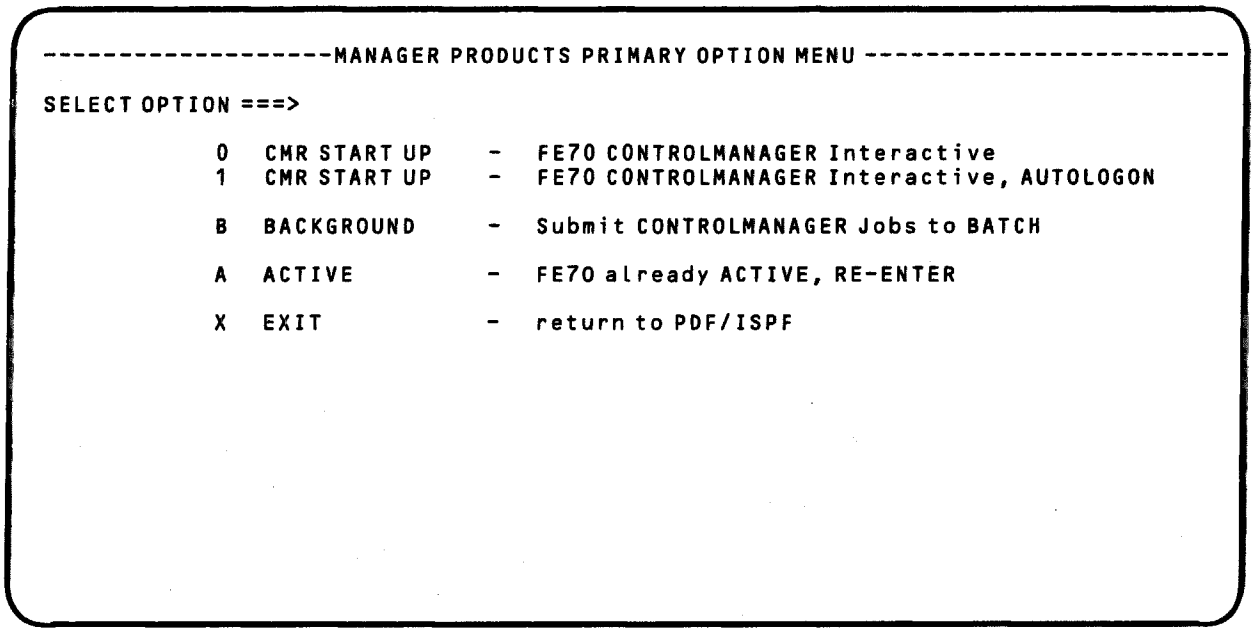

Figure 2.1 Format of the MANAGER Products Primary Option Menu

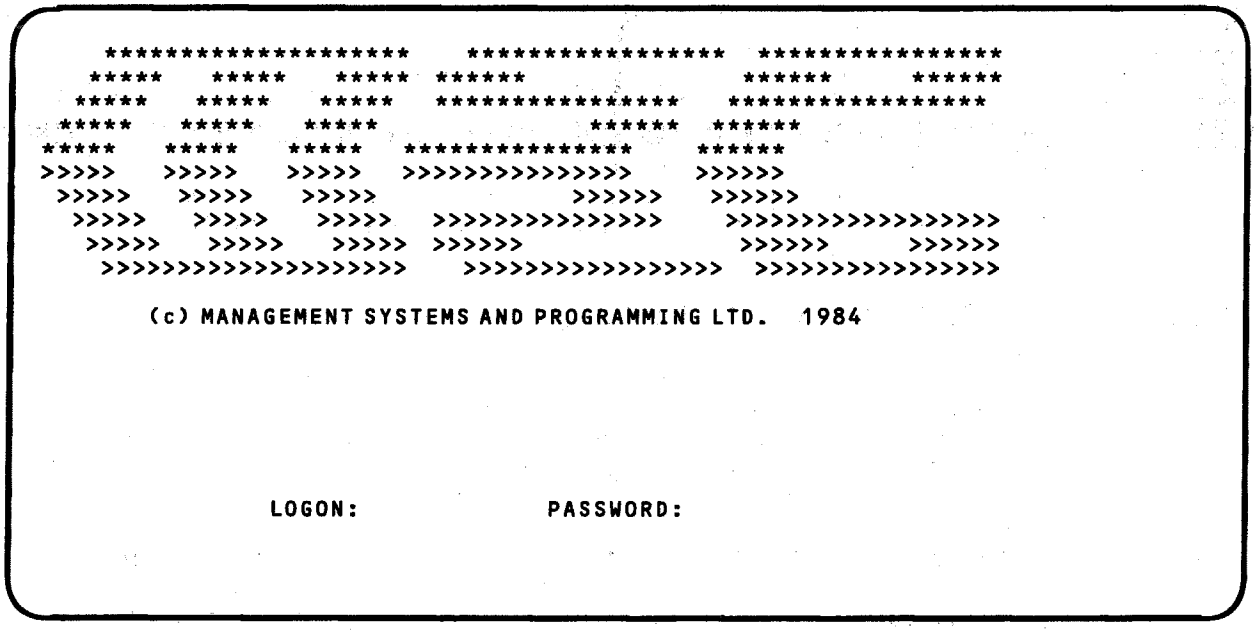

Figure 2.2 Format of the MSP Logon Screen

2.2.3 Option A – Re-enter DATAMANAGER Primary Option Menu

Selection of option A causes the DATAMANAGER Primary Option Menu to be displayed directly if the DATAMANAGER TSO/ISPF Interface is already active (that is, you had previously suspended operation of DATAMANAGER by pressing either the RETURN or END key from the DATAMANAGER Primary Option Menu rather than selecting option X). In this instance you will automatically return to the dictionary and status which was previously open.

2.2.4 Option B – Display Background Execution Panel

This panel may also be accessed from the DATAMANAGER Primary Option Menu. For further details of this panel see Chapter 10.

2.3 THE DATAMANAGER PRIMARY OPTION MENU

The first time the DATAMANAGER Primary Option Menu is displayed you should sign on to a dictionary, if interactive use is required, by selecting option 0 to display the DATAMANAGER Sign-On Panel (see Chapter 3). After signing on you can return to the DATAMANAGER Primary Option Menu at any time using the 'END' or 'RETURN' key.

You should note that, when logging on to CONTROLMANAGER/DATAMANAGER under ISPF, your Logon Profile must not SWITCH OFF MESSAGES: MANAGER Products messages are used by the DATAMANAGER TSO/ISPF Interface at all times.

One input line only is used with the DATAMANAGER Primary Option Menu (see Figure 2.3). This is the 'select option' field in which you input the number/character corresponding to the MANAGER Products capability that you require.

Full descriptions of the options that you can select are given in Chapters 3 to 10.

```
-----------------DATAMANAGER PRIMARY OPTION MENU ----------------------
SELECT OPTION ===>

     0  SIGN-ON          -  DATAMANAGER DICTIONARY Open
     1  ADD              -  ADD a new member to dictionary
     2  SELECT           -  Commands based on LIST output (member selection)
     3  PRODUCE          -  PRODUCE language (including RECORD-LAYOUTS)
     4                   -  Reserved for future use
     5                   -  Reserved for future use
     6  COMMAND          -  DATAMANAGER COMMAND processing
     7  TUTORIAL         -  HELP with DATAMANAGER
     X  EXIT             -  Terminate DATAMANAGER

     B  BACKGROUND       -  Submit DATAMANAGER jobs to BATCH




     press END or RETURN key to SUSPEND DATAMANAGER execution temporarily
     enter option X          to TERMINATE DATAMANAGER

DICTIONARY:                                        STATUS:
```

Figure 2.3 The DATAMANAGER Primary Option Menu

CHAPTER 3 OPTION 0 – THE DATAMANAGER SIGN-ON PANEL

3.1 INTRODUCTION

The DATAMANAGER Sign-On Panel is displayed when you select option 0 on the DATAMANAGER Primary Option Menu. The format of the DATAMANAGER Sign-On Panel is shown in Figure 3.1.

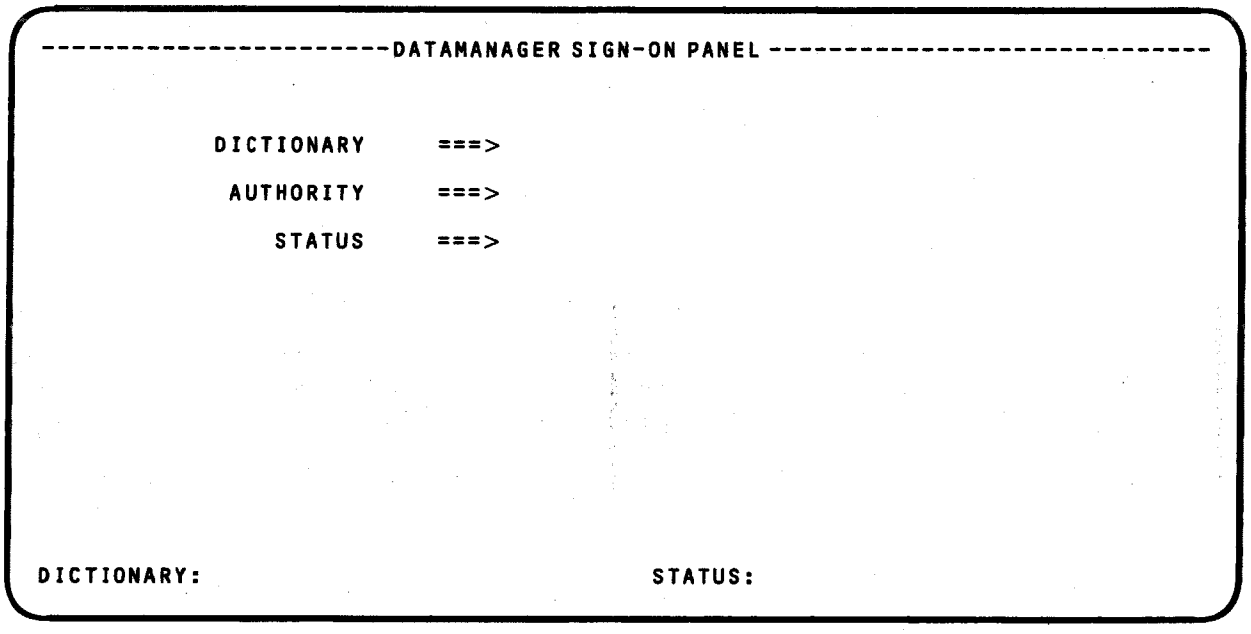

Figure 3.1 The DATAMANAGER Sign-On Panel

The Sign-On Panel provides you with the input fields required to sign on to a dictionary under DATAMANAGER.

You should select option 0 in any of the following cases:

- if you are entering DATAMANAGER for the first time in this interactive session. You **must** successfully complete dictionary sign on before you can use the interactive capabilities available with DATAMANAGER's TSO/ISPF Interface.

- if, during an interactive session, you need to change dictionaries. You return to the DATAMANAGER Primary Option Menu, and select option 0. The current dictionary is closed automatically and successful completion of the DATAMANAGER Sign-On Panel enables you to sign on to a new dictionary.

- if, during an interactive session, you wish to sign on to a second dictionary without signing off from the first, ISPF's split screen capability can be utilized. See section 3.4 for further details of split screen processing.

3.2 SCREEN INPUT

The DATAMANAGER Sign-On Panel consists of three entry fields as follows:

- the DICTIONARY field. In this field you MUST enter the name of your data dictionary.

- the AUTHORITY field. In this field you MUST enter your authority to use the dictionary that you specified in the DICTIONARY field.

