

Duration: 3 days

Course Number: ISI-DB2-15

Description

This course is designed to review the concepts and components of DB2 UDB for Windows. DB2 commands and SQL will be used to focus on DB2 administration activities. The relationships between object components will be presented along with communication and security aspects. Design issues of referential Integrity, table check constraints, user-defined data types and functions, triggers and large objects will be reviewed. Program design issues will be considered which effect concurrency, integrity and performance. DB2 administration functions and utilities will be reviewed and applied in workshops.

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

- Explain DB2 UDB for Windows concepts and facilities.
- List and describe the components of DB2 UDB for Windows.
- Administer a DB2 UDB database system using commands and GUI tools.
- Create Instances, Databases, Tablespaces and Tables to support application development and user data access.
- Discuss design issues such as referential Integrity, table check constraints, user defined data types and functions, and triggers.
- Use IMPORT, EXPORT and LOAD utilities to manipulate data.
- Perform database and tablespace recovery.
- Explain DB2 security.
- List performance improvement techniques for supporting applications.
- Manage System Managed Storage (SMS) and Database Manage Storage (DMS) databases and understand data placement principles.

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

Audience

System administrators, database administrators, and technical personnel who are involved with planning, implementing, and maintaining the DB2 UDB for Windows environment.

Prerequisites

- Six months of Windows experience is required.
- Six months of SQL experience is highly recommended.
- An understanding of basic relational database concepts and objects such as tables, indexes, views, and joins.

Course Agenda

Day 1

- The DB2 Family
- Installing and Configuring DB2
- Configuring a DB2 Instance
 - Hands-on Workshop: Instance
- Creating Databases and Tablespaces
 - Hands-on Workshop: Database / Tablespace
- Creating Tables and Other Objects
 - Hands-on Workshop: Tables

Day 2

- DB2 Privileges
 - Hands-on Workshop: Privileges
- IMPORT / EXPORT / LOAD Utilities
 - Hands-on Workshop – Import / Export / Load

Day 3

- Database Recovery
 - Hands-on Workshop: Database Recovery
- Tablespace Recovery
 - Hands-on Workshop: Tablespace Recovery
- Performance
 - Hands-on Workshop: Performance