

**Chapter
2**

**SAVING QUERIES
AND TEMPORARY
STORAGE AREAS**

*Get on the
Fast Track!*



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**SYS-ED/
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Objectives:

You will learn:

- C Managing queries.
- C Temporary storage areas.
- C Managing profiles.



1 Interrupting a Query

When you run a query, a special panel called a "DATABASE STATUS PANEL" is displayed:

```
DATABASE STATUS PANEL
Your request is currently being processed by the Database Manager.
The relative cost estimate for your request is: 1
```

If the query is taking too long to run, and you want to cancel your query, press the RESET key and then the PA1 key while the DATABASE STATUS PANEL is displayed.

```
DSQ50466 QMF command interrupted! Do one of the following:
==> To continue QMF command,      type "CONT".
==> To cancel QMF command,        type "CANCEL".
==> To enter QMF debug,           type "DEBUG".
```

To cancel the running of your query, type CANCEL.

It is possible that your installation has made provisions to automatically interrupt or cancel a query that takes a long time to run. This is done through a facility known as a governor interrupt.

```
DSQnnnnn QMF governor prompt:
Command has executed for xxxxxxxx minutes
and fetched yyyyyyy rows of data.

==> To continue QMF command
      press the "ENTER" key.
==> To cancel QMF command
      type "CANCEL" and then press the ENTER key.
==> To turn off prompting
      type "NONPROMPT" then press the ENTER key.
```

2 Scrolling the Report

Your report can be longer or wider than the screen.

Moving the window is called scrolling.

To scroll in any direction, give the commands BACKWARD, FORWARD, LEFT, or RIGHT, or press the corresponding function key.

If you want to scroll directly to the top or bottom of your report, enter TOP or BOTTOM.

3 Saving a Query

Sometimes when you are ready to move on to another query, you want to use the query you have been working with later.

QMF does not keep a copy of your query to use later unless you save it.

If a query hasn't been saved, and you change and rerun it, the former query is lost.

Queries can be stored in the database with specific names.

To save a query use:

```
SAVE QUERY AS SYSEDQUERY
```

It can be saved from any panel that has a command line.

Displaying the names of your saved queries:

```
LIST QUERIES
```

Action	Name	Owner	
	SYSEDQUERY	QMFUSER	1 to 1 of 1

Query List

3.1 Displaying a Saved Query

When you have saved a query, you will want to retrieve it from the database.

To get SYSEDQUERY from the database, give the command:

```
DISPLAY QUERY SYSEDQUERY
```

Your saved query is displayed. Any query you have been working on is erased and replaced with the saved query.

To avoid losing your work, make sure you save any query you are working on before using the DISPLAY QUERY command.

3.2 Erasing a Query

QMF lets you erase any query you have saved in the database.

For example, to erase the query SYSEDQUERY, use the following command:

```
ERASE QUERY SYSEDQUERY
```

Once a query has been erased, it cannot be retrieved.



4 Temporary Storage Areas

There are a total of five Temporary Storage Work Areas.

Three work areas are used by QMF:

QUERY	Containing the SQL or QBE query.
DATA	Containing the rows and columns which have been retrieved.
FORM	Containing the default or modified form for DATA.

Two additional work areas are created by QMF:

PROFILE	Containing the User's profile.
PROCEDURE	Containing the QMF procedures (list of commands).

The contents of the work areas may be stored on permanent disk storage as DB2 tables.

4.1 Query Area

Query can be saved under a desired name by the SAVE command.

e.g. Save query as DISPDEPT.

The query can also be loaded back into temporary storage area through a two-step process:

1. Typing `DISPLAY DISPDEPT' which will then be displayed on the screen.
2. Typing `RUN QUERY' which will execute the query in QUERY.

4.2 Data Area

Data is the content of those cells selected from the intersection of the columns and rows from the table used in the QUERY. When a query is executed, data is loaded into the DATA area.

The content of data can be saved on permanent disk storage by the SAVE command.

e.g. SAVE data as DEPTDATA.

DEPTDATA can be loaded back into the work area by typing `DISPLAY DEPTDATA'.

Loading data from the permanent storage into work area will force QMF to create a default form in the work area called FORM. The loaded data will be displayed on the screen formatted by the FORM.

4.3 Form Area

The form in the FORM area may be saved by the SAVE command:

e.g. SAVE form as DEPTFORM.

Data which has been saved can be retrieved and redisplayed. After the data has been formatted by the appropriate form, the following commands will serve to redisplay the data:

DISPLAY DEPTDATA	Displays data with the default form.
DISPLAY DEPTFORM	Replaces the default form.
DISPLAY REPORT	Displays the data formatted by DEPTFORM.

A query can also be executed with a specific form such as RUN DISPDEPT (form = DEPTFORM).

4.4 FORM.MAIN

The form displayed with the data is called FORM.MAIN.

This form can be modified for such features as totals, headings, control breaks, editing of data, etc.

