

ORACLE DBA – SYLLABUS:

1. Introduction to Oracle
2. Understanding the Architecture
 - 2.1. Oracle Server Database and Instance
 - 2.2. Architecture Diagram Representation
 - 2.3. Description of Component
 - 2.4. Understanding Physical Structure, Memory Structure, Process Structure, Logical Structure
 - 2.5. Executing of An SQL Statement
3. Installing Oracle
 - 3.1. Hardware Requirements for Installation
 - 3.2. Operating System Pre-Requisites to Install the ORACLE 11g
 - 3.3. Installation of ORACLE 11g on Linux
4. Creating a Database
 - 4.1. Creating A Database with DBCA command
 - 4.2. Creating A Database with Script File
 - 4.3. Dropping A Database
5. Database Management
 - 5.1. Creating and Managing Initialization Files-PFile & SPFile
 - 5.2. Advantages of SPFile Over PFile
 - 5.3. Database Start up & Shutdown Procedures
 - 5.4. Monitoring Alert Log and Trace Files
6. Tablespaces & Datafiles
 - 6.1. Types of Tablespaces
 - 6.2. Creating, Alter and Drop Tablespace
 - 6.3. Making Offline and Online Tablespaces
 - 6.4. Read Write & Read Only Mode of Tablespace
 - 6.5. Resizing Datafiles
 - 6.6. Adding & Deleting A Datafile to Existing Tablespace
 - 6.7. Creation of Big File Tablespace
 - 6.8. Configuration of Default Tablespace
 - 6.9. Drop a Tablespace
7. User Management (Users & Roles)
 - 7.1. Creating A New User
 - 7.2. Alter & Drop Existing Database Users
 - 7.3. Obtaining User Information
 - 7.4. Lock and Unlock User Accounts
 - 7.5. System Privileges
 - 7.6. Granting and Revoking System Privileges
 - 7.7. Object Privileges
 - 7.8. Creating Roles and Advantages of Roles
 - 7.9. Assigning Roles to Users
 - 7.10. Removing Roles from Users
8. Export and Import
 - 8.1. Main Tasks of Exports and Imports
 - 8.2. Incremental, Cumulative and Complete Export and Import
 - 8.3. Points to Remember before doing Export & Import

9. Data Pump

- 9.1. Introduction, Advantages of Data Pump
- 9.2. Data Pump Export & Import Modes
- 9.3. Transport of Tablespaces in Different Platforms

10. Managing UNDO Segments

- 10.1. Understanding Oracle Undo Segments, Retention Policy, Retention Guarantee, No Guarantee, Switching Undo Tablespaces

11. Control & Log Files

- 11.1. Contents, Multiplexing & Backing up of Control File
- 11.2. Purpose of How Online Redolog Files work with their Associated BG Processes
- 11.3. Controlling Log Switches and Check Points, Multiplexing and Archiving Online Redo Log files

12. Networking

- 12.1. Contents, Multiplexing & Backing up of Control File
- 12.2. Purpose of How Online Redolog Files work with their Associated BG Processes
- 12.3. Controlling Log Switches and Check Points, Multiplexing and Archiving Online Redo Log files

13. Backups

- 13.1. ORACLE Recovery Manager Features & Components Repository,
- 13.2. Channel Allocation,
- 13.3. Configuring RMAN Environment,
- 13.4. Complete & Incomplete Recovery,
- 13.5. Full/Incremental Backups,
- 13.6. RMAN Compressed Backups

14. Cloning & Patching

- 14.1. General understanding of Duplicate Database
- 14.2. Live cloning as per live environment
- 14.3. Other methods – like restore and simple cp commands
- 14.4. Opatch utility
- 14.5. Listing Patch from Inventory
- 14.6. Understanding Central and local inventory

15. Performance Tuning

- 15.1. Overview of Tuning Phases,
- 15.2. Methodology and Common Performance Problems I/O Issues,
- 15.3. Redo Log File Configuration
- 15.4. Online Segment Shrinking
- 15.5. Diagnostic Tuning Tools