CA IDMS - 19.0
Using the Database Dictionary
Query Facility Option

Date: 15-Jan-2018
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Using the Database Dictionary Query Facility Option

CA IDMS DQF gives you quick and easy online access to the contents of CA IDMS dictionaries. The menu structure of CA IDMS DQF allows you to find whatever information you need, without using complicated syntax. Cross-references are listed on the menus, eliminating a need for knowledge of dictionary structure. Instead of returning to menus to locate additional details, you can transfer directly (jump) between screens.

For more information, see the following topics:
- Locate and Examine Dictionary Contents Easily Online (see page 7)
- A Tool for Every Database User (see page 8)
- Special Features (see page 9)
- A Typical DQF Query (see page 13)
- How to Use CA IDMS DQF (see page 13)
- Screen Access & Information (see page 13)
- The Environment (see page 13)
- The CA IDMS DQF Session (see page 14)
- Screens (see page 31)
- DQF Operations (see page 45)

Locate and Examine Dictionary Contents Easily Online

Contents
- Find Relationships Between Entities (see page 8)

CA IDMS DQF helps you find detailed information in an Integrated Data Dictionary (IDD) quickly and easily. Information about specific dictionary entities is available online. There is no longer a need to wait for batch reports about the dictionary. Because CA IDMS DQF is a query-only product, there is no possibility of unwarranted changes in the dictionary.

Developers, programmers, DBAs, analysts—any authorized users who need dictionary data—can readily examine the contents of each dictionary, without using complicated syntax. Menus section you rapidly to specific information. Menus allow access to details and cross-references about each entity. Knowledge of dictionary structure is not required.

In addition to making choices from the menus, you can transfer directly to any detail or cross-reference screen. For example, after reviewing the definition of a specific dialog, you can jump directly to details about one of its records.
Find Relationships Between Entities

Using cross-references listed on menus, you can examine entity relationships whether or not you know dictionary structure. Thus, from the cross-reference list on the Dialog Menu, cross-reference screens are available, listing the dialog’s records, maps, or processes.

A Tool for Every Database User

Everyone who uses the Integrated Data Dictionary can benefit from CA IDMS DQF. The following display illustrates some typical queries. With or without knowledge of IDD syntax or structure, you can find dictionary information easily by using the menus.

Developers or Programmers do not need special syntax to locate information. With CA IDMS DQF they can:

- Review existing entities before starting a new application
- Compare record definitions while developing an application
- Verify definitions
- Study effects of proposed modifications on other entities
- Determine the far reaching effects of changes in a data element or record
- Standardize applications.

Database Administrators (DBAs) can manage dictionaries more efficiently by accessing information online. Many tasks the DBA performs will benefit from easy access to facts from the dictionary. The DBA can use CA IDMS DQF to:

- Monitor entities being added to the IDD
- Manage schemas and subschemas
- Ensure that all systems and applications are documented
- Resolve conflicts such as similar names for elements
- Standardize routines.

System Analysts can analyze old and new systems faster. Online information from the IDD helps the analyst perform several different tasks:

- Analyze proposed changes to systems
- Determine if existing entities can be used for new systems
- Verify components to be turned over for migration
Special Features

Contents
- Comprehensive Menus (see page 10)
- Access to More Than One Dictionary (see page 10)
- Knowledge of Dictionary Structure Not Required (see page 10)
- Access to Any Detail Screen (see page 11)
- Access to the Selection List (see page 11)
- Session Suspension (see page 12)

Several special features make CA IDMS DQF exceptionally easy to use.
Comprehensive Menus

All of the information screens can be accessed with menus. The Dictionary Entity Main Menu lists all of the second level menus. The following display illustrates the large variety of menus that are available. From a second level menu, you can select detail information on an entity or select cross-reference information for the entity.

Access to More Than One Dictionary

A choice of dictionaries and nodes is available on the Dictionary Entity Main Menu. You can examine an entity in one dictionary, return to the Dictionary Entity Main Menu, select another dictionary, and access information on a similar entity in the second dictionary.

Knowledge of Dictionary Structure Not Required

Knowledge of the relationships between entities in the dictionary is not necessary. Second level menus list cross-references to related entities. Specifying an entity name and version number and entering a simple code (such as REC for record) from a second level menu takes you to the next screen. For example, REC entered from the Dialog Menu (alone with the dialog name and version) calls up a Dialog/Record cross-reference screen.

Exhibit 2.2: CA IDMS DQF Menus
Access to Any Detail Screen

As an alternative to accessing a detail information screen from a menu, you can transfer directly to the detail information screen, without going back to a menu. From each second level menu or detail information screen, it is easy to access any other detail information screen by entering a combination code (code.code) and specifying an entity name and version number. For example, the combine code REC.ELE calls up a Records/Elements cross-reference screen, which lists all the elements that make up the specified record, along with layout information. In the example illustrated below, the user jumped from Dialog/Records to Record/Elements to Element/Basic Information.

