



DB1010: DB2 for z/OS SQL & Application Programming

Course ID#: 0370-222-DB-W

35 Hrs

Course Content

Course Description:

DB2 SQL and Application Programming is a 5 day course targeting the needs of programmers and developers writing applications that access data stored in the DB2 environment.

The presentation is an integrated mixture of lecture and workshop activities that introduce and reinforce the basic techniques and approaches to relational database technology as implemented in DB2. Topics covered include structure and manipulation of DB2 data, operational considerations in both on-line and batch environments; integrity; embedded programming techniques and preparation; and an introduction to performance analysis.

The workshop activities follow the classroom material and are designed for both topic reinforcement and practice. Programming topics are supported by workshops in both the on-line and batch environment, this includes precompiling, compiling, linking, and the various options of the DB2 BIND.

This course is a combination of DB1000 DB2 SQL for Everyone and DB1001 DB2 for z/OS Embedded SQL Programming

Audience:

Programmers, application developers and computer analysts who are exposed to, or are required to perform the activities associated with application development and implementation in a DB2 environment.

Prerequisites:

Basic programming skills in the COBOL environment and familiarity with the z/OS environment and TSO/ISPF.

Objectives:

- Describe the overall purpose of, and the approaches to manipulating data in a database management system.
- Describe the major objects used by DB2 for data manipulation.
- Translate and code business problems in Structured Query Language.
- State the internal approaches utilized by DB2 for accessing data.
- Describe the major objects used by DB2 for data manipulation.
- Embed SQL in COBOL programs.
- Prepare COBOL programs containing embedded SQL statements for execution in the z/OS batch environment.



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- Process multi-row tables with DB2 cursors.
- State the internal approaches utilized by DB2 for accessing data.

Topics:

Relational Database Concepts

Basic Data Manipulation

Intermediate Data Manipulation

Built-in Functions

Aggregation

Joins

Data Modification

Complex Joins

SQL Subqueries

Set Operations

DB2 on the z/OS Platform

Introduction to Embedded SQL

Program Preparation

Cursors

Performance