

IBM DATABASE ADMINISTRATOR (DBA) - DB2 10.1 FOR LINUX, UNIX, AND WINDOWS

COURSE CONTENT

❖ **SECTION 1 - DB2 SERVER MANAGEMENT (10%):**

- a. Demonstrate the ability to configure/manage DB2 servers, instances, and databases
- b. Demonstrate the ability to use autonomic features
- c. Demonstrate the ability to use Data Studio
 1. Demonstrate the ability to schedule jobs
 2. Demonstrate the ability to use visual explain

❖ **SECTION 2 - PHYSICAL DESIGN (26%):**

- a. Demonstrate the ability to create a database and manipulate various DB2 objects
 1. How to convert existing db to automatic storage db
 2. Admin_move_table feature
- b. Demonstrate knowledge of partitioning capabilities
- c. Demonstrate knowledge of XML data objects
- d. Demonstrate knowledge of compression
- e. Demonstrate knowledge of new table features
- f. Knowledge of Multi-temperature data feature

❖ **SECTION 3 - BUSINESS RULES IMPLEMENTATION (8.5%):**

- a. Demonstrate the ability to create constraints on tables
- b. Demonstrate the ability to create views WITH CHECK OPTION
- c. Demonstrate the ability to create and using triggers
- d. Demonstrate the ability to use the set integrity command

❖ **SECTION 4 - MONITORING DB2 ACTIVITY (10%):**

- a. Demonstrate the ability to use Admin views and SQL functions for monitoring
- b. Knowledge of Work Load Manager monitoring features
- c. Demonstrate the ability to use additional auto-monitoring tools
- d. Demonstrate the ability to identify the functions of Problem Determination Tools
- e. Demonstrate the ability to capture and analyze EXPLAIN/VISUAL EXPLAIN information

❖ **SECTION 5 - UTILITIES (14%):**

- a. Demonstrate the ability to use traditional data movement utilities
- b. Demonstrate the ability to use the Ingest utility
- c. Demonstrate the ability to use the REORG, REORGCHK, REBIND, RUNSTATS and FLUSH PACKAGE CACHE utilities
- d. Demonstrate the ability to use the DB2 Design Advisor utility

❖ **SECTION 6 - HIGH AVAILABILITY (10%):**

- a. Describe DB2 data integrity actions (crash recovery, version recovery, roll forward recovery)
- b. Demonstrate the ability to perform database-level and table space level backup and recovery operations
- c. Demonstrate the ability to configure and manage HADR (read from standby)
- d. Demonstrate knowledge of DB2 pureScale (HA features only)

❖ **SECTION 7 - SECURITY (15%):**

- a. Describe DB2 authorizations and privileges
- b. Knowledge of the security administrator role
- c. Demonstrate general knowledge of the Audit facility
- d. Demonstrate knowledge of the trusted context
- e. Demonstrate knowledge of row column access control (RCAC)

f. Demonstrate knowledge of LBAC

❖ **SECTION 8 - CONNECTIVITY AND NETWORKING (6.5%):**

- a. Demonstrate the ability to configure database connectivity
- b. Demonstrate knowledge of DB2 Discovery
- c. Demonstrate knowledge of LDAP

