IBM

Program Directory for

Query Management Facility

for VSE/ESA

National Language Features

Version 07 Release 01, Modification Level 00

Program Number 5697-F42

for Use with
VSE/ESA

Document Date: September 2000

GI10-8332-00

┌─ **Note!** ───┐

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

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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 a **Query Management Facility for VSE/ESA National Language Features Version 07** (abbreviated to QMF NLF in this document). 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:

Before installing QMF NLF, read 3.1, "Preventive Service Planning" on page 7. This section tells you how to find any updates to the information and procedures in this program directory.

2.0 Program Materials

An IBM program is identified by a program number and a feature code. The program number for QMF NLF is 5697-F42.

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

The following sections identify:

   The basic and optional program materials available with this program

2.1 Basic Machine-Readable Material

The distribution medium for this program is as follows:

   One 3480 tape cartridge or
   One 4mm tape cartridge or
   One 9 track magnetic tape (written at 6250 BPI) or
   One 1/4" tape cartridge

The tape contains all the programs and data needed for installation. QMF NLF is installed using MSHP. See 6.0, "Installation Instructions" on page 11 for more information about how to install the program. Figure 1 describes the tape or cartridge. Figure 2 on page 4 describes the file content of the program tape or cartridge.

Figure 1 (Page 1 of 3). Basic Material: Program Tape - QMF NLF				
Feature Number	**Medium**	**Physical Volume**	**Tape Content**	**External Tape Label**
6145	3480 cart.	1	QMF for VSE V7 Brazilian Portuguese	QMF for VSE V7 (P)
6146	4mm cart.	1	QMF for VSE V7 Brazilian Portuguese	QMF for VSE V7 (P)
6147	6250 tape	1	QMF for VSE V7 Brazilian Portuguese	QMF for VSE V7 (P)
6144	1/4" cart.	1	QMF for VSE V7 Brazilian Portuguese	QMF for VSE V7 (P)
6212	3480 cart.	1	QMF for VSE V7 Canadian French	QMF for VSE V7 (C)
6213	4mm cart.	1	QMF for VSE V7 Canadian French	QMF for VSE V7 (C)
6214	6250 tape	1	QMF for VSE V7 Canadian French	QMF for VSE V7 (C)
6211	1/4" cart.	1	QMF for VSE V7 Canadian French	QMF for VSE V7 (C)
6100	3480 cart.	1	QMF for VSE V7 French	QMF for VSE V7 (F)
6101	4mm cart.	1	QMF for VSE V7 French	QMF for VSE V7 (F)
6102	6250 tape	1	QMF for VSE V7 French	QMF for VSE V7 (F)