Access to the Selection List

A selection list, used to find out what entity names are in the dictionary, is available from these second-level menus:

- Dialog
- Map
- Module
- Process
- Program
- QFile
- Record
- Schema
- Subschema
- Table

The selection list is easily accessed by first accessing one of the listed second-level menus. From that menu, you can choose selection list (LST) from the detail options offered. Next, by choosing one of the entity names displayed in the selection list, basic information on that entity is displayed, and information on cross-reference entities (for example, dialogs and records related to that entity) can be quickly accessed.
Session Suspension

At the end of a session you may want to retain the current entity names so that later on it is possible to return quickly to the same information. If you leave an CA IDMS DQF session by using the END PF key from the Dictionary Entity Main Menu, the scratch records are not deleted and the currency of the entities examined is retained, as long as you stay in CA IDMS/DC. As a result, the most recently accessed entity names do not have to be entered the next time you access CA IDMS DQF.

Exhibit 2.3: Jumping Directly from One Information Screen to Another
A Typical DQF Query

In an CA IDMS DQF session you can access any information screen by using the menus or by transferring directly to any detail information screen. Exhibit 1.4 illustrates a typical sequence of events for a user who is new to the facility.

The session begins at the Dictionary Entity Main Menu. From that menu the Record Menu is selected, and then the Record/Element cross-reference screen.

While viewing Record/Element cross-references, the user selects a specific element and transfers directly to basic information on that element.

From the Element/Basic Information screen the user jumps back to the Record/Element information by simply entering a combination code (REC.ELE) for the screen, because CA IDMS DQF remembers the current record name and version.

When enough information on specific elements is gathered, the user transfers to the RECORD/DIALOG cross-reference screen, to determine which dialogs use the record.

Pressing a PF key produces the Dictionary Entity Main Menu, showing all of the entities available for further selection.

How to Use CA IDMS DQF

Details of the steps used to access information using CA IDMS DQF are described in .

Screen Access & Information

An illustration of each screen type is in . Descriptions of all the fields on the CA IDMS DQF screens are contained in the Glossary.

The Environment

CA IDMS DQF operates under CA IDMS and CA ADS. It provides full-screen display on all IBM 3270-type terminals (models 2 through 5).
The CA IDMS DQF Session

This section discusses how to use CA IDMS DQF to find dictionary information and describes a typical CA IDMS DQF session.

CA IDMS DQF provides easy access to detail information and cross-reference information on entities in the dictionary. Because CA IDMS DQF is a query-only product, access can be made available to many users without any possibility of unwarranted changes in dictionary entities.

Accessing Information Screens

To access information screens (cross-reference or detail), you can select options from second level menus or you can transfer directly.

In an CA IDMS DQF session, you can select options from the CA IDMS DQF menus and specify entity names and version numbers. All information screens are accessible by selecting options from those listed on the menu.

Another method of accessing information screens is to enter combination codes that allow direct transfer between screens; that is, you can jump directly to any information screen from any other screen by using a combination code (code.code).
This section includes several typical sequences of screens which illustrate the use of menus and combination codes.

PF Keys

The use of Program Function (PF) keys is also described in this section. PF keys are set to transfer quickly to higher level screens and to page up and down through a series of screens.

For more information, see the following topics:
- Conceptual View (see page 15)
- Special Functions (see page 17)
- Steps Used to Find Information (see page 18)
- Beginning the CA IDMS DQF Session (see page 19)
- Using the Menus (see page 20)
- Transferring Directly to Any Information Screen (Jumping) (see page 27)
- Ending an CA IDMS DQF Session (see page 31)

Conceptual View

Contents
- First Level (see page 15)
- Second Level (see page 15)
- Third Level (see page 16)

A conceptual view of CA IDMS DQF is shown in Exhibit 2.1. After the Dictionary Query Facility entry screen, there are three functional levels.

First Level

The Dictionary Entity Main Menu appears when you press Enter from the Dictionary Query Facility entry screen. The Dictionary Entity Main Menu displays a list of dictionary entities. You can proceed to the second level menu from the list, or you can jump to the third (detail) level.

At the first level you can also specify a dictionary name and/or a node name. If these names are not specified, the default dictionary is accessed.

Second Level

A second level menu displays a list of detail options and cross-reference options for the entity selected from the Dictionary Entity Main Menu. From a second level menu, you can display the detail information screen or a selection list.
Direct Transfer--Alternatively, you can proceed from a second level menu direction to any detail information screen. See Transferring Directly to Any Information Screen (Jumping) (see page 27).

