



Global Knowledge™



DB2 Family Fundamentals

Duration: 2 Days Course Code: CE031G

Overview:

This course provides you with information about the functions of IBM's DB2, a relational database manager which may be installed under a variety of operating systems on many hardware platforms.

DB2 runs under the z/OS, VM, Linux, UNIX, and Windows operating systems, to name a few.

This course replaces course DB2 Family Fundamentals (CE030GB). This is the Classroom version of Instructor-Led Online course DB2 Family Fundamentals - Instructor Led Online (3E031GB) and Web-Based course DB2 Family Fundamentals - Web-Based (1E030GB).

Target Audience:

This basic course is for persons needing an introductory knowledge of DB2, and persons preparing for advanced and specialized DB2 education.

Objectives:

- List and describe the major components of IBM's relational database, DB2
- Explain the characteristics of a DB2 table
- Relate the basic concepts of data modeling
- Comprehend the processing instructions given to DB2 via simple SQL statements
- List and describe several ways to build (write) and execute SQL statements
- List and describe steps needed to imbed SQL statements in an application program
- Explain some of the functions performed by, and the responsibilities of, database and system administrators
- Establish a base for more specialized DB2 education

Prerequisites:

You should have:

- basic knowledge in data processing

Content:

Understanding a Table

- Identify the advantages of a relational database

- Define a relation
- Name the language used to talk to a relational database manager (RDBM)
- List three characteristics assigned to each column
- Define the tasks performed by DB2 when running an application
- Define the roles that are performed within DB2
- Identify an Entity-Relational Diagram (ERD) model
- List several DB2 column data types
- Identify non-standard column and table names
- Identify the characteristics of a primary key and a foreign key
- State the purpose of referential integrity
- State the purpose of triggers
- List multiple ways to generate an SQL statement
- List several ways to ADD, REMOVE, or CHANGE table rows
- List several ways to READ data and produce reports
- List the necessary steps to coding SQL in a program
- Describe the purpose of SQL delimiters
- Describe the purpose of an SQLCA
- List the steps involved in preparing a program for execution
- State the differences between static and dynamic SQL
- List some of the tasks performed by a DB2 Database Administrator: Creating, altering and dropping tables, views and indexes, Planning locking strategies, Running utility jobs and Authorizing
- List some of the skills required to successfully distribute data
- Differentiate between remote unit of work, distributed unit of work, and distributed request
- List some of the security concerns when dealing with distributed data
- List some of the other products that interface with DB2
- Understanding a Table
- Data Modeling and Database Design
- How does a User use DB2?
- What does an Administrator do in DB2?
- Information Management with DB2

- Define a relation
- Name the language used to talk to a relational database manager (RDBM)

How does a User use DB2?

- List several ways to talk to DB2

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Agenda

Day 1

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Day 2

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Further Information:

For More information, or to book your course, please call us on 353-1-814 8200

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