Oracle DBA Course Content

SECTION 1: INTRODUCTION

- ➢ What is Database?
- ➢ What is Oracle DBA?
- ➢ Environment Setup

SECTION 2: EXPLORING THE ORACLE DATABASE ARCHITECTURE

- ➢ Describe course objectives
- ➢ Explore the Oracle 11g database architecture

SECTION 3: MANAGING THE DATABASE INSTANCE

- ➢ Start and stop the Oracle database and components
- ➢ Use Enterprise Manager (EM)
- ➢ Access a database with SQL*Plus and iSQL*Plus
- ➢ Modify database initialization parameters
- ➢ Understand the stages of database startup
- ➢ View the Alert log
- ➢ Use the Data Dictionary

SECTION 4: INSTALLING ORACLE DATABASE SOFTWARE

- ➢ Explain core DBA tasks and tools
- ➢ Plan an Oracle installation
- ➢ Use optimal flexible architecture
- ➢ Install software with the Oracle Universal Installer (OUI)

SECTION 5: BACKUP STRATEGIES AND TERMINOLOGY

- ➢ Create consistent database backups
- ➢ Back your database up without shutting it down
- ➢ Create incremental backups
- ➢ Automate database backups
- ➢ Monitor the flash recovery area

SECTION 6: ADMINISTERING USER SECURITY

- ➢ Create and manage database user accounts
- ➢ Authenticate users
- ➢ Assign default storage areas (tablespaces)
- ➢ Grant and revoke privileges
- ➢ Create and manage roles
- ➢ Create and manage profiles
- ➢ Implement standard password security features
- ➢ Control resource usage by users

SECTION 7: MANAGING UNDO DATA

- ➢ Explain DML and undo data generation
- ➢ Monitor and administer undo
- ➢ Describe the difference between undo and redo data
- ➢ Configure undo retention
- ➢ Guarantee undo retention
- ➢ Use the undo advisor

SECTION 8: PERFORMING DATABASE MAINTENANCE

- ➢ Archive Log retention
- ➢ Scheduled Jobs
- ➢ Tablespace Management
- ➢ Undo and temp Usage monitoring

SECTION 9: MANAGING PERFORMANCE

- ➢ Performance Considerations for Initial Instance Configuration
- ➢ Creating and Maintaining Tables for Good Performance
- ➢ Overview of Data Gathering

SECTION 10: MANAGING PERFORMANCE: SQL TUNING

- ➢ Introduction to Oracle Applications
- ➢ Overiew of functionalities of Oracle Applications
- ➢ Application components
- ➢ Basic application maintenance activities

SECTION 11: MANAGING SPACE

- ➢ Describe table data storage (in blocks)
- ➢ Define the purpose of tablespaces and data files
- ➢ Understand and utilize Oracle Managed Files (OMF)
- ➢ Create and manage tablespaces
- ➢ Obtain tablespace information

SECTION 12: CONFIGURING AND USING RECOVERY MANAGER

- ➢ Recovery Manager Features and Components
- ➢ Using a Flash Recovery Area with RMAN
- ➢ Configuring RMAN
- ➢ Control File Autobackups
- ➢ Retention Policies and Channel Allocation
- ➢ Using Recovery Manager to connect to a target database in default NOCATALOG mode
- ➢ Displaying the current RMAN configuration settings
- ➢ Altering the backup retention policy for a database

SECTION 13: BACKUP AND RECOVERY CONCEPTS

- ➢ Identify the types of failure that may occur in an Oracle Database
- ➢ Describe ways to tune instance recovery
- ➢ Identify the importance of checkpoints, redo log files, and archived log files
- ➢ Configure ARCHIVELOG mode

SECTION 14: PERFORMING FLASHBACK

- ➢ Describe Flashback database
- ➢ Restore the table content to a specific point in the past with Flashback Table
- ➢ Recover from a dropped table
- ➢ View the contents of the database as of any single point in time with Flashback Query
- ➢ See versions of a row over time with Flashback Versions Query
- ➢ View the transaction history of a row with Flashback Transaction Query

SECTION 15: MOVING DATA

- ➢ Describe available ways for moving data
- ➢ Create and use directory objects
- ➢ Use SQL*Loader to load data from a non-Oracle database (or user files)
- ➢ Explain the general architecture of Data Pump
- ➢ Use Data Pump Export and Import to move data between Oracle databases
- ➢ Use external tables to move data via platform-independent files

SECTION 16: DISASTER RECOVERY

- ➢ Introduction to High Availability
- ➢ Explain Dister recover concepts
- ➢ Flow of Data in a DR configured database
- ➢ Backgrounf Process involved in DR

SECTION 17: WORKING WITH ORACLE SUPPORT

- ➢ Oracle Document search in Dashboard
- ➢ Creating and followup of Oracle SR
- ➢ Patch Download
- ➢ Software Download

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