Third Level

Detail information screens and selection list screens are at the third level. A detail information screen contains either specific data about an entity or cross-reference information relating the entity to other entities in the dictionary. A selection list screen provides a list of the entity occurrences appearing in the dictionary for a given entity.

Direct Transfer--From each detail information screen or selection list screen, you can jump to any other detail level screen by using combination codes. See Transferring Directly to Any Information Screen (Jumping) (see page 27).

Exhibit 3.1: Conceptual View of CA IDMS DQF
CA IDMS DQF performs several functions that help you find information quickly. Current names and version numbers are saved automatically. Other functions are activated by entering a command in the OPTION field or by pressing a PF key.

Automatically Saving Names and Version Numbers

CA IDMS DQF automatically saves the current name and version number of each entity accessed. Therefore, you can return to the most recently accessed entity of a given type without entering the name and version again. Of course, if you enter a new name and version number along with an option code, information on the newly named entity is displayed.

If you use the END PF key to leave CA IDMS DQF from the Dictionary Entity Main Menu, the most recent names and version numbers are retained until you sign off of CA IDMS/DC.

OPTION Field

Near the top left of each screen is the OPTION field. You can enter commands or screen codes in the OPTION field. To delete unwanted characters in the OPTION field, use the ERASE END OF FILE (ERASE EOF) key, the DELETE key, or the space bar.

Commands

Several commands can be entered in the OPTION field: BYE, RETURN, UP, and DOWN.

BYE

The BYE command returns the system to the CA IDMS/DC system prompt.

RETURN

The RETURN command takes you to the Dictionary Entity Main Menu from the second or third level.
UP and DOWN

On a detail information screen, when the display indicates that it is one of several pages (for example, PAGE 1 of 8), you can use the UP and DOWN commands to view the other pages.

The UP command moves the physical "window" (your terminal screen) one page up toward the first page of the display.

The DOWN command moves the "window" one page toward the last page of the display.

PF Keys

Program Function (PF) keys are set to help you move easily to higher level screens or to scroll within a series of screens when there is more than one screen of data.

<table>
<thead>
<tr>
<th>Key</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>PF3 or PF15</td>
<td>END</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>PF4 or PF16</td>
<td>RETURN</td>
</tr>
<tr>
<td>PF7 or PF19</td>
<td>UP</td>
</tr>
<tr>
<td>PF8 or PF20</td>
<td>DOWN</td>
</tr>
</tbody>
</table>

Steps Used to Find Information

The following table lists the steps required to find information in the dictionary. The steps are described in detail in the rest of this section.

<table>
<thead>
<tr>
<th>User Action</th>
<th>System Response</th>
<th>For More Information See--</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Invoke CA IDMS/DC</td>
<td>System Prompt Screen</td>
<td>Beginning the CA IDMS DQF Session</td>
</tr>
<tr>
<td>2. Enter the CA IDMS DQF Task Code</td>
<td>Dictionary Query Facility Entry Screen</td>
<td>Beginning the CA IDMS DQF Session</td>
</tr>
<tr>
<td>User Action</td>
<td>System Response</td>
<td>For More Information See--</td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>--------------------------------------</td>
<td>----------------------------</td>
</tr>
<tr>
<td>3. Press Enter</td>
<td>Dictionary Entity Main Menu</td>
<td>Beginning the CA IDMS DQF Session</td>
</tr>
<tr>
<td>4. Request a second level menu.</td>
<td>Second level menu</td>
<td>Using the Menus</td>
</tr>
<tr>
<td>Enter: 3-letter option code</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optional: dictionary name node name</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Request a detail information screen (including the Selection List) using a menu option. Enter: 3-letter code of detail option or cross-reference option Entity name (if applicable) Entity version number (if applicable)</td>
<td>Entity detail or cross-reference information</td>
<td>Using the Menus</td>
</tr>
<tr>
<td>Alternate Steps 4 or 5. Request a detail information screen using a combination code. Enter: Combination code (code.code) Entity name Entity version number (if applicable)</td>
<td>Entity detail or cross-reference information</td>
<td>Transferring Directly to Information Screen</td>
</tr>
<tr>
<td>6. Continue using menus and combination codes until you have completed the session.</td>
<td>System Prompt Screen</td>
<td>Ending the CA IDMS DQF Session</td>
</tr>
<tr>
<td>7. Exit from CA IDMS DQF</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Exhibit 3.3: Steps to Find Information

**Beginning the CA IDMS DQF Session**

**Contents**

- Accessing the Dictionary Entity Main Menu (see page 20)

Before starting to use CA IDMS DQF, you must invoke the system prompt screen of CA IDMS/DC. If you need information on how to do this, see your system administrator.

Enter the CA IDMS DQF task code.