- the STATUS field. This field is for use in those installations that have the DATAMANAGER Status facility (selectable unit DMR-DD2) installed. If your dictionary does not utilize the Status facility then do not enter this field.

  If your dictionary does utilize the Status facility, then the last status accessed by the user for the specified DICTIONARY is always shown. If this is not the required status you should replace it with the name of the status which is required.

3.3 CHANGING DICTIONARIES

When you finish processing on one dictionary, and need to work interactively on another dictionary, you can do so using the following procedure:

- return to the DATAMANAGER Primary Option Menu using the 'END' key as necessary

- select option 0 on the Primary Option menu. This causes the current dictionary to be closed automatically, and the DATAMANAGER Sign On Panel to be displayed.

- enter the Sign-On Panel using the parameters required for the second dictionary.

The second dictionary is then ready for your use.

3.4 SPLIT SCREEN PROCESSING ON TWO DICTIONARIES

You can utilize ISPF's split screen capability to:

- access two dictionaries simultaneously

- access the same dictionary concurrently from separate parts of the screen; this is particularly useful when you are performing interactive interrogations and submitting batch jobs (see Chapter 10)

- access a dictionary from one part of the screen while using standard ISPF functions on the other part of the screen.

An example of the usage of the ISPF's split screen capability is the following procedure for signing on to two dictionaries:

- position the cursor where you wish the screen to be split, and press key PF2 (or corresponding key if your system has been customized) to split the screen into separately usable parts

- using the top part of the screen, log on to CONTROLMANAGER/DATAMANAGER, and sign on to your first dictionary (see sections 2.1 and 3.2)

- using the bottom part of the screen log on to CONTROLMANAGER/ DATAMANAGER and sign on to your second dictionary (see sections 2.1 and 3.2).

CHAPTER 4 OPTION 1– THE DATAMANAGER ADD MEMBER PANEL

4.1 INTRODUCTION

The DATAMANAGER Add Member Panel is displayed when you select option 1 on the DATAMANAGER Primary Option Menu. The format of the Add Member Panel is shown in Figure 4.1.

The Add Member Panel enables you to:

- add a new member to the dictionary by editing a model member definition
- completely replace an existing member definition held on the dictionary by editing a model member definition
- edit an existing member definition.

```
----------------------DATAMANAGER ADD MEMBER PANEL ----------------------------
COMMAND ===>

ENTER/VERIFY PARAMETERS:

FUNCTION    ===>            (ADD, INSERT, REPLACE, MODIFY or ALTER)

MEMBER TYPE ===>            (for types see below)
MEMBER NAME ===>
                                  (member types)


                                  SYSTEM, PROGRAM, MODULE
                                  FILE
                                  GROUP
                                  ITEM

                                  PCB
                                  DBD HDAM,      DBD HIDAM
                                  DBD LOGICAL
                                  SEGMENT PHYS, SEGMENT LOG

DICTIONARY:                                                 STATUS:
```

Figure 4.1 The DATAMANAGER Add Member Panel

4.2 SCREEN INPUT

4.2.1 Introduction

In addition to the MANAGER Products Command Line (use of which is described in Chapter 9), there are three entry fields available for your use with the DATAMANAGER Add Member Panel itself.

When you are using the Add Member Panel you enter the three fields in the panel, as follows:

- in the FUNCTION field you enter a valid command keyword indicating the function that you are to perform
- in the MEMBER TYPE field you enter a valid keyword indicating the member type of the member being added or changed
- in the MEMBER NAME field you enter the name of the member that you are adding or changing.

The following sections describe in detail how you can utilize these three entry fields.

4.2.2 The FUNCTION Field

You must enter the FUNCTION field; in this field you must specify one of the commands ADD, INSERT, REPLACE, MODIFY, or ALTER. The command you require depends on the function you are performing; in particular you specify:

- A or ADD if you are adding a new member to the dictionary and require encoding of the member's definition. When you enter the Add Member Panel with the function ADD specified, a model member of the type you have specified in the MEMBER TYPE field (see section 4.2.3) is made available for you to edit under ISPF Full Screen Edit. When you have finished editing, you simply press 'END' to add the member definition to the dictionary. You may issue the ISPF editor CANCEL command to cancel the ADD command.

- I, INS or INSERT if you are adding a new member to the dictionary but do not require encoding of the member's definition. When you enter the Add Member Panel with the function INSERT specified, a model member of the type you have specified in the MEMBER TYPE field (see section 4.2.3) is made available for you to edit under ISPF Full Screen Edit. When you have finished editing, you simply press 'END' to add the member's source definition to the dictionary. You may issue the ISPF editor CANCEL command to cancel the INSERT command.

- REP or REPLACE if you are completely replacing the definition of a member that currently exists in the dictionary. When you enter the Add Member Panel with the function REPLACE specified, a model member of the type you have specified in the MEMBER TYPE field (see section 4.2.3) is made available for you to edit under ISPF Full Screen Edit. When you have finished editing, you press 'END' to replace the member definition of the member whose name you specified in the MEMBER NAME field (see section 4.2.4) of the Add Member Panel. You may issue the ISPF Editor CANCEL command to cancel the REPLACE command.

- M, MOD or MODIFY if you are modifying the definition of a member that currently exists in the dictionary and require encoding of the member's

definition. When you enter the Add Member Panel with the function MODIFY specified, the member definition of the member that you have specified in the MEMBER NAME field (see section 4.2.4) is made available for you to edit under ISPF Full Screen Edit. When you have finished editing, you simply press 'END' to update the member's definition on the dictionary. If encoding of your updated member definition is successful then the standard DATAMANAGER encode output is suppressed. You may issue the ISPF editor CANCEL command to cancel the MODIFY command.

- ALT or ALTER if you are modifying the definition of a member that currently exists in the dictionary but do not require re-encoding of the member's altered definition. When you enter the Add Member Panel with the function ALTER specified, the member definition of the member that you have specified in the MEMBER NAME field (see section 4.2.4) is made available for you to edit under ISPF Full Screen Edit. When you have finished editing, you simply press 'END' to update the member's definition on the dictionary. You may issue the ISPF editor CANCEL command to cancel the ALTER command.

When the ISPF Full Screen Edit is entered you may, of course, use any ISPF editing capability. The first line is always a DATAMANAGER command line and must not be edited in any way.

When using the ADD, INSERT, or REPLACE commands, the file being edited has 80-byte records with 8-digit sequence numbers displayed on the left hand side of the screen (this conforms to the standard for a fixed length file).

When using either the MODIFY or the ALTER command, the file being edited has 255-byte (maximum) records with 8-digit sequence numbers displayed on the left hand side of the screen (this conforms to the standard for a variable length file).

4.2.3 The MEMBER TYPE Field

You must enter the MEMBER TYPE field, unless you have specified MODIFY, or ALTER in the FUNCTION field. Your entry in the MEMBER TYPE field must be a member type that is available with your dictionary. The member type you supply will invoke the appropriate model member definition if that definition has been installed. The set of model member definitions provided by MSP is given in Figure 4.1.

You can specify a member type corresponding to any one of this set of model members provided that the member type is valid for your dictionary. Additional model members may be available that are specific to your installation; the procedure for adding your own model members is described in the DATAMANAGER TSO/ISPF Interface Installation manual.

If you have specified MODIFY or ALTER in the FUNCTION field, then the MEMBER TYPE field can be left blank – it is ignored if entered.

4.2.4 The MEMBER NAME Field

You must enter the MEMBER NAME field; in this field you must enter a name that conforms to the rules for dictionary member names (see the DATAMANAGER User's Guide, section 2.4).

The member name that you enter depends on the function that you are performing as follows:

- if you are adding a new member to the dictionary using either of the commands ADD or INSERT, then the name must not already exist on the dictionary
- if you are changing an existing member of the dictionary using one of the commands MODIFY, ALTER or REPLACE, then you must enter the name of the existing member that you are changing.

You must not use quote delimiters around the member name you supply as these will be automatically supplied by the software.

CHAPTER 5 OPTION 2 – THE DATAMANAGER MEMBER SELECTION PANEL

5.1 INTRODUCTION

The DATAMANAGER Member Selection Panel is displayed when you select option 2 on the DATAMANAGER Primary Option Menu. The format of the DATAMANAGER Member Selection Panel is shown in Figure 5.1.

The Member Selection Panel enables you to select those members of the dictionary that satisfy the particular selection criteria you specify. Your selected members are then displayed as a Member Selection List and are available for you to process using DATAMANAGER commands as described in section 5.3.

You should note that you can obtain a Member Selection List of aliases, and/or catalog classifications, and/or (if you have the DATAMANAGER User Defined Syntax facility, selectable unit DMR-UD1, installed) indexed attributes. This capability (see section 5.2.3) extends the use of the Member Selection List beyond the processing of individual members.

```
-------------------DATAMANAGER MEMBER SELECTION PANEL ----------------------
COMMAND ===>

  Enter/Verify selections:          (Enter data for one or more selections)

  Status related:                   (NEW/CHANGED/AMENDED/REVER/DIVER/UNVER)
                  ===>

  Member list related:              (Give MEMBER TYPES separated by comma)
     member types===>
     KEPT-DATA   ===>               (Enter Y/YES to include KEPT-DATA)
  ALPHABETICALLY ===>               (Enter Y/YES to sort names ALPHABETICALLY)

  Name related:                     (Choose FROM-TO  OR  ONLY, optionally WHEN)
           FROM   ===>
             TO   ===>
           ONLY   ===>
           WHEN   ===>

  Time & user related:              (IF action ON/BEFORE/AFTER date ...)
                  ===>

  DICTIONARY:                                    STATUS:
```

Figure 5.1 The DATAMANAGER Member Selection Panel

5.2 SCREEN INPUT

5.2.1 Introduction

In addition to the MANAGER Products Command Line (use of which is described in Chapter 11), there are nine entry fields available for your use with the DATAMANAGER Member Selection Panel itself.

There are four categories of selection field provided:

- status related
- member list related
- name related
- time & user related.

MSP recommends that you use the selection fields to select only those members you need to display in your member selection list, as this minimizes processing time. Obviously you **should not** enter the Member Selection Panel without specifying any of the selection fields as all dictionary members (available in the current status if you are working on a dictionary utilizing the Status facility) will be included in the member selection list.

5.2.2 Using Status Related Selection

You can optionally enter the status related selection field. This field enables you to select members that conform to particular criteria across the various statuses of a multi-status dictionary. However, even if your dictionary has only one status, you can use the keyword UNVERIFIED as described below. The keywords available for your use if your dictionary has the Status facility installed are:

- NEW
- CHANGED
- AMENDED
- REVERIFIED
- DIVERGING
- UNVERIFIED.

You should refer to section 3.3 of the DATAMANAGER User's Guide for the exact definitions of these keywords. However, the following table gives examples of when you would use these keywords.

Keywords Available with Status Related Selection	
Keyword	Example of Usage
NEW	If you need a list of the members added to the dictionary in the current status, and which do not exist in an earlier frozen status.
CHANGED	If you need a list containing each member in the current status whose definition has been changed compared to that held in an earlier frozen status.
AMENDED	If you need a list of the members that exist in the current status and an earlier frozen status.
REVERIFIED	If you need a list of the encoded members that exist in the current status and an earlier frozen status.
DIVERGING	If you are in a non-frozen status and you need a list of the members that exist in both the current status and at least one other non-frozen status.
UNVERIFIED	If you need a list of the members in the current status that have non-encoded source records.

You can enter more than one keyword in the Status related selection field. When entering more than one keyword you must separate the keywords using commas.