Feature Number	Medium	Physical Volume	Tape Content	External Tape Label
			Figure 1 (Page 2 of 3). Basic Material: Program Tape - QMF NLF	
6099	1/4" cart.	1	QMF for VSE V7 French	QMF for VSE V7 (F)
6121	3480 cart.	1	QMF for VSE V7 German	QMF for VSE V7 (D)
6122	4mm cart.	1	QMF for VSE V7 German	QMF for VSE V7 (D)
6123	6250 tape	1	QMF for VSE V7 German	QMF for VSE V7 (D)
6120	1/4" cart.	1	QMF for VSE V7 German	QMF for VSE V7 (D)
6185	3480 cart.	1	QMF for VSE V7 Italian	QMF for VSE V7 (I)
6186	4mm cart.	1	QMF for VSE V7 Italian	QMF for VSE V7 (I)
6187	6250 tape	1	QMF for VSE V7 Italian	QMF for VSE V7 (I)
6184	1/4" cart.	1	QMF for VSE V7 Italian	QMF for VSE V7 (I)
6197	3480 cart.	1	QMF for VSE V7 Japanese	QMF for VSE V7 (K)
6198	4mm cart.	1	QMF for VSE V7 Japanese	QMF for VSE V7 (K)
6199	6250 tape	1	QMF for VSE V7 Japanese	QMF for VSE V7 (K)
6196	1/4" cart.	1	QMF for VSE V7 Japanese	QMF for VSE V7 (K)
6129	3480 cart.	1	QMF for VSE V7 Korean	QMF for VSE V7 (H)
6130	4mm cart.	1	QMF for VSE V7 Korean	QMF for VSE V7 (H)
6131	6250 tape	1	QMF for VSE V7 Korean	QMF for VSE V7 (H)
6128	1/4" cart.	1	QMF for VSE V7 Korean	QMF for VSE V7 (H)
6113	3480 cart.	1	QMF for VSE V7 Simplified Chinese	QMF for VSE V7 (R)
6114	4mm cart.	1	QMF for VSE V7 Simplified Chinese	QMF for VSE V7 (R)
6115	6250 tape	1	QMF for VSE V7 Simplified Chinese	QMF for VSE V7 (R)
6112	1/4" cart.	1	QMF for VSE V7 Simplified Chinese	QMF for VSE V7 (R)
6137	3480 cart.	1	QMF for VSE V7 Spanish	QMF for VSE V7 (S)
6138	4mm cart.	1	QMF for VSE V7 Spanish	QMF for VSE V7 (S)
6139	6250 tape	1	QMF for VSE V7 Spanish	QMF for VSE V7 (S)
6136	1/4" cart.	1	QMF for VSE V7 Spanish	QMF for VSE V7 (S)
6169	3480 cart.	1	QMF for VSE V7 Swiss French	QMF for VSE V7 (Y)
6170	4mm cart.	1	QMF for VSE V7 Swiss French	QMF for VSE V7 (Y)
6171	6250 tape	1	QMF for VSE V7 Swiss French	QMF for VSE V7 (Y)
6168	1/4" cart.	1	QMF for VSE V7 Swiss French	QMF for VSE V7 (Y)
6177	3480 cart.	1	QMF for VSE V7 Swiss German	QMF for VSE V7 (Z)
6178	4mm cart.	1	QMF for VSE V7 Swiss German	QMF for VSE V7 (Z)

Figure 1 (Page 3 of 3). Basic Material: Program Tape - QMF NLF				
Feature Number	**Medium**	**Physical Volume**	**Tape Content**	**External Tape Label**
6179	6250 tape	1	QMF for VSE V7 Swiss German	QMF for VSE V7 (Z)
6176	1/4" cart.	1	QMF for VSE V7 Swiss German	QMF for VSE V7 (Z)
6193	3480 cart.	1	QMF for VSE V7 Uppercase English	QMF for VSE V7 (U)
6194	4mm cart.	1	QMF for VSE V7 Uppercase English	QMF for VSE V7 (U)
6195	6250 tape	1	QMF for VSE V7 Uppercase English	QMF for VSE V7 (U)
6192	1/4" cart.	1	QMF for VSE V7 Uppercase English	QMF for VSE V7 (U)

Figure 2. Program Tape: File Content

VOLSER	File	Name
N/A	1	Header File
N/A	2	QMF/VSE History File
N/A	3	QMF/VSE Product Library
N/A	4	Null File (Tape Mark)
N/A	5	EOB (End of Backup Information)
N/A	6	Null File (Tape Mark)

2.2 Optional Machine-Readable Material

There are no optional machine-readable materials for QMF NLF.

2.3 Program Publications

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

2.3.1 Basic Program Publications

Figure 3 identifies the basic program publications for QMF NLF. One copy of each of these publications is included when you order the basic materials for QMF NLF. For additional copies, contact your IBM representative.

If a country provides a translated publication, the customer will receive the translated publication instead. Refer to Figure 4 on page 5 for a list of the countries that provide translated publications and the form number for each translated publication.

Figure 3. Basic Material: Unlicensed Publications	
Publication Title	**Form Number**
Installing and Managing QMF for VSE	GC27-0721
QMF Messages and Codes	GC27-0717

Figure 4. Translated Program Publications		
National Language	**Publication Title**	**Form Number**
Japanese	QMF Messages and Codes	GC88-8621-00
Korean	QMF Messages and Codes	GA30-1050-00

2.3.2 Optional Program Publications

The following are the optional publications that can be ordered.