The Dictionary Query Facility entry screen displays.

```
CCCCCCCCC
CCCCCCCCC
CCC
CCC    AAAA
CCC    AAAAA
CCC    AAA
CCC    AAA
CCC  AAA  AAA
CCAAACCCCCC
AAACCCCCCC
AAACCCCCCC
AAA    AAA
AAA    AAA
AA     AAA
```

PRESS ENTER TO RECEIVE MAIN MENU
Exhibit 3.4: Dictionary Query Facility Entry Screen

Accessing the Dictionary Entity Main Menu

When the Dictionary Query Facility entry screen is displayed, press Enter.

The Dictionary Entity Main Menu displays.

DQF Rnn.nn --- DICTIONARY ENTITY MAIN MENU ------- CA, INC. hh:mm mm/dd/yy
OPTION ===> DICTIONARY ===> SYSDICT NODE ===> 

<p>| MENU OPTIONS |</p>
<table>
<thead>
<tr>
<th>--------------</th>
<th>----------------</th>
<th>----------------</th>
</tr>
</thead>
<tbody>
<tr>
<td>APP APPLICATION</td>
<td>LOA LOAD MODULE</td>
<td>SCH SCHEMA</td>
</tr>
<tr>
<td>ATT ATTRIBUTE</td>
<td>MAP MAP</td>
<td>SEG SEGMENT</td>
</tr>
<tr>
<td>CLA CLASS</td>
<td>MOD MODULE</td>
<td>SSC SUBSCHEMA</td>
</tr>
<tr>
<td>DIA DIALOG</td>
<td>PRC PROCESS</td>
<td>SUB SUBSYSTEM</td>
</tr>
<tr>
<td>ELE ELEMENT</td>
<td>PRO PROGRAM</td>
<td>SYS SYSTEM</td>
</tr>
<tr>
<td>FIL FILE</td>
<td>QFI QFILE</td>
<td>TAB TABLE</td>
</tr>
<tr>
<td>REC RECORD</td>
<td>USE USER</td>
<td></td>
</tr>
</tbody>
</table>

PF3= EXIT DQF

Exhibit 3.5: Dictionary Entity Main Menu Screen

Using the Menus

Contents

- Accessing Another Dictionary or Node (see page 21)
- Accessing a Second Level Menu (see page 21)
- Accessing an Information Screen (see page 22)
- Using the Selection List (see page 23)
- Accessing the General Selection List (see page 24)
- Accessing the Refined Selection List (see page 24)
- Accessing Basic Information (see page 25)
- OPTION Default (see page 26)
- Returning to the Second Level Menu (see page 26)
- Returning to the Dictionary Entity Main Menu (see page 26)
- Typical Sequence of Events, Using Menu Selections (see page 27)
You can access all information screens by selecting options listed on the menus and specifying entity names and version numbers when they are required. This section describes how to find information in the dictionary by using selections listed on the menu and how to return to a higher level. The alternate method of accessing information screens is described in Transferring Directly to Any Information Screen (Jumping) (see page 27).

Accessing Another Dictionary or Node

If you have more than one dictionary, before selecting an option, you can specify the name of a dictionary in the DICTIONARY field on the Dictionary Entity Main Menu screen. You can also return to the Dictionary Entity Main Menu from another screen and select another dictionary.

If you are operating in a multiple machine environment, you can also specify the name of a DDS node in the NODE field. Be sure that the specified dictionary is in the CV indicated in the NODE field.

Default dictionary: The default dictionary is the dictionary set for your logical terminal.

Accessing a Second Level Menu

To access a second level menu from the Dictionary Entity Main Menu, type a three-letter code in the OPTION field. (Each code is listed on the menu screen to the left of the corresponding option description.)

```
DICTIONARY ENTITY MAIN MENU
```

```
OPTION==> REC
```

Press Enter. The Record Menu screen displays.

```
DQF Rnn.nn --- RECORD MENU ------------------------ CA, INC. hh:mm mm/dd/yy
```

```
OPTION ==>
```

```
NAME ==> VERSION ==> 1
```

```
DICTIONARY ==> ADSDICT NODE ===> 
```

```
DETAIL OPTIONS
-------------
BAS BASIC INFO OPTIONS
LST SELECTION LIST
SYN SYNONYMS
```

```
DIA DIALOGS SSC SUBSCHEMAS
ELE ELEMENTS
FIL FILES
MAP MAPS
PRO PROGRAMS
```

```
PF4= MAIN MENU
```

Exhibit 3.6: Accessing a Second Level Menu
Accessing an Information Screen

To access a detail or cross-reference information screen from a second level menu, type:

- A three-letter code in the OPTION field (from the codes listed on the second level menu screen);
- The name of an entity in the NAME field if you requested BAS or SYN in the OPTION field; and
- The version number of the entity in the VERSION field (if a version number is applicable).