5.2.3 Using Member List Related Selection

With Member list related selection, you can enter any of the following fields:

- member types, in which you can enter any valid index-name keyword or keywords (separated by commas). An index-name keyword can be a valid member-type keyword, the keywords ALIASES, CATALOGS, CATALOGUES, and/or (if you have the DATAMANAGER User Defined Syntax facility installed) ATTRIBUTES
- KEPT-DATA, in which you can enter YES
- ALPHABETICALLY, in which you can enter YES.

You enter YES in the ALPHABETICALLY field when you require members in your member selection list to be output in alphabetical order.

If you enter YES in the KEPT-DATA field but do not enter the member type, only members in your kept-data list will be included in the member selection list. You must, of course, have previously accumulated kept-data using DATAMANAGER KEEP and ALSO KEEP commands.

The member types field allows you to specify that all members of a particular type or types are to be included in the member selection list. When used in conjunction with the KEPT-DATA field, the member types field allows you to specify that only members of a particular type or types are to be included from the members in the kept-data list.

You can select members of a particular type and/or from kept-data according to status, name and/or time and user related criteria by entering other fields in addition to the KEPT-DATA and member types fields. For example, you can produce a member selection list containing all SYSTEMs whose names begin with the letter A; you enter SYSTEM in the member types field and A in the ONLY field for name related selection.

5.2.4 Using Name Related Selection

The four fields available with Name related selection allow you to select those members whose names conform to particular naming criteria. The fields available are:

- FROM
- TO
- ONLY
- WHEN.

You should refer to section 3.3 of the DATAMANAGER User's Guide for the exact usage of the name related selection clause. In particular you should refer to that section for the format of the WHEN clause. (The first WHEN keyword in that format must not be entered as it is provided automatically.) The following table gives you examples of when you would use these keywords.

Keywords Available with Name Related Selection

Keyword	Example of Usage
FROM	If you need a list of all the members whose names either begin with or are subsequent to (in alphanumeric sequence) the character string you enter. (Notes 1 and 2)
TO	If you need a list of all the members whose names either begin with or precede (in alphanumeric sequence) the character string you enter. (Notes 1 and 2.)
ONLY	If you need a list of only those members whose names begin with the character string you enter. (Note 2.)
WHEN	If you need a list of only those members whose names conform to particular conditions. For example, you can select members whose names, end with a certain character, and are a particular number of characters in length. (Note 3.)

Notes

1 You can use FROM and TO fields together to select those members whose names are in a particular alphanumeric range.

2 It would be illogical to enter the ONLY field at the same time as either the FROM or TO fields; therefore you are not allowed to do this.

3 Subject to Note 2 above, you can enter the WHEN field at the same time as any other field.

5.2.5 Using Time & User Related Selection

This field enables you to select members that were processed in a specified manner (either introduced, amended, or verified) within a particular time period and/or by a particular user. If your dictionary has the DATAMANAGER Status facility (selectable unit DMR-DD2) installed, you can additionally select members from a named status; that is a non-current status.

You should refer to section 3.3 of the DATAMANAGER User's Guide for the exact usage of the time-and-user-related-selection clause.

5.3 THE MEMBER SELECTION LIST

5.3.1 Introduction

A Member Selection List is displayed when you enter a Member Selection Panel containing valid selection criteria. The list contains only those members that fulfil your selection criteria and is in the same form as the output from a standard DATAMANAGER LIST command.

There are two input areas available for your use:

- the command selection field use of which is described in section 5.3.2, and
- the Command Line use of which is described in section 5.3.3.

If data is entered into both the Command Line and the selection field, then the Command Line is ignored.

5.3.2 Using the Command Selection Field

There is a five character input field to the left of each member in the Member Selection List. This is the member's command selection field, in which you can enter a command short form in order to process the member. These command short forms enable you to carry out a range of DATAMANAGER interrogation, report and update commands.

The following table gives the command short forms available and a brief description of their usage.

For those short forms having equivalent standard DATAMANAGER commands, you should refer to section 3.2 of the DATAMANAGER User's Guide for the specification of the standard command.

Command Short Forms Available for Use with Member Selection Lists			
Command Short Form	Alternative Short Form	Equivalent DATAMANAGER Command	Usage
ALT	A	ALTER	To change a member's definition without encoding the updated source record.
MOD	M	MODIFY	To change a member's definition and encode the updated source record.
ENC	E	ENCODE	To encode the source record of a member
REM	none	REMOVE	To remove a member from the current status (or from the dictionary if the Status facility is not installed).
LIS	L	none	To obtain an updated display of the number of references to a member.
X	none	none	To drop a member from the displayed Member Selection List.
PRI	P	PRINT	To display a print of a member's source record.
BPRI	BP	none	To display, for examination under ISPF's BROWSE capability, a print of a member's source record.
HPRI	HP	none	To produce a hardcopy printout of a member's source record to the data set identified as MPRT.
REP	R	REPORT	To display a report of a member's encoded record.
BREP	BR	none	To display, for examination under ISPF's BROWSE capability, a report of a member's encoded record.
HREP	HR	none	To produce a hardcopy printout of a report of a member's encoded record to the data set identified as MPRT.
LISH	LH	LIST HISTORY	To list a member's history.

(continued)

(continued)

Command Short Forms for Use with Member Selection Lists		
Command Short Form	Equivalent DATAMANAGER Command	Usage
WA	WHOSE ALIAS IS	To determine the name of the member whose alias has been selected.
[K]WC	[KEEP] WHAT CONSTITUTES	To determine the members that are referenced by the selected member both directly and indirectly. (Note 1).
[K]WDC	[KEEP] WHAT DIRECTLY CONSTITUTES	To determine members that are referenced by the selected member directly. (Note 1.)
[K]WU	[KEEP] WHAT USES	To determine the members that refer to the selected member either directly or indirectly. (Note 1.)
[K]WDU	[KEEP] WHAT DIRECTLY USES	To determine the members that refer to the selected member directly. (Note 1.)
[K]WAC	[KEEP] WHICH ALIASES CONSTITUTE	To determine the aliases of the members directly or indirectly referenced by the selected member (Note 1.)
[K]WCC	[KEEP] WHICH CATALOGS CONSTITUTE	To determine the catalog classifications of the members directly or indirectly referenced by the selected member. (Note 1.)
[K]WF	[KEEP] WHAT FORMS	If the Member Selection List contains catalog classifications, then this command enables you to determine which encoded members are catalogued under a selected classification. (Note 1.)

Notes

1 You prefix the command short form by the letter K, when you need to produce a kept-data list of the required members, aliases, or catalog classifications.

5.3.3 Using the Command Line

The Command Line is used as described in Chapter 11 with the following additional commands available:

Command	Usage
LOCATE	The LOCATE command works in a similar way to the normal LOCATE command in ISPF member selection lists. The only difference is that if you enter a string that is not found (even on the first letter), the list is not scrolled. The LOCATE command may also be written as LOC or L. (Note the DATAMANAGER LIST command must be written as at least LI.)
LOCATE-NEXT	The LOCATE-NEXT command works like the version of the LOCATE command described above. The difference being that the search for a member to match the string is not started from the beginning of the member list, but from the member after the one currently on top of the screen. When 'END' is pressed, the list is scrolled to the next member that matches the LOCATE string and the LOCATE-NEXT command remains in the command line. This is very useful when the member list is not in alphabetical order and you want to process (via the selection field) several members. The LOCATE-NEXT command may also be written as either LOCN or LN.
INCLUDE	The INCLUDE command is entered in the command line and is used to add members to the member selection list. The selection of the members to be added is done with the same syntax as the DATAMANAGER LIST command, for example INCLUDE PROGRAMS ONLY Q123. The INCLUDE command may also be written as INCL.
COMMAND	The COMMAND command is entered in the command line and is used to transfer control to the DATAMANAGER Command Panel without leaving the member selection list. This is useful when you want to enter a long command that does not fit in the command line of the member selection list. The COMMAND command may also be written as CMD (no ending terminator). When you END the DATAMANAGER Command Panel you will return to the Member Selection List panel last displayed.

CHAPTER 6 OPTION 3 – THE DATAMANAGER PRODUCE LANGUAGE PANEL

6.1 INTRODUCTION

The DATAMANAGER Produce Language Panel is available for your use if you have at least one of the DATAMANAGER Source Language Generation facilities installed. The languages that can be generated using this panel and the selectable units required (in addition to the DATAMANAGER TSO/ISPF Interface) for their generation are given in the following table:

Options Available with the Produce Language Panel	
Language PRODUCEd	Selectable Unit(s) Required
COBOL source code	DMR-SL1
PL/I source code	DMR-SL2
Assembler source code	DMR-SL3
MARK IV File Definitions	DMR-SL7
IMS (DL/I) Database Description (DBD) control statements	DMR-DD5, DMR-SL5
IMS (DL/I) Program Specification Block (PSB) control statements	DMR-DD5, DMR-SL5
TOTAL DBGEN statements	DMR-DD4, DMR-SL4
SYSTEM 2000/80 Define statements	DMR-DD9, DMR-SL9
ADABAS Loader Definition statements	DMR-DD6, DMR-SL6
ADABAS Record Buffer source code	DMR-DD6, DMR-SL6

You select option 3 when you need to generate record layouts and/or any of the above languages.

The DATAMANAGER Produce Language Panel is displayed when you select option 3 on the DATAMANAGER Primary Option Menu. The format of the DATAMANAGER Produce Language Panel is shown in Figure 6.1.

```
------------------DATAMANAGER PRODUCE LANGUAGE PANEL ---------------------
Enter/verify parameters:

LANGUAGE          ===>                 (see below for allowable types)
FROM              ===>
                                       (name of member to PRODUCE from)
OUTPUT            ===>                 (NOGEN to suppress output to GENLIB)
AS                ===>                 (library member name)

REC & ...         ===>                 (Y to PRODUCE layouts & language)
ALIAS             ===>                 (alias type or number)
USING             ===>                 (ENTERED-AS, HELD-AS, REPORTED-AS)
GIVING            ===>
OMITTING          ===>
EDITING           ===>


allowed LANGUAGE types: COB   PLI   BAL   REC   MARK4
                        DBD   PSB   TOT   S2KD
                        ADAL  ADAB

DICTIONARY:                                      STATUS:
```

Figure 6.1 The DATAMANAGER Produce Language Panel

6.2 SCREEN INPUT

6.2.1 Introduction

There are ten entry fields available for use with the DATAMANAGER Produce Language Panel. These entry fields correspond to clauses available with the DATAMANAGER PRODUCE command. Not all entry fields are relevant to all the languages that can be generated using this panel. You should consult the DATAMANAGER Source Language Generation manual and relevant DATAMANAGER database facility manuals for details of the clauses and keywords available with the PRODUCE command.

The selection fields are best considered in four categories:

- the context fields, that enable you to specify the name of the member you are generating, the language it is to be generated in, and where it is to be generated from. (See section 6.2.2).
- the output control field (see section 6.2.3)
- the generation control fields (see section 6.2.4)
- the name editing field (see section 6.2.5).

6.2.2 The Context Fields

The context fields are:

- the LANGUAGE field, in which you MUST specify either the language to be generated, or that record layouts only are to be generated. Allowed language types and the keywords used to generate output of a specific type are given in the following table.

LANGUAGE Field: Allowed Language Types	
Keyword	Output Generated
COB	COBOL source code
PLI	PL/I source code
BAL	Assembler source code
REC	Record Layouts only
MARK4	MARK IV File Definitions
DBD	IMS(DL/I) Database Description (DBD) control statements
PSB	IMS(DL/I) Program Specification Block (PSB) control statements
TOT	TOTAL DBGEN statements
S2KD	SYSTEM 2000 Define statements
ADAL	ADABAS Loader Definition statements
ADAB	ADABAS Record Buffer source code

- the FROM field, in which you MUST specify the name of the dictionary member from which generation is to take place

- the REC field, in which you enter Y if generation of record layouts is required in addition to the language specified in the LANGUAGE field. Alternatively, if you wish to generate the specified language only, you must leave this field blank.

