

Duration: 3 days

Course Number: ISI-DB2-12

Description

This hands-on workshop presents several advanced topics for application developers. SQL statements will be used to create objects for application design and development. Design issues of referential Integrity, table check constraints, user-defined data types, functions, triggers and large objects will be reviewed. Advanced techniques for using SQL in programs and stored procedures will be applied in workshops. Basic UDB administration functions will be reviewed and some DB2 utilities will be used. Program design issues will be considered which effect concurrency, integrity and performance.

Upon successful completion of this class, students will be able to:

- Create relational objects for application development.
- Use advanced SQL queries to access and manipulate data on DB2 tables.
- Review and use different methods of improving performance.
- Discuss how DB2 locking strategy improve concurrency and maintain integrity.
- Discuss and code stored procedures.
- Use IMPORT, EXPORT and LOAD utilities to manipulate data.
- Understand the basic security features of DB2.

A series of written and lab exercises will be used to reinforce the classroom education.

Audience

Application programmers and designers.

Prerequisites

- Basic knowledge of the Windows operating system.
- **DB2 UDB SQL and Application Programming**, or equivalent experience.

Course Agenda

Day 1

Course Introduction

- Workshop 0

SQL queries

- Workshop 1

Advanced SQL

- Workshop 2

Day 2

Performance for SQL and Applications

Data Access and EXPLAIN

- Workshop 3

Creating Objects

- Workshop 4

TRIGGERS, UDT and UDF

- Workshop 5

Day 3

DB2 Stored Procedures

DB2 Program Preparation

- Workshop 6

DB2 Utilities

IMPORT/EXPORT/LOAD Utilities

- Workshop 7