If a country provides a translated optional publication, the customer can order the translated publication instead. Refer to Figure 6 for a list of the countries that provide translated publications and the form number for each translated publication.

Figure 5. Optional Material: Unlicensed Publications	
Publication Title	**Form Number**
Introducing QMF	GC27-0714
QMF Reference	SC27-0715
Using QMF	SC27-0716
Developing QMF Applications	SC27-0718

Figure 6 (Page 1 of 2). Translated Optional Publications		
National Language	**Publication Title**	**Form Number**
Brazilian Portuguese	Introducing QMF	S517-6997-00
Brazilian Portuguese	QMF Reference	S517-6998-00
Brazilian Portuguese	Using QMF	S517-6999-00
French	Introducing QMF	GC11-1685-00
French	Using QMF	SC11-1687-00
German	Introducing QMF	GC12-2858-00
German	QMF Reference	SC12-2849-00

Figure 6 (Page 2 of 2). Translated Optional Publications		
National Language	**Publication Title**	**Form Number**
German	Using QMF	SC12-2850-00
Italian	Introducing QMF	GC13-2904-00
Italian	QMF Reference	SC13-2905-00
Italian	Using QMF	SC13-2906-00
Japanese	Introducing QMF	GC88-8618-00
Japanese	QMF Reference	SC88-8619-00
Japanese	Using QMF	SC88-8620-00
Japanese	Developing QMF Applications	SC88-8622-00
Korean	Introducing QMF	GA30-1047-00
Korean	QMF Reference	SA30-1048-00
Korean	Using QMF	SA30-1049-00
Korean	Developing QMF Applications	SA30-1051-00
Spanish	Introducing QMF	GC10-3530-00
Spanish	QMF Reference	SC10-3531-00
Spanish	Using QMF	SC10-3532-00

2.4 Program Source Materials

Microfiche program listings are not provided with QMF NLF. Customers with access to View Program Listings (VPL), such as through SoftwareXcel Extended, can access program listings formerly provided through microfiche.

Those customers without access to VPL can contact their IBM representative.

The VPL facility provides online viewing of program listings that are available to customers.

2.5 Publications Useful During Installation

Please refer to *Installing and Managing QMF for VSE*, GC27-0721, for a list of related publicaitons.

3.0 Program Support

This section describes the IBM support available for QMF NLF.

3.1 Preventive Service Planning

Before installing QMF NLF, check with your IBM Support Center or use either Information/Access or SoftwareXcel Extended to see whether there is additional Preventive Service Planning (PSP) information that you should know. To obtain this information, specify the following UPGRADE and SUBSET values:

Figure 7. PSP UPGRADE and SUBSET ID			
UPGRADE	**SUBSET**	**RETAIN Release**	**National Language**
DB2VSEVM710	QMFVSE	1NZ	Brazilian Portuguese
DB2VSEVM710	QMFVSE	1OL	Canadian French
DB2VSEVM710	QMFVSE	1NU	French
DB2VSEVM710	QMFVSE	1NV	German
DB2VSEVM710	QMFVSE	1NW	Italian
DB2VSEVM710	QMFVSE	1NX	Japanese
DB2VSEVM710	QMFVSE	1NY	Korean
DB2VSEVM710	QMFVSE	1NT	Simplified Chinese
DB2VSEVM710	QMFVSE	1O0	Spanish
DB2VSEVM710	QMFVSE	1O1	Swiss French
DB2VSEVM710	QMFVSE	1O2	Swiss German
DB2VSEVM710	QMFVSE	1NS	Uppercase English

If you have received QMF NLF only from IBM Software Distribution, then before installing QMF NLF, you should also check with your IBM Support Center or use either Information/Access or SoftwareXcel Extended to see if there is additional PSP information that you should know.

3.2 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 8 identifies the component IDs (COMPID) for QMF NLF.

