



**Program Directory for
IBM DB2 Universal Database Server for OS/390 and z/OS
Query Management Facility**

Version 07 Release 01, Modification Level 00

Program Number 5675-DB2

HSQ7710

for Use with
OS/390 and z/OS

Document Date: March 2001

GI10-8222-00

Note!

Before using this information and the product it supports, be sure to read the general information under “Notices” on page v.

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1.0 Introduction

This program directory is intended for the system programmer responsible for program installation and maintenance. It contains information concerning the material and procedures associated with the installation of Query Management Facility for OS/390 and z/OS. This publication refers to Query Management Facility for OS/390 and z/OS as QMF. You should read all of this program directory before installing the program and then keep it for future reference.

The program directory contains the following sections:

- 2.0, "Program Materials" on page 3 identifies the basic and optional program materials and documentation for QMF.
- 3.0, "Program Support" on page 5 describes the IBM support available for QMF.
- 4.0, "Program and Service Level Information" on page 6 lists the APARs (program level) and PTFs (service level) incorporated into QMF.
- 5.0, "Installation Requirements and Considerations" on page 7 identifies the resources and considerations for installing and using QMF.
- 6.0, "Installation Instructions" on page 13 provides detailed installation instructions for QMF. It also describes the procedures for activating the functions of QMF, or refers to appropriate publications.

Before installing QMF, read 3.2, "Preventive Service Planning" on page 5. This section tells you how to find any updates to the information and procedures in this program directory.

Do not use this program directory if you are installing QMF with a SystemPac or ServerPac. When using these offerings, use the jobs and documentation supplied with the offering. This documentation may point you to specific sections of the program directory as required.

If you are installing QMF using the MVS Custom-Built Product Delivery Offering (CBPDO, 5751-CS3), a softcopy program directory is provided on the CBPDO tape which is identical to the printed copy shipped with your order. Your CBPDO contains a softcopy preventive service planning (PSP) upgrade for this product. All service and HOLDDATA for QMF are included on the CBPDO tape.

1.1 QMF Description

IBM Query Management Facility (QMF) is a tightly integrated, powerful, and reliable tool that performs query and reporting for IBM's DB2 Relational Database Management System Family. It offers an easy-to-learn interactive interface. Users with little or no data processing experience can easily retrieve, create, update, insert, or delete data that is stored in DB2.

QMF offers a total solution that includes accessing large amounts of data sharing central repositories of queries and enterprise reports. It also allows you to implement tightly-controlled, distributed, or

client/server solutions. In addition, you can use QMF to publish reports to the World Wide Web that you can view with your favorite web browser.

1.2 QMF FMIDs

QMF consists of the following FMID:

HSQ7710

2.0 Program Materials

An IBM program is identified by a program number and a feature number. The program number for QMF is 5675-DB2.

Basic Machine-Readable Materials are materials that are supplied under the base license and feature code, and are required for the use of the product. Optional Machine-Readable Materials are orderable under separate feature codes, and are not required for the product to function.

The program announcement material describes the features supported by QMF. Ask your IBM representative for this information if you have not already received a copy.

2.1 Basic Machine-Readable Material

The distribution medium for this program is 9-track magnetic tape (written at 6250 BPI), 3480 cartridge, or 4mm cartridge. The tape or cartridge contains all the programs and data needed for installation. It is installed using SMP/E, and is in SMP/E RELFILE format. See 6.0, "Installation Instructions" on page 13 for more information about how to install the program.

Figure 1 describes the tape or cartridge.

<i>Figure 1. Basic Material: Program Tape</i>				
Medium	Feature Number	Physical Volume	External Label Identification	VOLSER
6250 Tape	5949	1	QMF for OS/390	SQ7710
3480 Tape	5950	1	QMF for OS/390	SQ7710
4 mm cartridge	6010	1	QMF for OS/390	SQ7710

2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for QMF.

2.3 Program Publications

The following sections identify the basic and optional publications for QMF.

2.3.1 Basic Program Publications

Figure 2 on page 4 identifies the basic unlicensed program publications for QMF. One copy of each of these publications is included when you order the basic materials for QMF. For additional copies, contact your IBM representative.

<i>Figure 2. Basic Material: Unlicensed Publications</i>	
Publication Title	Form Number
Installing and Managing QMF for OS/390	GC27-0719
QMF Messages and Codes	GC27-0717

2.3.2 Optional Program Publications

No optional publications are provided for QMF.

2.4 Program Source Materials

No program source materials or viewable program listings are provided for QMF.

