WORKSHOP AGENDA

Day-1: 20 May 2010

Section 1 - Planning

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)

Practical Lab – Product Installation, DB creation, using DB2 tools

DAY-2: 21 May 2010

Section 3 - Working with Databases and Database Objects

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

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

Practical Lab – DB2 Challenge (XML and XQuery)

Section 5 - Working with DB2 Tables, Views and Indexes

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: 22 May 2010

Section 2 - Security

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

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

DAY-4: 23 May 2010

Exam – Online Examination will be conducted