			Product		
COMP ID	Component Name	CLC	Code	Product ID	National Language
564806112	QMF/VSE BRAZ PORT	1NZ	F42	F421NZ	Brazilian Portuguese
564806103	QMF/VSE CAN FRENCH	1OL	F42	F421OL	Canadian French
564806107	QMF/VSE FRENCH	1NU	F42	F421NU	French
564806108	QMF/VSE GERMAN	1NV	F42	F421NV	German
564806109	QMF/VSE ITALIAN	1NW	F42	F421NW	Italian
564806110	QMF/VSE JAPANESE	1NX	F42	F421NX	Japanese
564806111	QMF/VSE KOREAN	1NY	F42	F421NY	Korean
564806104	QMF/VSE SIMP CHINESE	1NT	F42	F421NT	French
564806113	QMF/VSE SPANISH	1O0	F42	F421O0	Spanish
564806115	QMF/VSE SWISS FRENCH	1O1	F42	F421O1	Swiss French
564806116	QMF/VSE SWISS GERMAN	1O2	F42	F421O2	Swiss German
564806102	QMF/VSE U/C ENGLISH	1NS	F42	F421NS	Uppercase English

Figure 8. Component IDs

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of QMF NLF. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs integrated. Information about the cumulative service tape is also provided.

4.1 Program Level Information

QMF NLF Version 07 has incorporated all closed APARS from previous versions/releases which were closed prior to August 4, 2000.

4.2 Service Level Information

Check the DB2VSEVM710 PSP bucket for any additional PTFs that should be installed or any additional installation information.

4.3 Cumulative Service Tape

There is no cumulative service tape for QMF NLF.

5.0 Installation Requirements and Considerations

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

5.1 Operating System Requirements

QMF NLF operates under the VSE/ESA operating system. You can install QMF NLF on any processor supported by VSE/ESA 2.2 or higher.

5.2 Hardware Requirements

The QMF NLF panels and messages contain National Language characters. Use of the feature requires terminals using the national language codepage, national language keyboards and appropriate machine logic.

One tape drive supported by VSE/ESA is required for installation.

5.3 Programming Requirements

You must install the QMF for VSE Version 07 base product prior to installing a QMF NLF. All product requisites of QMF for VSE Version 07 base are also product requisites of QMF NLF. For details, see the list of base product requisites in the QMF for VSE Version 07 base product program directory.

5.4 DASD Storage Requirements

You need the block sizes on the tape scan report to determine library storage requirements. At a minimum, the target library must have free the number of library blocks shown on the tape scan report for the QMF base product. A library block is equivalent to 1KB. For example, 11 library blocks are equal to 11,264 bytes.

You might want to add some extra space, perhaps 10 to 15%, for future enhancements and service upgrades. If you are installing an NLF, also add the library blocks for the base version to the number of library blocks for the particular NLF. Write down the sum of all these numbers; you'll need it when you define your library.

5.4.1 Special Considerations

There are no special considerations for QMF NLF.

6.0 Installation Instructions

6.1 Installing QMF NLF

This section describes how to install the QMF product or QMF NLF feature from your distribution tape provided by IBM. The QMF product tape is distributed in the Librarian format of VSE/advanced Functions Version 2. This allows you to use the VSE "Install Programs - V2 Format" dialogs to install the QMF product tape.

The QMF install procedure is designed to install QMF into the VSE sublibrary "PRD2.PROD".

Attention: If you have a previous version or release of QMF in the PRD2.PROD sublibrary, it will be replaced by the new version or release of QMF being installed.

If you change the VSE sublibrary, you also have to make extensive changes to the tailoring procedures provided by QMF. Refer to the *Installing and Managing QMF for VSE* for details. It is recommended that you use the default sublibary PRD2.PROD.

The QMF product is distributed as an optional product of VSE or can be ordered as a standalone product. How you install QMF from tape depends on how QMF was distributed.

6.1.1 Installing QMF as an Optional Product

If you receive QMF as an optional product on the VSE product tape, you need to install the QMF product using the "Installing Additional VSE Programs in V2 Format" section in your "VSE Installation Guide" that came with your VSE system.

6.1.2 Installing QMF from the Standalone Product Tape using VSE V2 or higher

If you ordered the QMF product on a standalone tape, then follow the procedures provided in this chapter. The VSE "Install Programs - V2 Format" dialog provided by the VSE Interactive Interface is used to install the QMF tape.