Press Enter. The RECORD/ELEMENTS cross-reference screen displays.

The following display shows an alphabetical list of the dictionary entities, with their codes in the left column. The options on each second level menu are also listed under Valid Choices in the exhibit.
### Exhibit 3.8: Option Codes and Valid Combination Choices

#### Additional Detail and Cross-Reference Option Descriptions:

- **ARE AREAS**
- **BAS BASIC INFORMATION** Default option from second level menu
- **LRF LOGICAL RECORDS**
- **LST SELECTION LIST**
- **SET SETS**
- **SYN SYNONYMS**

#### Commands:

- **BYE** (clears CA IDMS DQF scratch records)
- **RETURN**
- **UP**
- **DOWN**

To jump to any information screen, enter:

code.code name version

---

**Using the Selection List**

A selection list (LST) information screen is available from these second level menus:

- **Dialog**
- **Map**
Accessing the General Selection List

You can access either a general selection list or a refined selection list. The general selection list provides a list of all names appearing in the dictionary for the specified entity. The refined version of the selection list provides only the entity names that include certain characters.

To access a general selection list from the second level menus listed above:

1. Type LST in the OPTION field.
2. Press the ERASE EOF key in the NAME field to ensure that the NAME field is blank.
3. Press Enter.

The selection list appears containing a list of all names in the dictionary for that entity.

Accessing the Refined Selection List

You can access a refined version of the selection list that lists only entity names that include certain characters. In the NAME field, you can enter a partial entity name and any or all of the characters used to match alphanumeric characters.

- @ matches any alphabetic character
- # matches any numeric character
- * matches any character

Any one or all of these characters are used to replace characters in the NAME field. For example:

DQF***## in the NAME field indicates that you want a selection list that includes only those entity names beginning with DQF, followed by three alphanumeric characters, and with numeric characters in the last two positions.
@@@***## in the NAME field indicates that you want a selection list that includes those entity names beginning with any three alphabetic characters, followed by three alphanumeric characters, and ending with two numeric characters.

Any spaces in the middle of the NAME field remain spaces. Spaces at the end of the NAME field are filled with asterisks (**). For example:

DQF #### entered in the NAME field finds those entity names that include the characters DQF in the first three positions, followed by one space, and ending with four numeric characters.

To access the refined selection list:

1. Type **LST** in the OPTION field.
2. Type the characters for a partial name, or include the characters used to match unspecified characters (@, #, or *) in the NAME field.
3. Press Enter.

The selection list appears containing a list of all names for that entity that match the specified characters.

### Accessing Basic Information

To access basic information from either the general selection list or the refined selection list:

1. Place the cursor to the left of an entity name.
2. Type any character.
3. Press Enter.

The basic information screen describing the selected entity name appears.
OPTION Default

On a second level menu, if you enter only the entity name and version number, and leave the OPTION field blank, the entity Basic Information screen displays.

Exhibit 3.9: Accessing Basic Information Example

OPTION Default

On a second level menu, if you enter only the entity name and version number, and leave the OPTION field blank, the entity Basic Information screen displays.

Exhibit 3.9: Accessing Basic Information Example

OPTION Default

On a second level menu, if you enter only the entity name and version number, and leave the OPTION field blank, the entity Basic Information screen displays.

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Exhibit 3.9: Accessing Basic Information Example

OPTION Default

On a second level menu, if you enter only the entity name and version number, and leave the OPTION field blank, the entity Basic Information screen displays.

Exhibit 3.9: Accessing Basic Information Example

Returning to the Second Level Menu

To return to a second level menu from an information screen press PF3/15.

Returning to the Dictionary Entity Main Menu

To return to the Dictionary Entity Main Menu, press PF4/16.
Typical Sequence of Events, Using Menu Selections

A typical sequence of events using menu selections is shown below. The query:

- What is the description of a record in the dialog Dialog1 (version 1) and what are the elements in that record?

- The spelling and the version number of the record are verified by accessing the Dialog/Record cross-reference screen first.

Transferring Directly to Any Information Screen (Jumping)

- Combination Code (see page 28)
- Combination Codes Entered on the Dictionary Entity Main Menu (see page 29)
- Typical Sequence of Screens Using Combination Codes (see page 29)
- Returning to a Screen from Which You Transferred (see page 30)

To transfer directly to a particular detail information screen without accessing other menus, use combination codes, as described below.

From any second level menu or detail screen, to access another detail screen, type:

- The combination code (defined below) in the OPTION field.

- The entity name in the NAME field. The entity named must be of the same type as the first part of the combination code.
Combination Code

The combination code consists of three parts:

- The code of a main menu selection (option-1-code).
- A period
- The code of a valid combination option (option-2-code).

