

# QMF/SQL for End Users

CDT641

The concepts of DB2 are briefly presented and discussed. The Structured Query Language (SQL) is presented as the means to access DB2 data. Several guided, hands-on, practice sessions give each attendee an opportunity to use QMF to build “custom:” reports from DB2 data using the extensive powers of the QMF FORMs panels. Use several other QMF facilities such as Help, Retrieve/”?”. Save/Display, Export/Import, Prompted and SQL Query modes, PROCs.

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## Audience

- End-Users and Information Technology personnel who need use the Query Management Facility (QMF) to build reports from DB2 data.

## Prerequisites

- At least six months of TSO/ISPF experience is recommended.
- No previous database experience is needed.

## Course Length

- Three days

## Teaching Methods

- Lecture with examples
- Supplemental written exercises

## Learning Objectives

- Explain DB2 concepts, terminology and components
- SELECT rows of data from DB2 tables using the WHERE clause to retrieve specific rows
- Format QMF Reports by modifying the QMF FORM
- Use several QMF Commands – LIST, RUN, SAVE/DISPLAY, EXPORT/IMPORT, SHOW
- Build Queries with the PROMPTED MODE
- JOIN tables together to get information from each
- Use the SQL SubSelect feature of SQL
- Build QMF Reports “beyond the basics” using FORM.MAIN, FORM.PAGE, FORM.COLUMNS, FORM.FINAL, FORM.BREAK1-6, and the (form) LAYOUT command
- Build QMF Reports using “additional FORM features” such as FORM.OPTIONS, FORM.DETAIL, FORM.CALC, FORM.COND
- Build QMF PROCedures to Run a series of QMF commands allowing for user input of Data and SQL as VARIABLES
- Use the QMF TABLE EDIT facility to SEARCH through a table and to make CHANGES to a table
- Build SQL SELECT, INSERT and UPDATE statements using the QMF DRAW command

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## Course Outline

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### Day 1

- DB2 Concepts and Terminology
- The SELECT Statement
- QMF Basics
- Hands-on Lab - QMF Report Formatting 1 – SELECT and QMF Basics
- QMF PROMPTED Query - Introduction
- Join and SubSelect
- QMF PROMOTED Join 1
- QMF PROMOTED Join 2
- Hands-on Lab - QMF Report Formatting 1 – Join and SubSelect – SQL and/or PROMPTED

### Day 2

- QMF Report Formatting 1
- Hands-on Lab - QMF Report Formatting 1 – Basic Capabilities
- QMF Report Formatting 2
- QMF Forms Show
- QMF Export Import
- QMF Form Detail
- Hands-on Lab - QMF Report Formatting 2 – FORM Detail

### Day 3

- QMF PROCs – Multiple QMF Commands
- Hands-on Lab - QMF Report Formatting 1 – PROCs Multiple QMF Commands
- QMF PROCs – VARIABLES as Data and as SQL components
- Hands-on Lab - QMF Report Formatting 2 – PROCs with VARIABLES
- QMF TABLE EDITOR SEARCH
- QMF TABLE EDITOR CHANGE
- Hands-on Lab - QMF Table Searches and Changes
- QMF DRAW