The VSE dialog creates job streams that use the VSE Job Manager to manage the installation. The dialog consists of two separate tasks:

1. **Prepare for Installation** This dialog scans the distribution tape and provides information that is used by the next step and creates a job that is used to provide the amount of library blocks needed to load the QMF product or feature.

2. **Install Program from Tape** This dialog shows the tape label of the QMF product or feature being installed. Use this dialog to choose the product ID and the sublibrary that will receive the QMF product or feature.

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When you use the dialogs for the first time or when you use a new tape, perform both tasks 1 and 2. If you have used the dialog before with the same tape and have a program list saved, you do not need to perform the Prepare for Installation step.

6.1.3 Prepare for Installation

This procedure has two purposes:

It creates list output used to check library block sizes. You'll need the block size to calculate disk storage requirements.

It generates input for the Install panel which is used to generate the QMF Installation job.

To Scan the Tape do the following:

1. Log on to the VSE/ICCF system as the administrator using the VSE/Interactive Interface. If you are unfamiliar with the Interactive Interface, you can read about the basic functions in *IBM VSE/ESA Administration*.

2. Mount the QMF installation tape on an available tape drive. IBM distributes the QMF installation tape on magnetic tape (reel or cartridge) .

3. Select Installation to begin the installation process from the VSE Function Selection panel.

4. Select 1 Install Programs - V2 Format from the Installation panel.

5. Select 1 Prepare for Installation

6. Enter the address of the tape drive from step 2.

7. Change Job Destination to 3 on the Job Disposition panel to submit the job and FILE it in the library. Accept all of the other default fields as shown.

8. Switch to the system console. A message similar to the following is displayed:

```
 1 BG
 2 BG            PREPARE ADDITIONAL PROGRAM INSTALLATION
 3 BG            -  SCAN PROGRAM TAPE
 4 BG
 5 BG     IESI  91I PLEASE MOUNT TAPE LABELLED "VSE OPTIONAL TAPE NUMBER 1"
 6 BG-    IESI  92A MOUNT ON TAPE DRIVE cuu. WHEN READY, REPLY "END/ENTER"
```

9. Enter 0 to reply to this verification message.

10. Retrieve Information about the QMF Tape.

QMF provides the latest storage estimates in table format on the tape. The following procedure describes how to retrieve this data from the list output and how to calculate your library space.

    a. Return to the main VSE/ESA Function Selection panel.

    b. Select Operations from the VSE/ESA Function Selection panel.

    c. Select 2 Manage Batch Queues from the Operations panel.

    d. Accept the default option of 1 List Queue on the Manage Batch Queues panel by pressing Enter.

e. Select the INSPRE job by placing a 1 next to the job name on the List Queue panel.

The pre-installation tape scan report is displayed. This list output report shows all of the products and features that are on your tape. Included in the display are the library block size for the QMF base product and any National Language Features (NLFs) you ordered.

You can identify the base and NLFs by the tapefile ID. The tapefile ID for the base has the product name and version separated by periods. The NLFs replace one of the periods with the NLID. Expect to see one or more of these tapefile IDs on the tape. Table 4 shows the tapefile IDs and their corresponding languages.

Figure 9. Tapefile IDs for QMF National Language Versions

Tapefile ID	Language
QMF/VSE....7.1.0	Base (English)
QMF/VSE.P..7.1.0	Brazilian Portuguese
QMF/VSE.C..7.1.0	Canadian French
QMF/VSE.F..7.1.0	French
QMF/VSE.D..7.1.0	German
QMF/VSE.I..7.1.0	Italian
QMF/VSE.K..7.1.0	Japanese
QMF/VSE.H..7.1.0	Korean
QMF/VSE.R..7.1.0	Simplified Chinese
QMF/VSE.S..7.1.0	Spanish
QMF/VSE.Y..7.1.0	Swiss French
QMF/VSE.Z..7.1.0	Swiss German
QMF/VSE.U..7.1.0	Uppercase English

11. Calculating Your Library Storage Needs

You need the block sizes on the tape scan report to determine library storage requirements. At a minimum, the target library must have free the number of library blocks shown on the tape scan report for the QMF base product. A library block is equivalent to 1KB. For example, 11 library blocks are equal to 11,264 bytes.