**No spaces** are allowed in a combination code.

Valid choices for combinations are indicated in the following table. Choose either a detail option or a cross-reference option, not both.

The exhibit below shows the entries for each field required to access a detail information screen directly.

<table>
<thead>
<tr>
<th>Field</th>
<th>Entry</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPTION</td>
<td>option-1-code.option-2-code</td>
<td>REC.ELE</td>
</tr>
<tr>
<td>NAME</td>
<td>option-1-name</td>
<td>ACWK001-DATE-TIME</td>
</tr>
<tr>
<td>VERSION</td>
<td>option-1-version-number</td>
<td>100</td>
</tr>
</tbody>
</table>

**IDMSDB--Combination Code**

- Type the indicated information and press Enter.
- The Dialog/Record cross-reference screen displays for the specified dialog name and version number.
IDMS--Combination Code (2)

- Type the indicated information and press Enter.
- The Record/Basic Information screen displays for the specified record.

Combination Codes Entered on the Dictionary Entity Main Menu

You can enter a combination code on the Dictionary Entity Main Menu. If there is a current name and version for the selection, the system displays the requested detail information.

If there is no current name and version, you can type a name and version at the detail level and press Enter.

Typical Sequence of Screens Using Combination Codes

The exhibit below shows a typical sequence of screens accessed by combination codes to answer the same question that was asked for Option Defaults.

The query:

- What is the description of a record in the dialog Dialog1 (version 1) and what are the elements in that record?
- The spelling and the version number of the record are verified by accessing the Dialog/Record cross-reference screen first.
Returning to a Screen from Which You Transferred

Sometimes you may want to return to a detail information screen that you left by a jump. For instance, you might want to go back to check a version number on the previous screen. But PF3 would take you up a level to a second level menu for the current entity.

The situation is illustrated above. After finding the name of the record on the Dialog/Record cross-reference screen, the user entered REC.BAS and the name, leaving the version number displays unchanged. The Record/Basic Information screen appeared with a message. The user wanted to return to the Dialog/Record cross-reference screen to check the spelling of the record name and check the version number, because the system displayed the message:

NAME AND/OR VERSION NOT FOUND

Like the user described above, you may want to return to a previous screen. Whether you are still at the detail level, or you have pressed PF3 and you are at the menu level, you can transfer directly to the previous detail screen to verify the name and the version number. To access the previous screen, transfer directly by typing:

- The combination code (code.code) in the OPTION field.
- The name of the entity (same type as first part of combination code) in the NAME field.
- The entity version number in the VERSION field.

Press Enter.
Ending an CA IDMS DQF Session

To leave CA IDMS DQF from any screen, type BYE in the OPTION field and press Enter. The system returns to the CA IDMS/DC prompt.

The END PF keys (PF3/15) can also be used to leave CA IDMS DQF from the Dictionary Entity Main Menu.

When you leave by using the END PF key, the most recent name and version of each entity accessed in the current session is saved. The current names and version numbers are retained until you leave CA IDMS/DC.

Screens
This section contains descriptions of the screens in CA IDMS DQF

First, the Dictionary Query Facility entry screen is shown. Next is the Dictionary Entity main Menu, followed by a chart showing all the options available. Also included are descriptions of the fields on second level menu screens and detail information screens. Finally, diagrams showing screen access for all the entity types are shown in alphabetical order.

The terms used on the detail information screens are explained in the Glossary.

For a general discussion of how to access screens, see The CA IDMS DQF Session (see page 14).

Dictionary Query Facility Entry Screen

Contents

- Dictionary Entity Main Menu (see page 32)
- Dictionary Entity Main Menu Options (see page 33)
- Added Information (see page 33)

After you enter the task code for CA IDMS DQF, the system displays the Dictionary Query Facility entry screen.

```
CCCCCCCCCCC
CCCCCCCCCC
CCC
CCC    AAAA
CCC    AAAAA
CCC    AAAAAA
CCC    AAA AAA
CCC  AAA  AAA
CCAAACCCCC
AACCCCCCCC
AAA    AAA
AAA    AAA
AA    AAA
```

DICTIONARY QUERY FACILITY
PRESS ENTER TO RECEIVE MAIN MENU

Exhibit 4.1: Dictionary Query Facility Entry Screen

Dictionary Entity Main Menu

The Dictionary Entity Main Menu screen is shown below.
OPTION
Enter the three-letter code of any of the options listed on the menu, or a combination code \((\text{code. code})\) for a detail information screen.

DICTIONARY
Enter the name of the dictionary you want to access.
Default: The current dictionary for your terminal.

NODE
Multiple machine environments only. Enter the name of a DDS node that is the communication link between central versions and CPUs. By identifying the DDS node, you can access a dictionary that exists in a CPU or region other than the one in which CA IDMS DQF is processing.
Default: The node in which CA IDMS DQF is processing.