There are also backup panels (forms) available for extensive formatting.

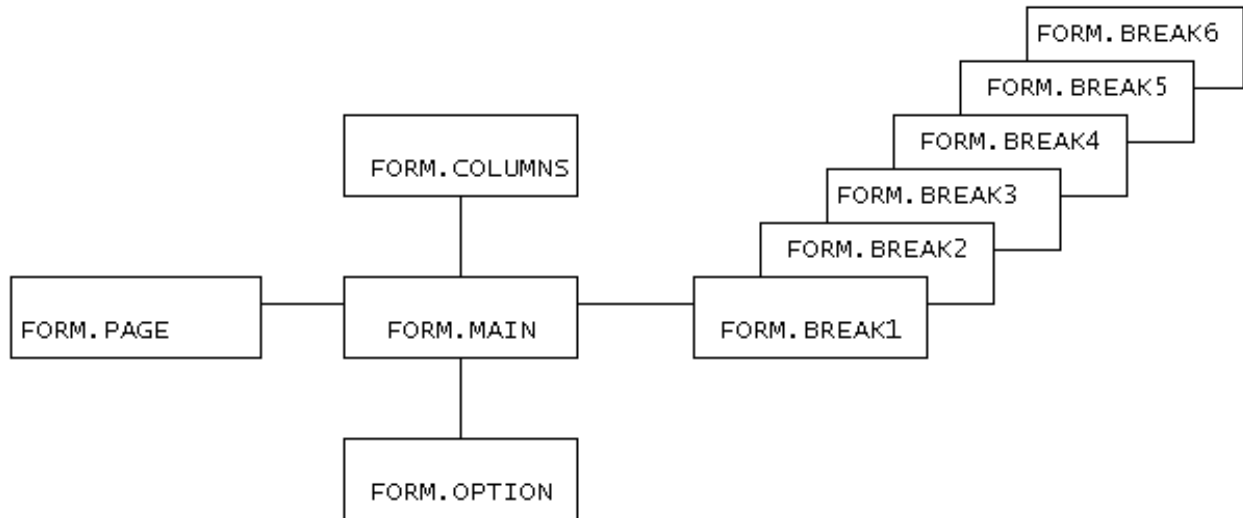


Figure 13. FORM PANELS

4.5 PROC Area

The PROC area is used to hold the QMF PROCEDURE. A procedure is a series of QMF commands saved under one name.

DISP PROC will display the contents of work area PROC.

A new procedure can be created in PROC. The contents of the PROC can be saved on permanent disk storage by the SAVE command.

e.g. SAVE PROC as DEPTPROC1

Depending on what area it is in, a procedure can be executed in two ways.

If the procedure is in the work area PROC, then it can be executed by RUN PROC.

If the procedure is in the database, then it can be executed by RUN DEPTPROC1.

where DEPTPROC1 = RUN DISPDEPTT (form = DEPTFORM)
PRINT REPORT

4.6 PROFILE Area

PROFILE describes the characteristics of the user's QMF session. Each QMF user should have a profile.

The `PF6`=QUERY key on the QMF home panel will display a SQL query panel or a QBE query panel. The panel to be displayed is dependent upon the make-up of the user's profile.

```
PROFILE
GENERAL OPERANDS:

CASE))))< UPPER   Entery   UPPER, STRING OR MIXED
DECIMAL))))<PERIOD Entery   PERIOD, COMMA OR FRENCH
CONFIRM))))<YES   Entery   YES OR NO
LANGUAGE))<SQL    Entery   SQL OR QBE

DEFAULT FOR PRINTING:

WIDTH))))< 132    NUMBER OF CHARACTERS PER LINE
LENGTH))))< 60   NUMBER OF LINES PER PAGE
PRINTER))))<     PRINTER TO BE USED FOR OUTPUT

QMF ADMINISTRATION OPERANDS:

SPACE))))< 'DSQTDEF'
                ENTER the name of SQL/DS DBSPACE In
                which tables will be saved by the
                SAVE DATA command

TRACE))))< NONE
                ENTER ALL, NONE or Character String of
                function-id, traced-level pairs

1=HELP  2=SAVE  3=END  4=PRINT  5=      6=QUERY  7=      8=
9=FORM  10=    11=    12=REPORT

OK, PROFILE IS DISPLAYED

COMMAND ))))<_
```

Figure 14. Profile Panel

4.7 Display Profile

The command 'DISPLAY PROFILE' will load the user's profile into the work area called PROFILE.

Since there is only one unique profile, the user does not have to create a name for it.

A profile in the work area PROFILE can be changed by the command:

```
SET PROFILE (LANG = QBE, CONFIRM = YES...)
```

These changes to the profile are not permanently saved in the database unless you use the SAVE command to execute:

```
SAVE PROFILE
```

Otherwise, the changes made to the profile will be terminated at the conclusion of the QMF session.