You might want to add some extra space, perhaps 10 to 15%, for future enhancements and service upgrades. If you are installing an NLF, also add the library blocks for the base version to the number of library blocks for the particular NLF. Write down the sum of all these numbers; you'll need it when you define your library.

6.1.4 Install Program from Tape

Now you are ready to install QMF from the tape. To begin, return to the VSE/ESA Function Selection panel.

1. Select Installation from the Function Selection panel.

2. Select 1 Install Programs - V2 Format from the Installation panel.

3. Select 2 Install Product(s) from Tape from the Install Programs V2 Format panel.

4. Type 1 next to the base product or National Language Feature (NLF) component that you are installing. The component is shown in tapefile ID format. These tapefile ID formats are shown in Figure 9 on page 13. The QMF base product and any NLFs must be installed in the same sublibrary. If you did not use the default library PRD2.PROD, type the name of your library and sublibrary on this screen.

5. Press PF5 to process.

6. Type 1 to save the product list on the Install Product(s) from Tape panel.

7. Type the tape address again and press Enter on the VSE/ESA Install Product(s) Tape Specification panel.

8. Change Job Destination to 3 and press Enter on the Job Disposition panel to submit the job and to file it in the library. Accept all of the other default fields shown on the panel.

9. Switch to the system console. You'll see a message similar to:

```
1 BG
2 BG             THIS IS PROGRAM INSTALL JOB NO. n
3 BG             THIS JOB INSTALLS QMF for VSE....7.1.  FROM TAPE NO. n
4 BG
5 BG
6 BG-    // PAUSE MOUNT TAPE NO. n FOR "INSTALL PROGRAMS' ON ADDRESS cuu
```

Reply to this verification message by entering a 0. It takes a few minutes to restore from the tape. The QMF standalone tape is shipped in non-stacked V2 format. You can expect return code 4 from the verification job:

```
IESI  83I TAPE FORMAT IS NOT V2-STACKED
EOJ DTR231   MAX.RETURN CODE=   4
```

10. Acceptable return codes from the QMF installation are 0 and 4. If you receive anything other than a return code of 0 or 4:

   a. Check the list output for error conditions.

   b. See the VSE/ESA Messages and Codes manual for corrective action.

   c. Correct the error.

   d. Rerun the job.

   e. Recheck the return code.

6.2 Activating QMF NLF

Now that you have successfully installed QMF NLF from tape, refer to the *Installing and Managing QMF for VSE* for instructions on the remaining jobs to run and how to activate QMF.

Reader's Comments

Program Directory for Query Management Facility National Language Feature Version 07 Release 01, Modification Level 00

You may use this form to comment about this document, its organization, or subject matter with the understanding that IBM may use or distribute whatever information you supply in any way it believes appropriate without incurring any obligation to you.

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                          very        not
│ satisfied  <===================> dissatisfied  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

Did you order this product as an independent product or as part of a package?

__ Independent
__ Package

If this product was ordered as part of a package, what type of package was ordered?

__ CustomPac

    __ FunctionPac
    __ SystemPac

__ System Delivery Offering (SDO)

__ Other - Please specify type: . . . .

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 these products?

___   Yes
___   No

If yes, how many years? __

If you have any comments to make about your ratings above, or any other aspect of the product installation, please list them below:

_____

_____

_____

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_____

_____

_____

_____

_____

Please provide the following contact information:

_____
Name and Job Title

_____
Organization

_____

_____
Address

_____
Telephone

Thank you for your participation.

Please send the completed form to (or give to your IBM representative who will forward it to the Query Management Facility National Language Feature Development group):

IBM Corporation
P. O. Box 49023
San Jose, CA 95161-9023
Attention: QMF Department, J49

IBM

Program Number: 5697-F42   6092
                            6093
                            6094
                            6091

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