

Duration: 2 days

Course Number: ISI-DB2-18

Description

This class teaches students the concepts, skills, and techniques required to write SQL to access DB2 data in an OS/400 environment. The concepts of DB2 are presented, and Structured Query Language (SQL) is taught as the means to create, access, and secure DB2 data. The concept of referential integrity concepts and implementation are covered. Upon successful completion of this class, students will be able to:

- Explain DB2 concepts, terminology and components.
- Discuss the concept of primary keys (PK) and foreign keys (FK).
- Select rows of data from DB2 tables.
- Use the Command Editor to execute SQL statements.
- Use the WHERE clause to select specific rows of a DB2 table.
- Build queries using the ORDER BY, GROUP BY, HAVING clauses.
- Join tables together to retrieve information from the tables.
- Create tables, indexes, and views.
- Change table data using the INSERT, UPDATE, and DELETE statements.

A series of written exercises and workshops are used to reinforce the classroom education.

Audience

Experienced Data Processing personnel who need use SQL to access DB2 data in an OS/400 environment.

Prerequisites

- At least six months of OS/400 experience.
- No previous database experience is required.

Course Agenda

Day 1

Introduction to DB2

- Course Introduction
- DB2 Concepts, and Terminology

Structured Query Language (SQL)

- The SELECT Statement
 - Hands-on Lab: SELECT
- The Command Editor
- SQL Special Features
 - Hands-on Lab: SELECT / Special Features
- SQL 3 - ORDER BY, GROUP BY, HAVING
 - Hands-on Lab: ORDER BY, GROUP BY, HAVING

Day 2

Structured Query Language (SQL)

- Join, Sub-select, UNION
 - Hands-on Lab: Join, Sub-select, UNION
- Data Definition Language
- INSERT, UPDATE, DELETE
 - Hands-on Lab: Creating DB2 Components - INSERT, UPDATE, DELETE
- Data Control Language