

# Wizards Training

## DB2-UDB-9 Training Course Curriculum

Duration: Six Weekends / (Sat & Sun: 1:30 pm– 5:30pm) - Approx. 60hrs

### DB2 UDB 9 on Linux/Unix/Windows (LUW) Database Administration Curriculum

#### □ DB2 Products and Editions Overview

#### □ DB2 Tools Overview

#### □ DB2 Big Picture

- DB2 UDB Architecture
- Create Instance, Database, Bufferpools, Tablespaces, Tables, Indexes
- Catalog Database

#### □ DB2 Servers & Clients: Installation & Configuration

- DB2 Instance Creation & Upgrades, Administration Server (DAS)
- Environmental & Configuration Parameters
- DB2 Client/Server Connectivity, DB2 Connect
- Memory Management, Self Tuning Memory Management (STMM)
- Storage Model
- Process Model

#### □ DB2 Security

- Authentication, Authorization, & Privileges

#### □ DB2 Objects In-depth

- Types of Tablespaces, Tables, Indexes, Views, Identity Columns, Sequence Objects

- Bufferpool Considerations
- In-built & User-defined Data Types
- Referential Constraints (Foreign Keys), Check Constraints,

#### □ DB2 Storage Management In-depth

- Database Directory Structure
- Automatic Storage, System Temporary Storage
- DMS vs. SMS
- Clustering Index, Multi-Dimensional Clustering (MDC), Summary Tables (MQTs), Table Partitioning, Row Compression Considerations

#### □ Database Access & Programming Techniques

- DDL, DML, & DCL
- Inbuilt Functions
- SQL Stored Procedures, User-defined Functions (Scalar & Table), & Triggers
- Concept of Cursors
- Common Table Expressions
- Global Temporary Tables
- Understanding Unit of Work/ Transaction
- Isolation Levels, Lock Compatibility, & Deadlocks
- XML storage & querying capabilities of DB2 UDB 9

#### □ Performance Monitoring & Tuning

- DB2 Optimizer and Data Access Paths

Training Location: 1039 Sterling Road, Ste. 103, Herndon-VA-20170. USA.

Ph: 703-263-7278, 703-968-6268 Fax: 703-935-8849 training @wizardsedu.com

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- Transactional vs. DSS Workload Considerations
- Snapshot Monitor, Event Monitor,
- DB2 Performance Monitoring Tools
- Explain, Visual Explain, db2batch, db2explain
- **Debugging Tools & Facilities**
- db2diag.log, Notification Log, Trap Files, Dump Files
- INSPECT Command, db2pd, db2dart, db2support Utilities
- **DB2 Utilities – Data Movement & Data Maintenance**
- Export, Import, Load, db2move, db2look
- RUNSTATS, REORG, REORGCHK, REBIND
- Various Tablespace States and How to resolve Them
- Utility Throttling
- **DB2 Backup & Recovery**
- Recovery Strategies
- Types of Logs and Logging
- Various Types of BACKUP
- Various Types of RESTORE
- User-exits and Log Shipping
- High Availability through HADR
- **Multi-Partitioned Databases (DB2 ESE)**
- Parallel Database Architectures
- Inter-partition & Intra-partition Parallelism
- DB2 UDB Partitioned Environment Installation Examples
- Database Partition Groups, Partitioning Maps, Partitioning Keys
- How Joins Work on Multi-Partitioned Databases
- Backup & Recovery Considerations for Multi-Partitioned Database
- Query Patroller
- **SQL Replication Overview**
- Infrastructure Requirements
- Configuration of Servers for SQL Replication
- Operating CAPTURE & APPLY Programs
- **DB2 Certifications**
- Roadmap on various Certifications offered by IBM
- Information on Study Guides & Taking the Test
- Tutorials

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