

**Duration:** 3 days

**Course Number:** ISI-DB2-07

### **Description**

This course presents a thorough discussion of administration topics on DB2 for OS/390. The creation and management of databases, storage groups, tablespaces and tables is presented. In addition, database utilities for loading, reorganizing and collecting statistics are fully explored. Security and recovery are also covered. Performance considerations are fully explored. Distributing data and accessing distributed data are presented in this course. Upon successful completion of this class, students will be able to:

- Explain DB2 UDB concepts and facilities.
- List and describe the components of DB2 UDB.
- Create Databases, Tablespaces and Tables to support application development and user data access.
- Perform database and tablespace recovery.
- Run LOAD, UNLOAD, and CHECK DATA utilities.
- Discuss the RUNSTATS utility's capabilities.
- Implement DB2's Referential Integrity, Check Constraints, User Defined Distinct Types and User Defined Functions, and Triggers.
- Discuss DB2 Security and Locking / Serialization considerations.
- Discuss DB2 Performance considerations.
- Discuss differences implemented in DB2 UDB Version 7.

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 OS/390 environment.

### **Prerequisites**

- Six months of OS/390 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 is highly recommended.

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**Course Agenda**

**Day 1**

- DB2 Concepts and Terminology
- Creating Databases and Tablespaces
  - Hands-on Workshop: Database / Tablespace
- Creating Tables and Other Objects
  - Hands-on Workshop: Tables, Referential Integrity, Check Constraints, UDT, UDF

**Day 2**

- Security and Locking
- DB2 Utilities I – LOAD, CHECK DATA, RUNSTATS
  - Hands-on Workshop
- DB2 Utilities II – COPY, REORG, UNLOAD
  - Hands-on Workshop
- Tablespace Recovery - RECOVERY
  - Hands-on Workshop: Tablespace Recovery

**Day 3**

- Programming and Performance
  - Hands-on Workshop
- DB2 Version 7 changes