- the AS field, in which you enter the name of the library member that is to be generated.

6.2.3 The Output Control Field

The OUTPUT field is provided to enable you to suppress the writing of generated output to the library. You enter NOGEN in this field to suppress output to the library. If you want generated output to be written to the library, then leave this field blank.

6.2.4 The Generation Control Fields

There are four generation control fields available for your use:

- the ALIAS field
- the USING field
- the GIVING field
- the OMITTING field.

These fields correspond to the generation control options defined in Chapter 2 of the Source Language Generation manual; you should refer to that manual for the keywords available and use of those options.

6.2.5 The Name Editing Field

The EDITING field allows you to enter the clauses available with the name editing options defined in Chapter 2 of the DATAMANAGER Source Language Generation manual; you should refer to that manual for the keywords available and use of those options.

CHAPTER 7 OPTION 6 – THE DATAMANAGER COMMAND PANEL

The DATAMANAGER Command Panel is displayed when you select option 6 on the DATAMANAGER Primary Option Menu. The format of the DATAMANAGER Command Panel is shown in Figure 7.1.

The Command Panel is used for general processing; you can enter any valid DATAMANAGER or CONTROLMANAGER command up to three lines in length except for the following:

- LOGON
- LOGOFF
- ENDDMR
- DICTIONARY
- ADD
- INSERT
- REPLACE

After entering the DATAMANAGER Command Panel, you can page forwards through MANAGER Products output as required. Additionally you can precede the DATAMANAGER or CONTROLMANAGER command by either:

- the keyword BROWSE, to direct the output to a data set for viewing under ISPF Browse. Or,

- the keyword HCPY, to direct the output to the data set identified as MPRT.

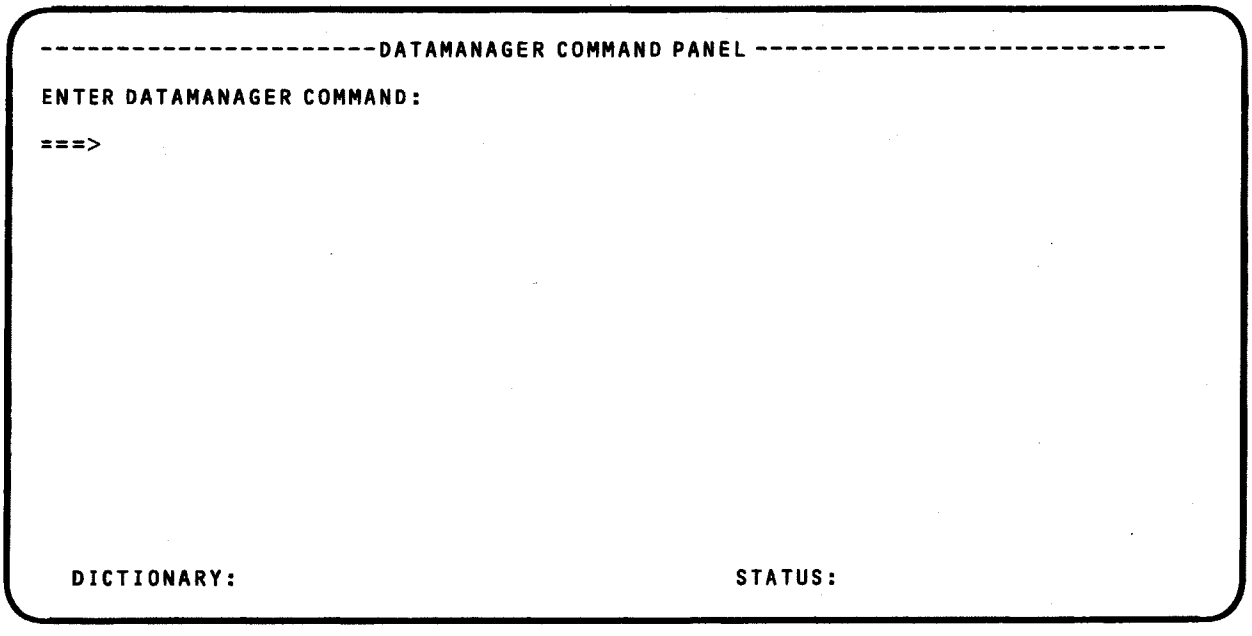

Figure 7.1 The DATAMANAGER Command Panel

You should note that in order to use the MANAGER Products PRINT command, rather than the ISPF PRINT command, you should enter either:

- a valid truncation of PRINT (PRI or PRIN), or
- BROWSE PRINT, or
- HCPY PRINT

as appropriate.

Commands entered using this panel do not require a terminator to be input; it is automatically added by the software if necessary.

CHAPTER 8 OPTION 7 – THE DATAMANAGER TUTORIAL PANEL

You should select option 7 when you require information on DATAMANAGER's TSO/ISPF Interface, and, in particular, information on the usage of the panels provided by it.

The Tutorial Panel on the DATAMANAGER Primary Option Menu is itself in the form of a menu. You can page through the information in logical sequence simply by pressing 'Enter' to display the next Tutorial Panel. Alternatively you can view information on the usage of a particular DATAMANAGER panel by selecting the relevant option given in the Primary Option Menu Tutorial.

CHAPTER 9 OPTION X – TERMINATE DATAMANAGER

You should select option X if you wish to terminate execution of the DATAMANAGER TSO/ISPF Interface and return to the MANAGER Products Primary Option Menu. Alternatively you could suspend execution of the interface by pressing the END key which would allow you to reeenter the interface from the MANAGER Products Primary Option Menu, using option A, without having to logon again to CONTROLMANAGER and having to use option 0 to re-sign on to the dictionary.

CHAPTER 10 OPTION B – THE DATAMANAGER BACKGROUND PANELS

10.1 INTRODUCTION

You should select option B when you need to submit jobs in batch mode. You need not carry out interactive dictionary sign on (via option 0) if you will be using batch mode, since all the required dictionary selection is performed via this option B.

It is possible to utilize ISPF's split screen capability to sign on to a dictionary interactively via option 0, and concurrently submit jobs against either the same or a different dictionary in background mode via option B.

There are two DATAMANAGER Background Panels available that enable you to submit DATAMANAGER/CONTROLMANAGER jobs in background (batch) mode.

Selection of option B on the DATAMANAGER Primary Option Menu or the MANAGER Products Primary Option Menu causes the first of these panels, the DATAMANAGER Background Execution Panel, to be displayed. This panel is used to indicate the dictionary which is required for processing in background mode (see section 10.2 for details).

Once the dictionary to be used in background mode has been successfully identified, the DATAMANAGER Background Command Panel is displayed. This panel provides you with the capability of entering DATAMANAGER and CONTROLMANAGER commands to be submitted in background mode (see section 10.3 for details).

10.2 THE DATAMANAGER BACKGROUND EXECUTION PANEL

10.2.1 Introduction

The DATAMANAGER Background Execution Panel is displayed when you select option B on the DATAMANAGER Primary Option Menu or the MANAGER Products Primary Option Menu. The format of the DATAMANAGER Background Execution Panel is shown in Figure 10.1.

The Background Execution Panel provides you with various input fields to allow you to identify the required dictionary. required to sign on to a dictionary under DATAMANAGER. You **must** indicate your dictionary using the Background Execution Panel, if you require background usage of DATAMANAGER's TSO/ISPF Interface facility.

10.2.2 Screen Input

The DATAMANAGER Background Execution Panel consists of seven entry fields as follows:

- the DICTIONARY field. In this field, you **must** enter the name of your data dictionary.

- the AUTHORITY field. If your Logon Profile automatically provides your dictionary authority, this field may be left blank: if not, you **must** enter your authority to use the dictionary that you specified in the DICTIONARY field.

- the STATUS field. This field is for use in those installations that have the DATAMANAGER Status facility (selectable unit DMR-DD2) installed. If your dictionary does not utilize the Status facility then do not enter this field.

  If your dictionary does utilize the Status facility, then in the STATUS field enter the name of the dictionary status you require. You can leave the STATUS field blank if you require the default status of the dictionary or if your Logon Profile contains the necessary STATUS command.

- four JOB STATEMENT fields. These fields are provided to enable you to input the job statement information required to submit a batch job under PDF. The first field must contain job name parameters, the other fields may be left blank unless you wish to enter any additional job statement information.

```
-------------DATAMANAGER BACKGROUND EXECUTION PANEL -----------------------


            DICTIONARY     ===>

             AUTHORITY     ===>

                STATUS     ===>

Omit AUTHORITY & STATUS if CONTROLMANAGER LOGON supplies them.




JOB statement (verify before proceeding)
===>
===>
===>
===>
```

Figure 10.1 The DATAMANAGER Background Execution Panel

10.3 THE DATAMANAGER BACKGROUND COMMAND PANEL

The DATAMANAGER Background Command Panel is displayed when the DATAMANAGER Background Execution Panel has been completed and entered successfully. The format of the Background Command Panel is shown in Figure 10.2.

Eighteen fields are provided to enable you to enter valid DATAMANAGER and CONTROLMANAGER commands as required. Each command must be terminated with either '.' or ';'.

When using the DATAMANAGER Background Command Panel, you should note:

- the first field on the Background Command Panel **must** always be used
- all Logon and dictionary open/close functions are provided automatically via the DATAMANAGER Background Execution and Background Command Panels. Thus the LOGON, DICTIONARY and LOGOFF commands need not be entered on the DATAMANAGER Background Command Panel.

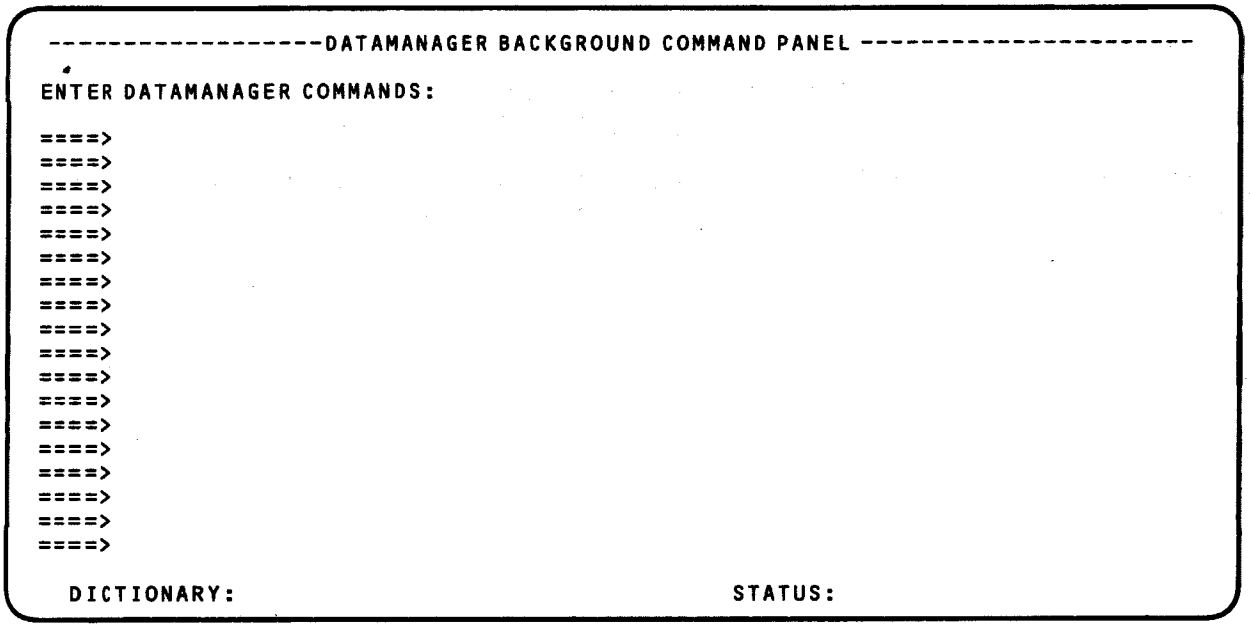

Figure 10.2 The DATAMANAGER Background Command Panel

CHAPTER 11 THE COMMAND LINE

11.1 INTRODUCTION

In earlier chapters reference has been made to the Command Line. This input field is displayed at the top of certain panels.