2.5 Publications Useful During Installation

<i>Figure 3. Publications Useful During Installation</i>	
Publication Title	Form Number
<i>OS/390 SMP/E User's Guide</i>	SC28-1740
<i>OS/390 SMP/E Reference</i>	SC28-1806
<i>OS/390 SMP/E Messages and Codes</i>	SC28-1738

3.0 Program Support

This section describes the IBM support available for QMF.

3.1 Program Services

Contact your IBM representative for specific information about available program services.

3.2 Preventive Service Planning

Before installing QMF, you should review the current Preventive Service Planning (PSP) information. If you obtained QMF as part of a CBPDO, there is HOLDDATA and PSP information included on the CBPDO tape.

If you obtained QMF on a product tape, or if the CBPDO is more than two weeks old when you install it, you should contact the IBM Support Center or use S/390 SoftwareXcel to obtain the current "PSP Bucket".

PSP Buckets are identified by UPGRADEs, which specify product levels, and SUBSETs, which specify the FMIDs for a product level. The UPGRADE and SUBSET values for QMF are:

<i>Figure 4. PSP Upgrade and Subset ID</i>		
UPGRADE	SUBSET	Description
DB2710	HSQ7710	QMF Version 07

3.3 Statement of Support Procedures

Report any difficulties you have using this program to your IBM Support Center. If an APAR is required, the Support Center will provide the address to which any needed documentation can be sent.

Figure 5 identifies the component IDs (COMPID) for QMF.

<i>Figure 5. Component IDs</i>			
FMID	COMPID	Component Name	RETAIN Release
HSQ7710	566872101	QMF/390 BASE	710

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of QMF. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs integrated.

4.1 Program Level Information

No APARs have been incorporated into QMF.

4.2 Service Level Information

No PTFs against this release of QMF have been incorporated into the product tape.

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating QMF. The following terminology is used:

- *Driving system*: the system used to install the program.
- *Target system*: the system on which the program is installed.

In many cases, the same system can be used as both a driving system and a target system. However, you may want to set up a clone of your system to use as a target system by making a separate IPL-able copy of the running system. The clone should include copies of all system libraries that SMP/E updates, copies of the SMP/E CSI data sets that describe the system libraries, and your PARMLIB and PROCLIB.

Some cases where two systems should be used include the following:

- When installing a new level of a product that is already installed, the new product will delete the old one. By installing onto a separate target system, you can test the new product while still keeping the old one in production.
- When installing a product that shares libraries or load modules with other products, the installation can disrupt the other products. Installing onto a test system or clone will allow you to assess these impacts without disrupting your production system.

5.1 Driving System Requirements

This section describes the environment of the driving system required to install QMF.

5.1.1 Machine Requirements

The driving system can run in any hardware environment that supports the required software.

5.1.2 Programming Requirements

Figure 6. Driving System Software Requirements

Program Number	Product Name and Minimum VRM/Service Level
5647-A01	OS/390 Version 2 Release 7 or higher

5.2 Target System Requirements

This section describes the environment of the target system required to install and use QMF.

QMF installs in the DBS (P115) SREL.

5.2.1 Machine Requirements

5.2.2 Programming Requirements

5.2.2.1 Mandatory Requisites: A mandatory requisite is defined as a product that is required without exception; this product either **will not install** or **will not function** unless this requisite is met. This includes products that are specified as REQs or PREs.

Figure 7. Mandatory Requisites

Program Number	Product Name and Minimum VRM/Service Level
5647-A01	OS/390 Version 2 Release 7 or higher
5683-083	CICS/ESA Version 3 Release 3 or higher

Note: The CICS requisite is for CICS users only.

5.2.2.2 Functional Requisites: A functional requisite is defined as a product that is **not** required for the successful installation of this product or for the basic function of the product, but **is** needed at run time for a specific function of this product to work. This includes products that are specified as IF REQs.

Figure 8. Functional Requisites

Program Number	Product Name and Minimum VRM/Service Level	Function
5675-DB2	DB2 UDB for OS/390 Version 7 or higher	DB2

5.2.2.3 Toleration/Coexistence Requisites: A toleration/coexistence requisite is defined as a product which must be present on a sharing system. These systems can be other systems in a multisystem environment (not necessarily sysplex), a shared DASD environment (such as test and production), or systems that reuse the same DASD at different time intervals.

QMF has no toleration/coexistence requisites.

5.2.2.4 Incompatibility (Negative) Requisites: A negative requisite identifies products which must *not* be installed on the same system as this product.

QMF has no negative requisites.

5.2.3 DASD Storage Requirements

QMF libraries can reside on 3380 or 3390 DASD.