PF3= EXIT DQF

Exhibit 4.2: Dictionary Entity Main Menu Screen

Dictionary Entity Main Menu Options

The options available from the main menu are illustrated in the followig illustration. The combination codes for the detail screens are shown.

Added Information

When you specify a cross-reference, the system may show more information than you expected. For example, when you specify REC.PRO (Record/Programs), the system displays information on programs that are related to the record. The display may also show dialogs that are identified as programs with the same builder code. The extra information is included because CA IDMS DQF examines the dictionary builder code to classify entities.
IDMSDB--Added Information

Exhibit 4.3: Options
Typical Screens

Contents

- Common Fields (see page 35)
- Second Level Menu Screen (see page 35)
- Basic Information Screen (see page 36)
- Selection List Screen (see page 36)
- Synonym Screen (see page 37)

Common Fields

Below are descriptions of fields common to second level menu and detail option screens.

- **Release Number**
  The version of CA IDMS DQF that is installed in your environment.

- **Screen Title**

- **Current Time**
  In the format hh:mm where hh represents the hour on a 24-hour clock and mm represents the minutes.

- **Current Date**
  In the format mm/dd/yy where mm represents the month, dd represents the date of the month, and yy represents the year.

- **OPTION**
  The field in which you can enter either a menu selection, a combination code that represents an information screen title, or a special function.

- **Message Area**
  The message area is below the OPTION field. For an explanation of each message, see .

- **NAME**
  The field in which you can enter the name of a specific entity.

- **VERSION**
  The field in which you can enter the version number of the entity specified in the NAME field.

- **PF Keys**
  Functions of PF keys available from the current screen are shown at the bottom of the screen.

Second Level Menu Screen

- **Detail Options**
  Screens that show detailed information specified to the entity named in the NAME field.
• Cross-Reference Options
  Screens that list entities related to the entity named in the NAME field.

Basic Information Screen

• Detailed Entity Information
  Details specific to the named entity.

• PAGE
  The page number of the screen in a series, and the total number of pages in the series.

Exhibit 4.4: Typical Second Level Menu Screen

Exhibit 4.5: Typical Entity Basic Information Screen

Selection List Screen

• Entity Occurrence Name
  The names of the specific occurrences of the entity chosen on the second level menu screen that match the characters appearing in the NAME field.
• **PAGE**
  The page number of the screen in a series, and the total number of pages in the series.

DQF Rnn.nn --- SUBSCHEMA SELECTION ----------- CA, INC. hh:mm mm/dd/yy
OPTION ===>          PAGE  1 OF  2

NAME ===> DQF***##

DQFSUB00  DQFSHEM  0001
DQFSUB01  DQFSHEM  0001
DQFSUB02  DQFSHEM  0001
DQFSUB03  DQFSHEM  0001
DQFSUB04  DQFSHEM  0001
DQFSUB05  DQFSHEM  0001
DQFSUB06  DQFSHEM  0001
DQFSUB07  DQFSHEM  0001
DQFSUB08  DQFSHEM  0001
DQFSUB09  DQFSHEM  0001
DQFSUB10  DQFSHEM  0001
DQFSUB11  DQFSHEM  0001
DQFSUB12  DQFSHEM  0001
DQFSUB13  DQFSHEM  0001
DQFSUB14  DQFSHEM  0001

...CONTINUED

PF3= END   PF4= MAIN MENU   PF7= UP   PF8= DOWN

Exhibit 4.6: Typical Entity Selection List Screen

**Synonym Screen**

• **SYNONYM Names**
  Alternate names for the entity (record or element) chosen on the second level menu screen.

• **PAGE**
  The page number of the screen in a series, and the total number of pages in the series.

DQF Rnn.nn --- RECORD / SYNONYMSE --- CA, INC. hh:mm mm/dd/yy
OPTION ===>          PAGE  1 OF  1

NAME ===> DATE-TIME

SYNONYM    VER  PREFIX
ACWK001-DATE-TIME  0001  PRIMARY
DATE-TIME  0100
CURRENT-DATE-TIME  0001
W001-DATE-TIME  0100  W001.

PF3= END   PF4= MAIN MENU   PF7= UP   PF8= DOWN

Exhibit 4.7: Typical Entity Synonym Screen

**Screen Access**

This section contains diagrams which show screen access for the following entity types:
The combination code \( \text{code.code} \) is shown for each screen.