The Command Line enables you to execute DATAMANAGER or CONTROLMANAGER commands interactively without moving from the panel that you are currently using. This is particularly useful when you need to interrogate the dictionary in order to complete the panel correctly, or if you need to form a kept-data list that is to be accessed when the panel is processed.

The capability is also available for you to examine the output of your DATAMANAGER or CONTROLMANAGER command under ISPF Browse, or to produce a hardcopy print out of the output (see section 11.2).

You should note that in order to use the MANAGER Products PRINT command, rather than the ISPF PRINT command, you should enter either:

- a valid truncation of PRINT (PRI or PRIN), or
- BROWSE PRINT, or
- HCPY PRINT

as appropriate.

You can enter any valid DATAMANAGER or CONTROLMANAGER command except for the following:

- LOGON
- LOGOFF
- ENDDMR
- DICTIONARY
- ADD
- INSERT
- REPLACE

11.2 SCREEN INPUT

11.2.1 General Processing

The Command Line is always at the top of the panel and is indicated as follows:

```
COMMAND ===>
```

On the Command Line you input your DATAMANAGER or CONTROLMANAGER command, and press 'ENTER': the command is executed and the output displayed. When you have finished examining the output, you return to the current panel by pressing 'ENTER'. The command that you have actioned is displayed on the Command Line, but is preceded by a period (.); this causes the Command Line to be inactive until you remove the period.

If the command you enter is in error, a diagnostic message is output: the erroneous command is displayed on the Command Line preceded by a period. Thus, you can determine the error in the command, correct it and then action the corrected command by removing the period and pressing 'ENTER'.

The Command Line is one line in length; thus to enter a lengthy command you may need to use truncations of command keywords. However, if your command is so complex that it cannot be fitted onto one line then you can use the DATAMANAGER Command Panel (see Chapter 7).

Commands entered using this panel do not require a terminator to be input; it is automatically added by the software as necessary.

11.2.2 Use of ISPF's Browse Capability

If you need to utilize the ISPF Browse capability when examining DATAMANAGER or CONTROLMANAGER output, then you precede your DATAMANAGER or CONTROLMANAGER command by the keyword BROWSE (alternatively you may use the truncated form BRO). Thus, to examine the source record of member EMPLOYEE-RECORD under ISPF Browse you enter:

```
BROWSE PRINT EMPLOYEE-RECORD
```

The ISPF Browse capability allows you to scroll up and down generated output as required.

11.2.3 Obtaining a Hard Copy Printout

If you require a hardcopy printout of DATAMANAGER or CONTROLMANAGER output then you precede your DATAMANAGER or CONTROLMANAGER command by the keyword HCPY. Thus, to produce a hardcopy printout of the source record of member EMPLOYEE-RECORD you enter:

```
HCPY PRINT EMPLOYEE-RECORD
```

CHAPTER 12 OPTION 8 - THE DESIGNMANAGER START-UP PANEL

12.1 The DESIGNMANAGER Primary Option Menu is displayed when you select option 8 from the MANAGER Products Primary Option Menu. The format of the DESIGNMANAGER Primary Option Menu is shown in Figure 12.1.

The first time DESIGNMANAGER processing is initiated, if interactive use is required, option 8 must be selected to display the DESIGNMANAGER Primary Option Menu. After initial access to the DESIGNMANAGER Primary Option Menu, you can return to this panel from other DESIGNMANAGER panels at any time using the 'END' or 'RETURN' key.

One input line only is used with the DESIGNMANAGER Primary Option Menu (See Figure 12.1). This is the 'select option' field in which you input the number/character corresponding to the DESIGNMANAGER capability that you require. Full descriptions of the options that you can select are given in Chapters 13 TO 19.

```
------------------- DESIGNMANAGER PRIMARY OPTION MENU ----------------------
SELECT OPTION ===>

   1  MERGE          - MERGE information onto workbench
   2  SELECT         - Commands based on CONTROLMANAGER LIST Output
   3  DESIGN         - Generate 3NF logical schema
   4  LIST           - List the contents of workbench
   5  REPORT         - Select design report category
   6  COMMAND        - MANAGER PRODUCTS COMMAND processing
   7  NAME           - Assign names to RELATIONS/RECORDS on workbench
   8  PLOT           - Diagram of relational/network schema
   9  DATABASE       - First cut design/model for DB2, SQL/DS or IMS
   T  TUTORIAL       - HELP with DESIGNMANAGER
   X  EXIT           - Terminate DESIGNMANAGER


   press END or RETURN key to  SUSPEND  DESIGNMANAGER execution temporarily
   enter option X         to  TERMINATE  DESIGNMANAGER

DICTIONARY:                                STATUS:
```

Figure 12.1 DESIGNMANAGER Primary Option Menu

CHAPTER 13 OPTION 1 - THE DESIGNMANAGER MERGE PANEL

13.1

The DESIGNMANAGER Merge Panel is displayed when you select option 1 from the DESIGNMANAGER Primary Option Menu. The format of the DESIGNMANAGER Merge panel is shown in Figure 13.1.

Full descriptions of the options that you can select are given in Section 13.2.

```
---------------------- DESIGNMANAGER MERGE PANEL ----------------------------
COMMAND ===>

Enter/verify selections:   (Enter data for one or more selections)
UNCONDITIONAL  ===>                  ( Y/YES  allow inconsistent data)
NO-VERIFY      ===>                  ( Y/YES  no check on definition)
EXPAND         ===>                  ( Y/YES  Replace group data elements
                                              with constituent items)

Member List, select one option:      (Give MEMBER-NAMES separated by comma)

KEPT           ===>                  ( Y/YES use members in KEPT-DATA, and
                                     (optionally use named KEPT-DATA list)
 IN list-name  ===>

MEMBERS        ===>

allowable MEMBER types: USERVIEW, ENTITY, VIEWSET

DICTIONARY:                                STATUS:
```

Figure 13.1 The DESIGNMANAGER Merge Panel

13.2 SCREEN INPUT

13.2.1 Introduction

In addition to the MANAGER Products Command Line (use of which is described in Chapter 11), there are four entry fields available for your use with the DESIGNMANAGER Merge Panel itself. These entry fields correspond to clauses available with the DESIGNMANAGER MERGE command. You should consult the DESIGNMANAGER User's Guide for details of the clauses and keywords available with the MERGE command.

There are two categories of selection fields provided:

- control related (see section 13.2.2).
- context related (see section 13.2.3).

13.2.2 The CONTROL Fields

The control fields are:

- the UNCONDITIONAL field, in which you can optionally enter Y or YES to override the check on the workbench design area for inconsistent data.

- the NO-VERIFY field, in which you can optionally enter Y or YES if no validation is to be performed on the member definitions.

- the EXPAND field, in which you can optionally enter Y or YES if GROUP data elements are to be replaced with their constituent ITEMS prior to being merged on to the workbench design area.

13.2.3 The CONTEXT Fields

The Context fields specify the members to be used in the MERGE command processing. Only one of the Context fields can be selected. The Context fields are:

- the KEPT field, in which name(s) of one or more viewsets, userviews, or entities, or the name(s) of user defined member types based on these have been held in a named or unnamed KEPT-DATA list via the DATAMANAGER KEEP command. If referencing a named KEPT-DATA list, the IN list-name selection must be used to identify the desired named KEPT-DATA list.

- the MEMBERS field, in which the name(s) of one or more viewsets, userviews, or entities, or the name(s) of user defined member types based on these. Multiple member-names must be separated by commas.

CHAPTER 14 OPTION 3 - THE DESIGNMANAGER DESIGN PANEL

14.1

The DESIGNMANAGER Design Panel is displayed when you select option 3 from the DESIGNMANAGER Primary Option Menu. The format of the DESIGNMANAGER Design panel is shown in Figure 14.1.

Full descriptions of the options that you can select are given in Section 14.2.

```
---------------------- DESIGNMANAGER DESIGN PANEL-----------------------------
COMMAND ===)

Enter/Verify Selections:

 UNCONDITIONAL      ===)              ( Y/YES  to allow inconsistent data)

 NORMAL FORM        ===)              (1, 2 or 3  Level of Normalization)

AUDIT REPORT FORMAT - CHOOSE ONE OPTION IF REPORT IS DESIRED:

 DETAILS            ===)              ( Y/YES  for Detailed Report)
 SUMMARY            ===)              ( Y/YES  for Summary Report )
 USING FORMAT name  ===)
  (Available with User Formatted Output)

DICTIONARY:                                  STATUS:
```

Figure 14.1 The DESIGNMANAGER Design Panel

14.2 SCREEN INPUT

14.2.1 Introduction

In addition to the MANAGER Products Command Line (use of which is described in Chapter II), there are five entry fields available for your use with the DESIGNMANAGER Design Panel itself. These entry fields correspond to clauses available with the DESIGNMANAGER DESIGN command. You should consult the DESIGNMANAGER User's Guide for details of the clauses and keywords available with the DESIGN command.

There are two categories of selection fields provided:

- control related (see section 14.2.2).
- audit report related (see section 14.2.3).

14.2.2 The CONTROL Field

The control fields are:

- the UNCONDITIONAL field, which is optionally used to override the check on the workbench design area for inconsistent data. Values for this field are either Y or YES.

- the NORMAL FORM field, optionally provides selectivity on the level of normalization derived from the DESIGN command. Values are 1, 2, or 3. If this field is left blank, third normal form normalization is assumed.

14.2.3 The AUDIT REPORT Fields

The Audit Report fields control if and what type of audit report is generated from the DESIGN processing. Only one field can be chosen. The audit report fields are:

- The DETAILS field, in which you can enter Y or YES for generation of a detailed Audit Report.

- The SUMMARY field, in which you can enter Y or YES for generation of a summary Audit Report.

- The USING FORMAT name field, in which you can enter the member-name of a user defined format member for generation of a user formatted Audit Report.

CHAPTER 15 OPTION 4 - THE DESIGNMANAGER LIST PANEL

15.1 The DESIGNMANAGER List Panel is displayed when you select option 4 from the DESIGNMANAGER Primary Option Menu. The format of the DESIGNMANAGER List panel is shown in Figure 15.1.

Full descriptions of the options that you can select are given in Section 15.2.

```
-------------------- DESIGNMANAGER LIST SELECTION PANEL ---------------------
COMMAND ===)

Enter/verify selections:      (Enter data for one or more selections)


ALPHABETICALLY  ===)          ( Y/YES  for output sorted by name)


List selection:               (Give categories separated by comma)
CATEGORY TYPES    ===)

   Allowable Types:

   USER/USERVIEW          DEP/DEPENDENCIES     RELA/RELATIONS
   ENT/ENTITIES           FDS                  RECO/RECORDS
   DATA-V/DATA-VIEW       IMP/IMPLIED          RO/ROOTS
   DATA-E/DATA-ELEMENT    MVDS                 DOM/DOMAIN

DICTIONARY:                                 STATUS:
```

Figure 15.1 The DESIGNMANAGER List Panel

15.2 SCREEN INPUT

15.2.1 Introduction

In addition to the MANAGER Products Command Line (use of which is described in Chapter 11), the DESIGNMANAGER List Panel consists of two entry fields. You should consult the DESIGNMANAGER User's Guide for details of the clauses and keywords available with the LIST command. The two entry fields are as follows:

- the ALPHABETICALLY field (see section 15.2.2).
- the CATEGORY TYPES field (see section 15.2.3).

