

DB2 9 Training Agenda

Day-1

Section 1 - Planning (10:00 AM – 1:00 PM)

- A. Knowledge of restricting data access
- B. Knowledge of the features or functions available in DB2 tools (just tools that come with product - distributed space - i.e., control center, configuration advisor, configuration assistant, command line processor)

DEMO - Control Centre - DB Creation, Table Creation, Alter Table, Generate DDL , Command Editor – Executing SQL statements, Access plan and SQL Assist, Command Line Processor

- C. Knowledge database workloads (OLTP vs warehousing)
- D. Knowledge of non-relational data concepts (extenders)
- E. Knowledge of XML data implications (non-shreading)

----- **Lunch Break (1:00 PM – 2:00 PM)** -----

Practical Lab – Product Installation, DB creation, using DB2 tools (2:00 PM – 5:00 PM)

DAY-2

Section 3 - Working with Databases and Database Objects (10:00 PM – 11:30 PM)

- A. Ability to identify and connect to DB2 servers and databases

DEMO – Cataloging a Server & DB using Configuration Assistant and CLP

- B. Ability to identify DB2 objects
- C. Knowledge of basic characteristics and properties of DB2 objects
- D. Given a DDL SQL statement, knowledge to identify results (ability to create objects)

Section 4 - Working with DB2 Data using SQL (11:30 AM – 1:00 PM)

- A. Given a DML SQL statement, knowledge to identify results
- B. Ability to use SQL to SELECT data from tables
- C. Ability to use SQL to SORT or GROUP data
- D. Ability to use SQL to UPDATE, DELETE, or INSERT data
- E. Knowledge of transactions (i.e., commit/rollback and transaction boundaries)
- F. Ability to call a procedure or invoke a user defined function
- G. Given an XQuery statement, knowledge to identify results

DEMO – Creating table with XML datatype, Inserting, updating and deleting XML data, XQuery

----- **Lunch Break (1:00 PM – 2:00 PM)** -----

Practical Lab – DB2 Challenge (XML and XQuery) (2:00 PM – 3:30 PM)

Section 5 - Working with DB2 Tables, Views and Indexes (3:30 AM – 5:00 PM)

- A. Ability to demonstrate usage of DB2 data types
- B. Given a situation, ability to create table
- C. Knowledge to identify when referential integrity should be used
- D. Knowledge to identify methods of data constraint
- E. Knowledge to identify characteristics of a table, view or index
- F. Knowledge to identify when triggers should be used
- G. Knowledge of schemas
- H. Knowledge of data type options for storing XML data

DAY-3

Section 2 - Security (10:00 PM – 11:00 PM)

- A. Knowledge of DB2 products (client, server, etc.)
- B. Knowledge of different privileges and authorities

DEMO – Updating DBM CFG and DB CFG, assigning authority and privileges.

- C. Knowledge of encryption options (data and network)
- D. Given a DDL SQL statement, knowledge to identify results (grant/revoke/connect statements)

Section 6 - Data Concurrency (11:15 PM – 12:30 PM)

- A. Knowledge to identify factors that influence locking
- B. Ability to list objects on which locks can be obtained
- C. Knowledge to identify characteristics of DB2 locks
- D. Given a situation, knowledge to identify the isolation levels that should be used

DEMO – Working with Isolation levels using CLP