Figure 9 lists the total space required for each type of library.

Library Type	Total Space Required
Target	3785 3390 blocks
Distribution	4945 3390 blocks

Notes:

1. IBM recommends use of system determined block sizes for efficient DASD utilization for all non-RECFM U data sets. For RECFM U data sets, IBM recommends a block size of 32760, which is the most efficient from a performance and DASD utilization perspective.
2. Abbreviations used for the data set type are:
 - U** Unique data set, allocated by this product and used only by this product. In order to determine the correct storage needed for this data set, this table provides all required information; no other tables (or program directories) need to be referenced for the data set size.
 - S** Shared data set, allocated by this product and used by this product and others. In order to determine the correct storage needed for this data set, the storage size given in this table needs to be added to other tables (perhaps in other program directories). If the data set already exists, it must have enough free space to accommodate the storage size given in this table.
 - E** Existing shared data set, used by this product and others. This data set is NOT allocated by this product. In order to determine the correct storage needed for this data set, the storage size given in this table needs to be added to other tables (perhaps in other program directories). This existing data set must have enough free space to accommodate the storage size given in this table.

If you currently have a previous release of this product installed in these libraries, the installation of this release will delete the old one and reclaim the space used by the old release and any service that had been installed. You can determine whether or not these libraries have enough space by deleting the old release with a dummy function, compressing the libraries, and comparing the space requirements with the free space in the libraries.

For more information on the names and sizes of the required data sets, please refer to 6.1.6, "Allocate SMP/E Target and Distribution Libraries" on page 15.

3. All target and distribution libraries listed have the following attributes:

- The default dataset name may be changed
- The default block size of the dataset may be changed
- The dataset may be merged with another dataset that has equivalent characteristics
- The dataset may be either a PDS or a PDSE.

4. All target libraries listed have the following attributes:

- The dataset may be SMS managed
- It is not required for the dataset to be SMS managed
- The dataset may be in the LPA
- It is not required for the dataset to be in the LPA
- The dataset may be in the LNKLIST
- It is not required for the dataset to be APF authorized
- It is not required for the dataset to reside on the IPL volume
- The values in the "Member Type" column are not necessarily the actual SMP/E element types identified in the SMPMCS

The following figures describe the target and distribution libraries required to install QMF. The storage requirements of QMF must be added to the storage required by other programs having data in the same library.

Note: The data in these tables should be used when determining which libraries can be merged into common data sets. In addition, since some ALIAS names may not be unique, ensure that no naming conflicts will be introduced before merging libraries.

Figure 10. Storage Requirements for QMF Target Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SDSQLOAD	LMOD	any	U	PDS	U	0	207	30
SDSQSAPE	Sample	any	U	PDS	FB	80	214	30
SDSQDBRM	Macro	any	U	PDS	FB	80	11	10
SDSQPLBE	Panel	any	U	PDS	FB	80	13	15
SDSQCLTE	CLIST	any	U	PDS	FB	80	51	10
SDSQSLBE	Skeleton	any	U	PDS	FB	80	14	10
SDSQMLBE	Message	any	U	PDS	FB	80	14	10
SDSQEXCE	EXEC	any	U	PDS	FB	80	14	10
SDSQUSRE	Sample	any	U	PDS	FB	80	31	10

Figure 11. Storage Requirements for QMF Distribution Libraries

Library DDNAME	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
ADSQOBJ	U	PDS	U	0	329	150
ADSQMACE	U	PDS	FB	80	368	30
ADSQDBMD	U	PDS	FB	80	12	10
ADSQPMSE	U	PDS	FB	80	14	15

The following figures list data sets that are not used by SMP/E, but are required for QMF to execute.

Figure 12. Storage Requirements for QMF Non-SMP/E Data Sets

Data Set Name	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
DSQCHART	U	PDS	FB	400	3	10
DSQMAPE	U	PDS	FB	400	6	10
DSQPVARE	U	NONE	V	32756	90	-
DSQPNLE	U	VSAM	V	32756	135	-

5.3 FMIDs Deleted

Installing QMF may result in the deletion of other FMIDs. To see what FMIDs will be deleted, examine the ++VER statement in the product's SMPMCS.

If you do not wish to delete these FMIDs at this time, you must install QMF into separate SMP/E target and distribution zones.

Note: These FMIDs will not automatically be deleted from the Global Zone. Consult the SMP/E manuals for instructions on how to do this.

5.4 Special Considerations

QMF has no special considerations for the target system.

6.0 Installation Instructions

This chapter describes the installation method and the step-by-step procedures to install and to activate the functions of QMF.

