IBM Certified Administrator - Db2 12 for z/OS

Online Course

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Course Modules

1. Database Design and Implementation

- Design tables and views
- Different performance implications of identity column, ROWID
- Design indexes
- Design universal table spaces
- Perform partitioning
- Normalize data & translate data model into physical model
- Understand and describe Db2 database enforced integrity rules
- Use the appropriate method to alter Db2 objects
- Explain the use and impact of different encoding schemes

2. Operation and Recovery

- Execute commands & subcommands for nrml operatnal conditns
- Explain and execute commands and utility control statements
- Load and unload data into and from Db2 tables
- Reorganize objects when necessary
- Monitor objects by collecting statistics
- Monitor and manage threads and utilities
- Identify & respond to advisory/restrictive statuses on Db2 objects
- Identify and perform problem determination
- Perform object and catalog/directory health checks
- Actions needed to protect databases from planned & unplanned
- Identify & perform actions needed to recover data to a consistent

3. Security and Auditing

- Explain privileges and authorities
- Protect access to Db2 and its objects
- Audit Db2 actvty & resources and identify primary audit technqus
- Identify & respond appropriately to symptoms from trace output
- Explain & use roles, trusted context, data masking & encryption

4. Performance

- Plan for performance monitorg by setting up & running monitorg
- Analyze performance (manage and tune CPU requirements)
- Analyze and respond to RUNSTATS statistics analysis
- Determine when and how to perform REBIND
- Describe Db2 interaction with Workload Manager (WLM)
- Review and tune SQL
- Monitor dynamic SQL performance
- Design features for performance
- Explain how to control and influence access paths

5. Installation and Migration

- Recommend settings for critical Db2 system parameters
- Identify and explain Db2 data sharing components & commands
- Describe use of premigration checklists
- Describe the function of the catalog and directory
- Demonstrate undstndg of the Db2 12 continuous delivery process
- Explain the migration process & activation of new function levels

6. Additional Database Functionality

- Explain and use SQL constructs
- Explain the use of stored procedures
- Explain the use of SQL/XML and XQuery
- Explain the use of user-defined functions
- Explain and use global variables
- Describe the use of triggers, merge statemnt, pagination options

7. Distributed Access

- Undstndg of distrbutd data access & the role of the communcatns
- Demonstrate understanding of Distributed Data Facility (DDF)
- Recommend values for critical DDF configuration settings
- Understanding and implementing distributed data access
- Db2 support for Native REST services & differentiate from RESTful

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