15.2.2 The ALPHABETICALLY Field

The ALPHABETICALLY field must have Y or YES entered in this field when you require all relevant named records in alphanumeric order, followed by any remaining relevant records, in order of record number.

15.2.3 The CATEGORY TYPES Field

The CATEGORY TYPES field must have one or more DESIGNMANAGER categories entered in this field, that are available in your dictionary. Multiple categories must be separated by commas.

CHAPTER 16 OPTION 5 - THE DESIGNMANAGER REPORT MAIN MENU

16.1

The DESIGNMANAGER Report Main Menu is displayed when you select option 5 from the DESIGNMANAGER Primary Option Menu. The format of the DESIGNMANAGER Report Main Menu is shown in Figure 16.1.

The DESIGNMANAGER Report Main Menu enables you to:

- generate reports on USERVIEWS, DATA-VIEWS, DATA ELEMENTS, ENTITIES, and LOAD FACTORS. See section 16.2.
- generate a report on the RELATIONAL-SCHEMA. See section 16.4.
- generate a report on the INTERSECTING-DATA ELEMENTS. See section 16.6.

Only one input line is used with the DESIGNMANAGER Report Main Menu (see Figure 16.1). This is the 'select option' field in which you input the number/character corresponding to the DESIGNMANAGER capability that you require.

Full descriptions of the options that you can select are given in Sections 16.2 to 16.7.

```
----------------- DESIGNMANAGER REPORT MAIN MENU ---------------------------
SELECT OPTION ===)

Choose type of REPORT to be generated:

   1  USERVIEWS              -Report USERVIEWS
   2  DATA-VIEWS             -Report DATA-VIEWS(USERVIEWS and ENTITIES)
   3  DATA ELEMENTS          -Analysis of Data Element Usage
   4  RELATIONAL-SCHEMA      -Logical Schema Report
   5  INTERSECTING-DATA      -Report of all Intersecting Data Elements
   6  ENTITIES *             -Report ENTITIES
   7  LOAD FACTORS #         -Report requested Load-Factors
   T  TUTORIAL               -HELP

   *  Requires Enterprise Modeling facility
   #  Requires Load Factor Calculation facility


DICTIONARY:                                STATUS:
```

Figure 16.1 The DESIGNMANAGER Report Main Menu

16.2 THE DESIGNMANAGER REPORT PANEL 1

The DESIGNMANAGER Report Panel 1 is displayed when you select option 1, 2, 3, 6, or 7 from the DESIGNMANAGER Report Main Menu. The format of the DESIGNMANAGER Report Panel 1 is shown in Figure 16.2.

Full descriptions of the options that you can select is given in Section 16.3.

```
------------------- DESIGNMANAGER REPORT PANEL 1 ---------------------------
COMMAND ===)

Report Selection for USERVIEWS
 ALPHA               ===)              ( Y/YES for output sorted by name)

Choose one of the following options:
 ALL                 ===)              ( Y/YES for ALL selected types)
 RECENT              ===)              ( Y/YES only members from last merge)
 NUMBERS             ===)
 NAMES               ===)

                                       (Separate numbers/names with commas)

Format Selection - Optionally choose one:
 DETAILS             ===)              ( Y/YES for Detailed Report)
 SUMMARY             ===)              ( Y/YES for Summary Report)
 USING FORMAT name   ===)
  (Available with User Formatted Output faciltiy)

DICTIONARY:                                  STATUS:
```

Figure 16.2 The DESIGNMANAGER Report Panel 1

16.3 SCREEN INPUT

16.3.1 Introduction

In addition to the MANAGER Products Command Line (use of which is described in Chapter II), the DESIGNMANAGER Report Panel 1 consists of eight entry fields. You should consult the DESIGNMANAGER User's Guide for details of the clauses and keywords available with the REPORT command. This panel enables you to generate reports on USERVIEWS, DATA-VIEWS, DATA ELEMENTS, ENTITIES, and LOAD FACTORS.

Categories of selection fields:

- output order related (see section 16.3.2).
- member related (see section 16.3.3).
- audit report related (see section 16.3.4).

16.3.2 The OUTPUT ORDER Field:

The Output Order field is:

The ALPHABETICALLY field, in which Y or YES is entered to order the output of the REPORT command in alphanumeric order.

16.3.3 The MEMBER Fields:

The Member fields additionally control the member selection for the REPORT command. Only one field must be chosen. The member fields are:

- the ALL field, in which Y or YES is entered to select all the data in the workbench design area within the report category specified.

- the RECENT field, in which Y or YES is entered to select only the data, within the report category, that was brought into the workbench design area by the last MERGE command, for REPORT command processing.

- the NUMBERS field, in which a range-list is specified, to select for reporting, only the data, within the report category, whose workbench design area number is identified.

- the NAMES field, in which a name-list is specified, to select for reporting, only the data, within the report category, named in the name-list.

16.3.4 The AUDIT REPORT Fields

The Audit Report fields control what type of audit report is generated from the REPORT processing. Only one field can be chosen. If all fields are blank, a summary audit report is produced. The audit report fields are:

- The DETAILS field, in which you can enter Y or YES for generation of a detailed Audit Report.

- The SUMMARY field, in which you can enter Y or YES for generation of a summary Audit Report.

- The USING FORMAT name field, in which you can enter the member-name of a user defined format member for generation of a user formatted Audit Report.

16.4 THE DESIGNMANAGER REPORT PANEL 2

The DESIGNMANAGER Report Panel 2 is displayed when you select option 4 from the DESIGNMANAGER Report Main Menu. The format of the DESIGNMANAGER Report Panel 2 is shown in Figure 16.3.

Full descriptions of the options that you can select is given in Section 16.5.

```
------------------- DESIGNMANAGER REPORT PANEL 2 ----------------------------
COMMAND ===>

Report Selection for RELATIONAL SCHEMA
 ALPHA               ===>              ( Y/YES for output sorted by name)

Choose one of the following options:
 ALL                 ===>              ( Y/YES for all)
 NUMBERS             ===>
 NAMES               ===>
                                       (Separate numbers/names with commas)

Format Selection - Optionally choose one:
 DETAILS             ===>              ( Y/YES for Detailed Report)
 SUMMARY             ===>              ( Y/YES for Summary Report)
 USING FORMAT name   ===>
  (Available with User Formatted Output faciltiy)

DICTIONARY:                                    STATUS:
```

Figure 16.3 The DESIGNMANAGER Report Panel 2

16.5 SCREEN INPUT

16.5.1 Introduction

In addition to the MANAGER Products Command Line (use of which is described in Chapter II), the DESIGNMANAGER Report Panel 2 consists of seven entry fields. You should consult the DESIGNMANAGER User's Guide for details of the clauses and keywords available with the REPORT command. This panel enables you to generate a Relational/Logical Schema Report.

Categories of selection fields:

- output order related (see section 16.5.2).
- member related (see section 16.5.3).
- audit report related (see section 16.5.4).

16.5.2 The OUTPUT ORDER Field:

The Output Order field is:

The ALPHABETICALLY field, in which Y or YES is entered to order the output of the REPORT command in alphanumeric order.

16.5.3 The MEMBER Fields:

The Member fields additionally control the member selection for the REPORT command. Only one field must be chosen. The member fields are:

- the ALL field, in which Y or YES is entered to select all the data in the workbench design area within the report category specified.

- the NUMBERS field, in which a range-list is specified, to select for reporting, only the data, within the report category, whose workbench design area number is identified.

- the NAMES field, in which a name-list is specified, to select for reporting, only the data, within the report category, named in the name-list.

16.5.4 The AUDIT REPORT Fields

The Audit Report fields control what type of audit report is generated from the REPORT processing. Only one field can be chosen. If all fields are blank, a summary audit report is produced. The audit report fields are:

- The DETAILS field, in which you can enter Y or YES for generation of a detailed Audit Report.

- The SUMMARY field, in which you can enter Y or YES for generation of a summary Audit Report.

- The USING FORMAT name field, in which you can enter a FORMAT member for generation of a user formatted Audit Report.

16.6 THE DESIGNMANAGER REPORT PANEL 3

The DESIGNMANAGER Report Panel 3 is displayed when you select option 5 from the DESIGNMANAGER Report Main Menu. The format of the DESIGNMANAGER Report Panel 3 is shown in Figure 16.4.

Full descriptions of the options that you can select is given in Section 16.7.

```
------------------- DESIGNMANAGER REPORT PANEL 3 ---------------------------
COMMAND ===)

Report on INTERSECTING-DATA-ELEMENTS:

Format Selection - Optionally choose one:

  DETAILS             ===)                    ( Y/YES for Detailed Report)

  SUMMARY             ===)                    ( Y/YES for Summary Report)

  USING FORMAT name   ===)
   (Available with User Formatted Output faciltiy)




DICTIONARY:                                 STATUS:
```

Figure 16.4 The DESIGNMANAGER Report Panel 3

16.7 SCREEN INPUT

16.7.1 Introduction

In addition to the MANAGER Products Command Line (use of which is described in Chapter II), the DESIGNMANAGER Report Panel 3 consists of three entry fields. You should consult the DESIGNMANAGER User's Guide for details of the clauses and keywords available with the REPORT command. This panel enables you to generate an Intersecting Data Elements Report.

Categories of selection fields:

- audit report related (see section 16.7.2).

16.7.2 The AUDIT REPORT Fields

The Audit Report fields control what type of audit report is generated from the REPORT processing. Only one field can be chosen. If all fields are blank, a summary audit report is produced. The audit report fields are:

- The DETAILS field, in which you can enter Y or YES for generation of a detailed Audit Report.
- The SUMMARY field, in which you can enter Y or YES for generation of a summary Audit Report.
- The USING FORMAT name field, in which you can enter a FORMAT member to generate a user formatted Audit Report.

CHAPTER 17 OPTION 7 - THE DESIGNMANAGER NAME PANEL

17.1 The DESIGNMANAGER NAME Panel is displayed when you select option 7 from the DESIGNMANAGER Primary Option Menu. The format of the DESIGNMANAGER NAME panel is shown in Figure 17.1.

Full descriptions of the options that you can select are given in Section 17.2.

```
---------------------- DESIGNMANAGER NAME PANEL ----------------------------
COMMAND ===)

Specify type to be named:

    TYPE       ===)          (RELATIONS/REL or RECORDS/REC)

Specify Name clause:
 Choose one of the Options:

    NUMBER     ===)          (number)
                             (separate data-names with commas)
    KEY-NAME   ===)

Assign Name clause:

    AS NAME    ===)


DICTIONARY:                              STATUS:
```

Figure 17.1 The DESIGNMANAGER Name Panel

17.2 SCREEN INPUT

17.2.1 Introduction

In addition to the MANAGER Products Command Line (use of which is described in Chapter II), the DESIGNMANAGER Name Panel consists of four entry fields. You should consult the DESIGNMANAGER User's Guide for details of the clauses and keywords available with the NAME command. The four entry fields are as follows:

- the TYPE field (see section 17.2.2).
- the NUMBER field (see section 17.2.3).
- the KEY-NAME field (see section 17.2.4).
- the AS-NAME field (see section 17.2.5).