APP
APPLICATION MENU

APP.BAS
APPLICATION BASIC INFORMATION
Exhibit 4.8: Application Screens

ATT
ATTRIBUTE MENU
ATT.REC
ATTRIBUTE/RECORDS
ATT.QFI
ATTRIBUTE/QFILES
ATT.PRO
ATTRIBUTE/PROGRAMS
ATT.BAS
ATTRIBUTE/PROGRAMS
ATTRIBUTE/FILES
ATT.ELE
ATTRIBUTE/ELEMENTS

Exhibit 4.9: Attribute Screens

CLA
CLASS MENU

CLA.BAS
CLASS
BASIC INFORMATION

Exhibit 4.10: Class Screens

DIA.REC
DIALOG/RECORDS
DIA.PRC
DIALOG/PROCESSES
DIA
DIALOG MENU
DIA.MAP
DIALOG/MAPS
Exhibit 4.11: Dialog Screens

- ELEMENT MENU
- ELE.REC ELEMENT/RECORDS
- ELE.MAP ELEMENT/MAPS
- ELE.SYN ELEMENT/SYNONYMS
- ELE.BAS ELEMENT
- BASIC INFORMATION

Exhibit 4.12: Element Screens

- FIL FILE MENU
- FIL.REC FILE/RECORDS
- FIL.BAS FILE
- BASIC INFORMATION

Exhibit 4.13: File Screens

- LOA LOAD MODULE MENU
- LOA.BAS LOAD MODULE
BASIC INFORMATION

Exhibit 4.14: Load Module Screens

MAP.TAB
MAP/TABLES

MAP.REC
MAP/RECORDS

MAP.ELE
MAP/ELEMENTS

MAP
MAP MENU

MAP.DIA
MAP/DIALOGS

MAP.LST

MAP
SELECTION LIST

MAP.BAS

BASIC INFORMATION

Exhibit 4.15: Map Screens

MOD
MODULE MENU

MOD.PRO
MODULE/PROGRAMS

MOD.LST

MOD
SELECTION LIST

MOD.BAS

BASIC INFORMATION

Exhibit 4.16: Module Screens

PRC
PROCESS MENU

PRC.DIA
PROCESS/DIALOGS

PRC.LST

PRC
SELECTION LIST

PRC.BAS

PROCESS
BASIC INFORMATION
Exhibit 4.17: Process Screens

Exhibit 4.18: Program Screens

Exhibit 4.19: QFILE Screens
Exhibit 4.20: Record Screens

Exhibit 4.21: Schema Screens
Exhibit 4.22: Segment Screens

SSC. USE
SUBSCHEMA/USERS

SSC.REC
SUBSCHEMA/RECORDS

SSC.PRO
SUBSCHEMA/PROGRAMS

SSC.LRF
SUBSCHEMA/LRF

SSC
SUBSCHEMA MENU

SSC.LST
SUBSCHEMA
SELECTION LIST

SSC.DIA
SUBSCHEMA/DIALOGS

Exhibit 4.23: Subschema Screens

SUB
SUBSYSTEM MENU

SUB.PRO
SUBSYSTEM/PROGRAMS

SUB.BAS
SUBSYSTEM
BASIC INFORMATION

Exhibit 4.24: Subsystem Screens

SYS
SYSTEM MENU

SYS.BAS
SYSTEM
**DQF Operations**

This section discusses the operation of CA IDMS DQF and covers system requirements, storage requirements, and the use of alternate dictionaries.
System requirements

System requirements for CA IDMS DQF include the operating environment, the terminal type, and the subschema.

Terminal Type

CA IDMS DQF can be used from an IBM 3270-type terminal (models 2 through 5), including a 3279 color display.

Subschema

CA IDMS DQF uses the IDMSNWKA and IDMSNWKG subschemas.

Security

Normal CA IDMS/DC security applies. You can limit access to CA IDMS DQF by setting security on your CA IDMS DQF task code.

Storage requirements

CA IDMS DQF uses the program pool, the storage pool, and the scratch/queue area.

Program Pool

Because all CA IDMS DQF run-time modules are reentrant, only one copy of CA IDMS DQF is required to support multiple users. CA IDMS DQF is required to support multiple users. CA IDMS DQF requires 6K to 200K of program storage for an average session.

Session Storage Pool

A session storage block is used for communication between CA IDMS DQF modules. Each terminal user requires 10K to 200K for storage during an average session; the session storage is released at the end of the session.
Scratch/Queue Area

Detail displays create a scratch paging file. This file varies from one to several thousand pages depending on the size of the detail block. This scratch area is released at the end of the session, if you leave CA IDMS DQF using the BYE command. If you leave the facility by pressing the PF3 or PF15 key from the Main Menu, the scratch area is retained until you leave CA IDMS/DC.

Alternative Dictionaries

CA IDMS DQF is an CA ADS application, and the installation process adds the CA IDMS DQF application to the CA IDMS Task Application Table (TAT) in the TOOLDICT dictionary. You must update each additional dictionary under which you intend to execute CA IDMS DQF.

See the CA IDMS installation sections for instructions on updating the additional dictionary(ies).