

DB2 for z/OS Application Programming

Duration: 3 days

Course Description: First, the concepts of DB2 are presented and discussed. The Structured Query Language (SQL) is presented as the means to access DB2 data (and to create and secure DB2 components). Several guided, hands-on, practice sessions give each attendee an opportunity to use SQL to access data. QMF and/or SPUFI are used to execute SQL statements. Referential Integrity concepts and implementation are covered. DB2 (SQL) programming concepts are presented and discussed in detail. A "shell" program is modified to SELECT a single row, FETCH multiple rows, INSERT, UPDATE, and DELETE row(s), use Referential Integrity, and use column functions and grouping.

Audience: Experienced Data Processing personnel who need use SQL to design and develop programs to access DB2 data.

Prerequisites: At least six months of TSO/ISPF and COBOL programming experience is recommended. No previous database experience is needed.

Topics:

MODULE 1:

- DB2 Application Programming
- SQL Programming I - Overview
- SQL Programming II - Data and Procedure Division Changes
- Hands-on Lab - SELECT a single row into a program
- SQL Programming III - SELECTing Multiple Rows
- Hands-on Lab - SELECT more than one row - the CURSOR

MODULE 2:

- DB2 Application Programming (Continued)
- Concurrency Control - Locking
- SQL Programming IV - INSERT, UPDATE, DELETE
- Hands-on Lab - updating and Referential Integrity

MODULE 3:

- DB2 Application Programming (Continued)
- Hands-on Lab - Updating and Referential Integrity

MODULE 4:

- Additional Topics
- SQL Programming V - Other Programming Considerations
- DB2 Performance Introduction
- Hands-on Lab - Analyze SQL