Please note the following:

- If you want to install QMF into its own SMP/E environment, consult the SMP/E manuals for instructions on creating and initializing the SMP/CSI and the SMP/E control data sets.
- Sample jobs have been provided to help perform some or all of the installation tasks. The SMP/E jobs assume that all DDDEF entries required for SMP/E execution have been defined in the appropriate zones.
- The SMP/E dialogs may be used instead of the sample jobs to accomplish the SMP/E installation steps.

6.1 Installing QMF

6.1.1 SMP/E Considerations for Installing QMF

This release of QMF is installed using the SMP/E RECEIVE, APPLY, and ACCEPT commands. The SMP/E dialogs may be used to accomplish the SMP/E installation steps.

6.1.2 SMP/E Options Subentry Values

The recommended values for some SMP/E CSI subentries are shown in Figure 13. Use of values lower than these may result in failures in the installation process. DSSPACE is a subentry in the GLOBAL options entry. PEMAX is a subentry of the GENERAL entry in the GLOBAL options entry. Refer to the SMP/E manuals for instructions on updating the global zone.

SUB-ENTRY	Value	Comment
DSSPACE	(210,210,520)	3390 DASD tracks
PEMAX	SMP/E Default	IBM recommends using the SMP/E default for PEMAX.

6.1.3 SMP/E CALLLIBS Processing

QMF uses the CALLLIBS function provided in SMP/E to resolve external references during installation. When QMF is installed, ensure that DDDEFs exist for the following libraries:

- SDFHLOAD
- SDSQLOAD

Note: The DDDEFs above are used only to resolve the link-edit for QMF using CALLLIBS. These data sets are not updated during the installation of QMF.

6.1.4 Unload the Sample JCL from the Product Tape

The following sample installation jobs are provided on the distribution tape to help you install QMF:

<i>Figure 14. Sample Installation Jobs</i>			
Job Name	Job Type	Description	RELFILE
DSQ1EJRC	RECEIVE	Sample RECEIVE job	IBM.HSQ7710.F3
DSQ1EJAL	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HSQ7710.F3
DSQ1EDEF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HSQ7710.F3
DSQ1EJAP	APPLY	Sample APPLY job	IBM.HSQ7710.F3
DSQ1EJAC	ACCEPT	Sample ACCEPT job	IBM.HSQ7710.F3

You may copy the jobs from the tape by submitting the job below. Add a job card and modify the parameters in boldface to uppercase values to meet your site's requirements before submitting.

```
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//IN DD DSN=IBM.HSQ7710.F3,
// UNIT=tunit,VOL=SER=SQ7710,
// LABEL=(4,SL),DISP=(OLD,KEEP)
//OUT DD DSN=jcl-library-name,
// DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=dunit,
// DCB=*.STEP1.IN,SPACE=(8800,(15,10,5))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY INDD=IN,OUTDD=OUT
SELECT MEMBER=(DSQ1EJRC,DSQ1EJAL,DSQ1EDEF,DSQ1EJAP,DSQ1EJAC)
/*
```

where **tunit** is the unit value matching the product tape or cartridge, **jcl-library-name** is the name of the data set where the sample jobs will reside, **dasdvol** is the volume serial of the DASD device where the data set will reside, and **dunit** is the DASD unit type of the volume.

You can also access the sample installation jobs by performing an SMP/E RECEIVE for FMID HSQ7710 and then copying the jobs from data set **hlq.IBM.HSQ7710.F3** to a work data set for editing and submission. Note: "hlq" is the high-level qualifier specified in the DSPREFIX value in the SMPTLIB DDDEF or the OPTIONS entry of the global zone.

6.1.5 Perform SMP/E RECEIVE

Edit and submit sample job DSQ1EJRC to perform the SMP/E RECEIVE for QMF. Consult the instructions in the sample job for more information.

NOTE: If you obtained QMF as part of a CBPDO, you can use the RCVPDO job found in the CBPDO RIMLIB data set to RECEIVE the QMF FMIDs as well as any service, HOLDDATA, or preventive service planning (PSP) information included on the CBPDO tape. For more information, refer to the documentation included with the CBPDO.

Expected Return Codes and Messages: You will get a condition code of 0 if the job runs correctly.

6.1.6 Allocate SMP/E Target and Distribution Libraries

Edit and submit sample job DSQ1EJAL to allocate the SMP/E target and distribution libraries for QMF. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will get a condition code of 0 if the job runs correctly.

6.1.7 Create DDDEF Entries

Edit and submit sample job DSQ1EDEF to create DDDEF entries for the SMP/E target and distribution libraries for QMF. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will get a condition code of 0 if the job runs correctly.