17.2.2 The TYPE Field

The TYPE field is used to identify the workbench design membertype to be named. You must either enter REL or RELATIONS to name relations; REC or RECORDS to name records.

17.2.3 The NUMBER Field

The NUMBER field is used only if the KEY-NAME field is blank. It must contain a valid relation or record number, depending of the value of the TYPE field.

17.2.4 The KEY-NAME Field

The KEY-NAME field is used only if the NUMBER field is blank. It must specify data-element-name(s) present on the workbench which are KEY(s) of a relation or record, depending on the value of the TYPE field.

17.2.5 The AS NAME Field

The AS NAME field must contain a name which will be assigned to a relation or record, depending on the value in the TYPE field. See the DESIGNMANAGER's User's Guide for coding rules on modeling dictionary member names.

CHAPTER 18 OPTION 8 - THE DESIGNMANAGER PLOT MAIN MENU

18.1 The DESIGNMANAGER Plot Main Menu is displayed when you select option 8 from the DESIGNMANAGER Primary Option Menu. The format of the DESIGNMANAGER Plot Main Menu is shown in Figure 18.1.

Full descriptions of the options that you can select are given in Sections 18.2 to 18.6.

```
---------- DESIGNMANAGER PLOT MAIN MENU ----------
COMMAND ===>

Choose type of PLOT to be generated:

   SCHEMA TYPE        ===>          (R/RELATIONAL,L/LOGICAL
                                     OR N,NETWORK)

Additional PLOT specifications - choose one:

   CLUSTER            ===>          ( Y/YES )

   CONSOLIDATED       ===>          ( Y/YES only valid with NETWORK PLOT)


DICTIONARY:                              STATUS:
```

Figure 18.1 The DESIGNMANAGER Plot Main Menu

18.2 SCREEN INPUT

18.2.1 Introduction

In addition to the MANAGER Products Command Line (use of which is described in Chapter II), the DESIGNMANAGER Plot Main Menu consists of three entry fields. You should consult the DESIGNMANAGER User's Guide for details of the clauses and keywords available with the PLOT command. The three entry fields are as follows:

- the SCHEMA TYPE field (see section 18.2.2).
- the CLUSTER field (see section 18.2.3).
- the CONSOLIDATED field (see section 18.2.4).

18.2.2 The SCHEMA TYPE Field

The SCHEMA TYPE field is used to identify the workbench design membertype to be plotted. You must either enter R, RELATIONAL or L, LOGICAL to generate a Relational Schema Plot; or N,NETWOK to generate a Network Schema Plot.

18.2.3 The CLUSTER Field

The CLUSTER field is used only if the CONSOLIDATED field is blank. It must contain Y or YES to display the DESIGNMANAGER CLUSTER PLOT PANEL (see section 18.3), which will generate a CLUSTER Plot for the member type given in the SCHEMA TYPE field.

18.2.4 The CONSOLIDATED Field

The CONSOLIDATED field is used only if the CLUSTER field is blank and when the SCHEMA TYPE is N or NETWORK. It must contain Y or YES to display the DESIGNMANAGER NETWORK CONSOLIDATED PLOT PANEL (see section 18.5), which will generate a Network CONSOLIDATED Plot.

18.3 The DESIGNMANAGER CLUSTER PLOT PANEL

The DESIGNMANAGER Cluster Plot Panel is displayed when you select Y or YES in the CLUSTER field on the DESIGNMANAGER Plot Main Menu. The format of the DESIGNMANAGER Cluster Plot Panel is shown in Figure 18.2.

Full descriptions of the options that you can select are given in Section 18.4.

```
------------------ DESIGNMANAGER CLUSTER PLOT PANEL -------------------------

Generate CLUSTER PLOT for RELATIONAL-SCHEMA

Format Selection - Optionally choose one:

   DETAILS              ===>                    ( Y/YES for Detailed Report)
   SUMMARY              ===>                    ( Y/YES for Summary Report)
   USING FORMAT name    ===>
    (available with USER FORMATTED OUTPUT Facility)




DICTIONARY:                                  STATUS:
```

Figure 18.2 The DESIGNMANAGER Cluster Plot Panel

18.4 SCREEN INPUT

18.4.1 Introduction

The DESIGNMANAGER Cluster Plot Panel consists of three entry fields. You should consult the DESIGNMANAGER User's Guide for details of the clauses and keywords available with the PLOT command.

Category of selection fields:

- audit report related (see section 18.4.2).

18.4.2 The AUDIT REPORT Fields

The Audit Report fields control what type of audit report is generated from the PLOT processing. Only one field can be chosen. If all fields are blank, a summary audit report is produced. The audit report fields are:

- The DETAILS field, in which you can enter Y or YES for generation of a detailed Audit Report.
- The SUMMARY field, in which you can enter Y or YES for generation of a summary Audit Report.
- The USING FORMAT name field, in which you can enter a FORMAT member to generate a user formatted Audit Report.

18.5 The DESIGNMANAGER NETWORK CONSOLIDATED PLOT PANEL

The DESIGNMANAGER Network Consolidated Plot Panel is displayed when you select Y or YES in the CONSOLIDATED field on the DESIGNMANAGER Plot Main Menu. The format of the DESIGNMANAGER Network Consolidated Plot Panel is shown in Figure 18.3.

Full descriptions of the options that you can select are given in Section 18.6.

```
---------- DESIGNMANAGER NETWORK CONSOLIDATED PLOT PANEL ----------

CONSOLIDATED PLOT optional specifications:

   ALL                ===)          ( Y/YES all records in PLOT)

   LABEL WITH type    ===)          (N,NAMES K,KEYS)

   SEED record-name   ===)          (starting point for the diagram)
     or record-num    ===)          (choose only ONE)

   VIA ALL LINKS      ===)          ( Y/YES for all link types OR  )
                                    ( link-code-list number (s))
      LINKS code#     ===)

DICTIONARY:                         STATUS:
```

Figure 18.3 The DESIGNMANAGER Network Consolidated Plot Panel

18.6 SCREEN INPUT

18.6.1 Introduction

The DESIGNMANAGER Network Consolidated Plot Panel consists of four entry fields. You should consult the DESIGNMANAGER User's Guide for details of the clauses and keywords available with the PLOT command.

Category of selection fields:

- control related (see section 18.6.2).

18.6.2 The CONTROL fields

The control fields are:

- the ALL field, in which Y or YES must be entered if you need a hierarchical plot for every record of the Network Schema which is displayed.
- the LABEL WITH type field, in which N, NAMES or K, KEYS must be entered to control the text displayed within boxes and pointers in the command output.
- the SEED field, in which you enter the record-name or record-number to be used as the primary seed, the starting point for the diagram.
- the VIA ALL LINKS/LINKS code# field, in which specific link code numbers or ALL is entered in order to control the selection of link types to be used in the command output.

CHAPTER 19 OPTION 9 - THE DESIGNMANAGER DATABASE MAIN MENU

19.1 The DESIGNMANAGER Database Main Menu is displayed when you select option 9 from the DESIGNMANAGER Primary Option Menu. The format of the DESIGNMANAGER Database Main Menu is shown in Figure 19.1.

The DESIGNMANAGER Database Main Menu enables you to:

- generate CREATE TABLE statements for DB2. Requires the DB2 LANGUAGE GENERATION facility. See section 19.2.

- generate CREATE TABLE statements for SQL/DS. Requires the SQL/DS LANGUAGE GENERATION facility. See section 19.4.

- develop an IMS (DL1) first cut physical model. from IMS (DL/1) reports. Requires the DL/1 DESIGN, FIRST CUT MODEL facility. See section 19.6.

Only one input line is used with the DESIGNMANAGER Database Main Menu (see Figure 19.1). This is the 'select option' field in which you input the number/character corresponding to the DESIGNMANAGER capability that you require.

Full descriptions of the options that you can select are given in Sections 19.2 to 19.11.

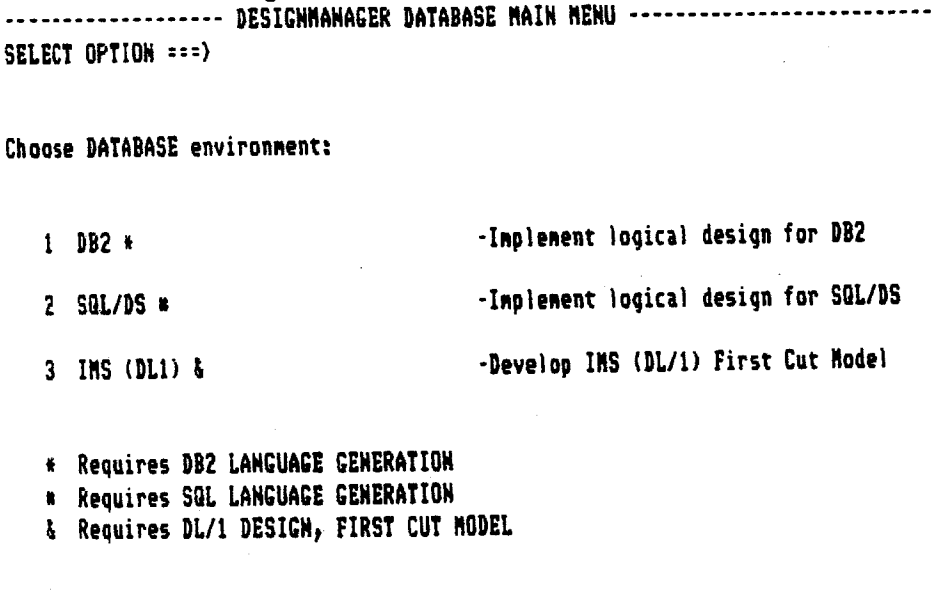

Figure 19.1 The DESIGNMANAGER Database Main Menu

19.2 OPTION 1 - THE DESIGNMANAGER DB2 PRODUCE PANEL

The DESIGNMANAGER DB2 Produce Panel is displayed when you select option 1 from the DESIGNMANAGER Database Main Menu. The format of the DESIGNMANAGER DB2 Produce Panel is shown in Figure 19.2.

Full descriptions of the options that you can select is given in Section 19.3.

```
--------------- DESIGNMANAGER DB2 PRODUCE PANEL ----------------------------
COMMAND ===>

Specify CREATE TABLE attributes - optional

   AUTHORITY  ===>              (authorization-id)

   DATABASE   ===>              (database name)

   TABLESPACE ===>              (tablespace name)

   EDITPROC   ===>              (edit-proc-name)

   VALIDPROC  ===>              (valid-proc-name)



DICTIONARY:                          STATUS:
```

Figure 19.2 The DESIGNMANAGER DB2 Produce Panel

19.3 SCREEN INPUT

19.3.1 Introduction

In addition to the MANAGER Products Command Line (use of which is described in Chapter II), the DESIGNMANAGER DB2 Produce Panel consists of five entry fields. You should consult the DESIGNMANAGER User's Guide for details of the clauses and keywords available with the PRODUCE DB2 command. This panel allows you to specify optional attributes for the CREATE TABLE statements.

The DESIGNMANAGER PRODUCE OUTPUT PANEL is then displayed to select output control options for the CREATE TABLE statements (see section 19.10).

The five entry fields for the DESIGNMANAGER DB2 Produce Panel are as follows:

- the AUTHORITY field (see section 19.3.2).
- the DATABASE field (see section 19.3.3).
- the TABLESPACE field (see section 19.3.4).
- the EDITPROC field (see section 19.3.5).
- the VALIDPROC field (see section 19.3.6).

