

ADVANCED DBA DB2 10.1 FOR LINUX UNIX AND WINDOWS COURSE CONTENT

❖ **SECTION 1 - DATABASE DESIGN (17%):**

- a. Ability to design, create and manage database storage paths
- b. Ability to design, create and manage table spaces
- c. Ability to design, create and manage buffer pools
- d. Ability to design and configure a database for multi-temperature data
- e. Ability to use Data Studio to manage database environments

❖ **SECTION 2 - DATA PARTIONING AND CLUSTERING (20%):**

- a. Ability to design, create, and manage database partitioning (DPF)
- b. Ability to design, create, and manage multi-dimensional clustered tables
- c. Ability to design, create, and manage range partitioning
- d. Ability to design, create, and manage insert time clustering tables
- e. Ability to design, create, and manage range clustering tables

❖ **SECTION 3 - HIGH AVAILABILITY AND DIAGNOSTICS (24%):**

- a. Ability to manage database logs for recovery
- b. Ability to use advanced backup features
- c. Ability to use advanced recovery features
- d. Knowledge of Work Load Manager (WLM)
- e. Ability to use High Availability Disaster Recovery (HADR)
- f. Ability to determine the appropriate diagnostic tool to use for a given scenario

❖ **SECTION 4 - PERFORMANCE AND SCALABILITY (24%):**

- a. Knowledge of query optimizer concepts
- b. Ability to manage and tune database, instance and application memory and I/O
- c. Ability to use compression
- d. Given a scenario, resolve performance problems
- e. Ability to determine the appropriate index for a given scenario
- f. Ability to exploit parallelism

❖ **SECTION 5 - ADVANCED CONCEPTS (15%):**

- a. Knowledge of how/when to create a federated database environment
- b. Knowledge of replication
- c. Knowledge of pureScale
- d. Knowledge of how/when to use the DB2 Audit facility