6.1.8 Perform SMP/E APPLY

Edit and submit sample job DSQ1EJAP to perform an SMP/E APPLY CHECK for QMF. Consult the instructions in the sample job for more information.

To receive the full benefit of the SMP/E Causer SYSMOD Summary Report, do *not* bypass the following on the APPLY CHECK: PRE, ID, REQ, and IFREQ. This is because the SMP/E root cause analysis identifies the cause only of **ERRORS** and not of **WARNINGS** (SYSMODs that are bypassed are treated as warnings, not errors, by SMP/E).

Once you have taken any actions indicated by the APPLY CHECK, remove the CHECK operand and run the job again to perform the APPLY.

Note: The GROUPEXTEND operand indicates that SMP/E apply all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions.

Expected Return Codes and Messages from APPLY CHECK: You will get a condition code of 0 if the job runs correctly.

Expected Return Codes and Messages from APPLY: You will get a condition code of 4 if the job runs correctly.

Message **IEW2454W** issued during the APPLY run can be ignored. You will also receive messages like the following on the internal LINK-EDIT processing.

```
GIM23913W LINK-EDIT PROCESSING FOR SYSMOD HSQ7710 WAS  
SUCCESSFUL FOR MODULE DSQCABND IN LMOD DSQQMF IN THE SDSQLOAD  
LIBRARY. THE RETURN CODE WAS 04.
```

6.1.9 Perform SMP/E ACCEPT

Edit and submit sample job DSQ1EJAC to perform an SMP/E ACCEPT CHECK for QMF. Consult the instructions in the sample job for more information.

To receive the full benefit of the SMP/E Causer SYSMOD Summary Report, do *not* bypass the following on the ACCEPT CHECK: PRE, ID, REQ, and IFREQ. This is because the SMP/E root cause analysis identifies the cause only of **ERRORS** and not of **WARNINGS** (SYSMODs that are bypassed are treated as warnings, not errors, by SMP/E).

Before using SMP/E to load new distribution libraries, it is recommended that you set the ACCJCLIN indicator in the distribution zone. This will cause entries produced from JCLIN to be saved in the distribution zone whenever a SYSMOD containing inline JCLIN is ACCEPTed. For more information on the ACCJCLIN indicator, see the description of inline JCLIN in the SMP/E manuals.

Once you have taken any actions indicated by the ACCEPT CHECK, remove the CHECK operand and run the job again to perform the ACCEPT.

Note: The GROUPEXTEND operand indicates that SMP/E apply all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions.

Expected Return Codes and Messages ACCEPT CHECK: You will get a condition code of 0 if the job runs correctly.

Expected Return Codes and Messages ACCEPT: You will get a condition code of 0 if the job runs correctly.

If PTFs containing replacement modules are being ACCEPTed, SMP/E ACCEPT processing will linkedit/bind the modules into the distribution libraries. During this processing, the Linkage Editor or Binder may issue messages documenting unresolved external references, resulting in a return code of 4 from the ACCEPT step. These messages can be ignored, because the distribution libraries are not executable and the unresolved external references will not affect the executable system libraries.

6.2 Activating QMF

The publication *Installing and Managing QMF for OS/390, GC27-0719* contains the step-by-step procedures to customize and activate the functions of QMF.

Reader's Comments

Program Directory for Query Management Facility for OS/390 and z/OS Version 07.01.00.

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For each of the topics below please indicate your satisfaction level by circling your choice from the rating scale. If a statement does not apply, please circle N.

RATING SCALE						
very satisfied	<----->				very dissatisfied	not applicable
1	2	3	4	5	N	

	Satisfaction					
Ease of product installation	1	2	3	4	5	N
Contents of program directory	1	2	3	4	5	N
Installation Verification Programs	1	2	3	4	5	N
Time to install the product	1	2	3	4	5	N
Readability and organization of program directory tasks	1	2	3	4	5	N
Necessity of all installation tasks	1	2	3	4	5	N
Accuracy of the definition of the installation tasks	1	2	3	4	5	N
Technical level of the installation tasks	1	2	3	4	5	N
Ease of getting the system into production after installation	1	2	3	4	5	N

How did you order this product?

- CBPDO
- CustomPac
- ServerPac
- Independent
- Other

Is this the first time your organization has installed this product?

- Yes
- No

Were the people who did the installation experienced with the installation of MVS products?

- Yes



Program Number: 5675-DB2 5949
5950
6010

Printed in U.S.A.

G110-8222-00