19.3.2 The AUTHORITY Field:

The AUTHORITY field, in which optionally the authorization-id is entered to cause the corresponding clause appear every CREATE TABLE statement.

19.3.3 The DATABASE Field:

The DATABASE field, in which optionally the database-name is entered to cause the corresponding clause appear every CREATE TABLE statement.

19.3.4 The TABLESPACE Field:

The TABLESPACE field, in which optionally the tablespace-name is entered to cause the corresponding clause appear every CREATE TABLE statement.

19.3.5 The EDITPROC Field:

The EDITPROC field, in which optionally the edit-proc-name is entered to cause the corresponding clause appear every CREATE TABLE statement.

19.3.6 The VALIDPROC Field:

The VALIDPROC field, in which optionally the valid-proc-name is entered to cause the corresponding clause appear every CREATE TABLE statement.

19.4 OPTION 2 - THE DESIGNMANAGER SQL/DS PRODUCE PANEL

The DESIGNMANAGER SQL/DS Produce Panel is displayed when you select option 2 from the DESIGNMANAGER Database Main Menu. The format of the DESIGNMANAGER SQL/DS Produce Panel is shown in Figure 19.3.

Full descriptions of the options that you can select is given in Section 19.5.

```
------------ DESIGNMANAGER SQL/DS PRODUCE PANEL -----------------------------
COMMAND ===)

Specify CREATE TABLE attribute - optional

   DBSPACE    ===)                (dataspace-name)




DICTIONARY:                                STATUS:
```

Figure 19.3 The DESIGNMANAGER SQL/DS Produce Panel

19.5 SCREEN INPUT

19.5.1 Introduction

In addition to the MANAGER Products Command Line (use of which is described in Chapter 11), the DESIGNMANAGER SQL/DS Produce Panel consists of one entry field. You should consult the DESIGNMANAGER User's Guide for details of the clauses and keywords available with the PRODUCE SQL command. This panel allows you to specify optional attributes for the CREATE TABLE statements.

The DESIGNMANAGER PRODUCE OUTPUT PANEL is then displayed to select output control options for the CREATE TABLE statements (see section 19.10).

The entry field for the DESIGNMANAGER SQL/DS Produce Panel is as follows:

- the DBSPACE field (see section 19.5.2).

19.5.2 The DBSPACE Field:

The DBSPACE field, in which optionally the dbspace-name is entered to cause the corresponding clause appear every CREATE TABLE statement.

19.6 OPTION 3 - THE DESIGNMANAGER IMS (DL/1) REPORT MAIN MENU

The DESIGNMANAGER IMS (DL/1) Report Menu is displayed when you select option 3 from the DESIGNMANAGER Database Main Menu. The format of the DESIGNMANAGER IMS (DL/1) Report Main Menu is shown in Figure 19.4.

The DESIGNMANAGER IMS (DL1) Main Menu enables you to:

- list DL/1 root segments. See section 19.7.
- generate a graph/map of connected segments. See section 19.8.
- report secondary access paths or segments. See section 19.9.

Only one input line is used with the DESIGNMANAGER IMS (DL1) Main Menu (see Figure 19.4). This is the 'select option' field in which you input the number/character corresponding to the DESIGNMANAGER capability that you require.

Full descriptions of the options that you can select are given in Sections 19.7 to 19.9.

```
------------- DESIGNMANAGER IMS (DL/1) REPORT MAIN MENU ---------------------
SELECT OPTION ===>

Choose REPORT type:

   1  DL/1 LIST          -List DL/1 root segments

   2  DL/1 MAP           -Graph(s) of connected segments

   3  DL/1 REPORT        -Based on secondary access paths or segments




DICTIONARY:                                STATUS:
```

Figure 19.4 The DESIGNMANAGER IMS (DL/1) Main Menu

19.7 OPTION 1 - THE DESIGNMANAGER DL/1 LIST

19.7.1 The DESIGNMANAGER DL/1 List command is executed when you select option 1 from the DESIGNMANAGER IMS (DL/1) Report Main Menu. This command produces a list of the DL/1 root segments identified by DESIGNMANAGER.

19.8 OPTION 2 - THE DESIGNMANAGER DL/1 MAP PANEL

19.8.1

The DESIGNMANAGER DL/1 Map Panel is displayed when you select option 2 from the DESIGNMANAGER IMS (DL/1) Main Menu. The format of the DESIGNMANAGER DL/1 Map Panel is shown in Figure 19.5.

In addition to the MANAGER Products Command Line (use of which is described in Chapter 1), the DESIGNMANAGER DL/1 Map Panel consists of three entry field, of which, only one can be selected. You should consult the DESIGNMANAGER User's Guide for details of the keywords available with the DL/1 MAP command.

The DESIGNMANAGER DL/1 Map Panel enables you to:

- produce a graphical display on all the physical hierarchies existing among the segments. See section 19.8.2.
- produce a graphical display on each unidirectional logical relationship found by DESIGNMANAGER. See section 19.8.3.
- produce a graphical display on all access paths between segments which have been derived by DESIGNMANAGER from input userviews and entities. See section 19.8.4.

```
--------------- DESIGNMANAGER DL/1 MAP PANEL -------------------------------
COMMAND ===>

Choose type of DL/1 MAP desired: select only one


  HIERARCHY          ===>        ( Y/YES for PHYSICAL HIERARCHY)

  UNI-RELATIONSHIPS  ===>        ( Y/YES for UNIDIRECTIONAL RELATIONSHIPS)

  PATHS              ===>        ( Y/YES for ACCESS PATHS)




DICTIONARY:                                STATUS:
```

Figure 19.5 The DESIGNMANAGER DL/1 Map Panel

19.8.2 The HIERARCHY Field:

The HIERARCHY field, in which Y or YES is entered to produce a graphical display on all of the physical hierarchies existing among the segments.

19.8.3 The UNI-RELATIONSHIPS Field:

The UNI-RELATIONSHIPS field, in which Y or YES is entered to produce a graphical display on each unidirectional logical relationship found by DESIGNMANAGER.

19.8.4 The PATHS Field:

The PATHS field, in which Y or YES is entered to produce a graphical display on all access paths between segments which have been derived from the input userviews and entities.

19.9 OPTION 3 - THE DESIGNMANAGER DL/1 REPORT PANEL

19.9.1

The DESIGNMANAGER DL/1 Report Panel is displayed when you select option 3 from the DESIGNMANAGER IMS (DL/1) Main Menu. The format of the DESIGNMANAGER DL/1 Report Panel is shown in Figure 19.6.

In addition to the MANAGER Products Command Line (use of which is described in Chapter 1), the DESIGNMANAGER DL/1 Report Panel consists of two entry field, of which, only one can be selected. You should consult the DESIGNMANAGER User's Guide for details of the keywords available with the DL/1 REPORT command.

The DESIGNMANAGER DL/1 Report Panel enables you to:

- produce a report on all the DL/1 segments. See section 19.9.2.
- produce a report on the secondary key access paths derived by DESIGNMANAGER. See section 19.9.3.

```
--------------- DESIGNMANAGER DL/1 REPORT PANEL ----------------------------
COMMAND ===)


Choose type of DL/1 REPORT desired: select only one


  ACCESS PATHS       ===)        ( Y/YES for SECONDARY ACCESS PATHS)

  SEGMENTS           ===)        ( Y/YES for SEGMENTS)









DICTIONARY:                                STATUS:
```

Figure 19.6 The DESIGNMANAGER DL/1 Report Panel

19.9.2 The ACCESS PATHS Field:

The ACCESS PATHS field, in which Y or YES is entered to report the secondary key access paths derived from multi-valued dependencies defined in USERVIEW members of the modeling dictionary and from MULTI-ATTRIBUTES and MULTI-ASSOCIATION clauses specified in ENTITY members.

19.9.3 The SEGMENTS Field:

The SEGMENTS field, in which Y or YES is entered to produce a report on all of the segments generated on the workbench design area.

19.10 The DESIGNMANAGER PRODUCE OUTPUT PANEL

The DESIGNMANAGER Produce Output Panel is displayed after the DESIGNMANAGER DB2 Produce Panel or the DESIGNMANAGER SQL/DS Produce Panel. The format of the DESIGNMANAGER Produce Output Panel is shown in Figure 19.7.

Full descriptions of the options that you can select is given in Section 19.11.

```
---------- DESIGNMANAGER PRODUCE OUTPUT PANEL ----------

Specify selection for CREATE TABLES , choose one:

  ALL                ===)          ( Y/YES  all relations used)
                                   (only specified relation-names)
  NAMES name-list    ===)
                                   (only specified relation-numbers)
  NUMBERS range-list ===)

Output Selection - Optional

  ONTO filename      ===)           (FIRST SECOND THIRD or FOURTH or as
                                     LOPT1 is tailored)
  ALPHA              ===)           ( Y/YES  alphanumeric order)

  USING FORMAT name  ===)
    (available with USER FORMATTED OUTPUT facility)

DICTIONARY:                                STATUS:
```

Figure 19.7 The DESIGNMANAGER Produce Output Panel

19.11 SCREEN INPUT

19.11.1 Introduction

The DESIGNMANAGER Produce Output Panel consists of six entry fields. You should consult the DESIGNMANAGER User's Guide for details of the clauses and keywords available with the PRODUCE DB2 or PRODUCE SQL/DS commands. This panel allows you to specify output control options for either of these commands.

There are two categories of selection fields provided:

- member related (see section 19.11.2).
- output related (see section 19.11.3).

19.11.2 The MEMBER Fields:

The MEMBER fields control the member selection for the PRODUCE command. Only one field must be chosen. The member fields are:

- the ALL field, in which Y or YES is entered to use every relation in the workbench design area to generate a CREATE TABLE command.
- the NAMES field, in which only the relation-names specified are used in generating CREATE TABLE commands.
- the NUMBERS field, in which a range-list of relation-numbers is given, to be used in generating CREATE TABLE commands.

19.11.3 The OUTPUT Fields are:

- the ONTO field, in which optionally the keywords FIRST, SECOND, THIRD, OR FOURTH are entered, (unless otherwise tailored in the macro LOPT1), to specify the logical output file in which the CREATE TABLE commands are stored. If this field is left blank, the CREATE TABLE commands just displayed on the terminal screen.

- the ALPHA field, in which Y or YES is entered to report the named relations from CREATE TABLE commands prior to unnamed relations.

- the USING FORMAT field, in which a valid FORMAT member is entered to tailor the layout of the CREATE TABLE commands displayed.

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AMENDMENT RECORD

This manual when issued should contain 56 pages (28 sheets), comprising:

Preliminary pages	10 pages (5 sheets)
Chapter 1	2 pages (1 sheet)
Chapter 2	4 pages (2 sheets)
Chapter 3	4 pages (2 sheets)
Chapter 4	4 pages (2 sheets)
Chapter 5	8 pages (4 sheets)
Chapter 6	4 pages (2 sheets)
Chapter 7	2 pages (1 sheet)
Chapter 8	2 pages (1 sheets)
Chapter 9	2 pages (1 sheets)
Chapter 10	4 pages (2 sheets)
Chapter 11	2 pages (1 sheet)
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Amendment Record	2 pages (1 sheet)

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Amendment Record

Amendment List No.	Date of Incorporation	Initials	Notes
1	14.10.87	APS	In September 1987 reprint.

MSP Amendment List

DATAMANAGER

Using DATAMANAGER under TSO/ISPF

(Second Edition)

Amendment List 1

Date of issue: 09.87

In the event of any query on this amendment list, please telephone your local MSP Product Supplier at the number given on the card at the front of your MANAGER Products binder.

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2 Update page AR-2 to record the incorporation of Amendment List 1.

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