

ORACLE 11G DBA COURSE CONTENT

PRE REQUISITES: BASIC SQL*PLUS SCRIPT KNOWLEDGE IS NEEDED

❖ **INTRODUCTION:**

- Different types of oracle products and features.
- New features in oracle 11g
- Differences among oracle9i, oracle 10g and oracle 11g features along with its importance.

❖ **INSTALLING ORACLE DATABASE 10G SOFTWARE:**

- System requirements.
- Redhat Linux Installation
- Install software with the Oracle Universal Installer on Linux Platform

❖ **CREATION OF AN ORACLE DATABASE:**

- Oracle Database 11g Architecture
- Oracle instance architecture
- Oracle Read Consistency and Concurrency

❖ **CONTROLLING THE DATABASE:**

- Start and stop the enterprise manager database console
- Start and stop the listener
- Startup and shutdown the database

❖ **DATABASE CREATION:**

- Manual
- Database Configuration Assistant(DBCA)

❖ **STORAGE STRUCTURES AND ARCHITECTURE OF ORACLE 11G DBA:**

- Logical structure Vs Physical structure
- Defining the tablespaces and data files
- Create tablespaces
- Manage tablespaces
- Obtain tablespace information
- Managing Undo Data

❖ **FILE MANAGEMENT:**

- Control File Management
- Redo Log File Management
- Parameter File Management
- Obtain tablespace information

❖ **USER MANAGEMENT:**

- Create and manage database user accounts
- Roles
- Privileges
- Control resource usage by using Profiles

❖ **ORACLE NET SERVICES:**

- Understand Oracle Net concepts
- Use Oracle Net Manager to create and configure listeners
- Use the listener control utility to control the Oracle Net Listener
- Testing Oracle Net connectivity

- Shared Server: Connection pooling

❖ **MANAGING SCHEMA OBJECTS:**

- Create and modify tables
- Define constraints
- View the attributes of a table
- View the contents of a table
- Create indexes and views

❖ **ORACLE BACKUP & RECOVERY (USER MANAGED):**

- Introduction
- Design, Testing, Implementation Strategies
- Offline(cold)/Online(hot) backups
- Performing Complete Recovery
- Performing Incomplete Recovery

❖ **ORACLE BACKUP & RECOVERY (SYSTEM MANAGED: RMAN):**

- Introduction
- RMAN Architecture
- Configuration
- Setting up Catalog
- Online/Offline Backup using RMAN
- Backups Options
- Incremental Backups
- Complete Recovery
- Incomplete Recovery
- Table Space Point in Time Recovery (TSPITR)
- Disaster Recovery

❖ **CLONING:**

- RMAN
- Manual

❖ **LOGICAL BACKUP & TRANSPORTING DATA BETWEEN DATABASES:**

- Introduction Data pump (expdp, impdp) Utilities
- Exporting/Importing Tables
- Exporting/Importing Schemas
- Exporting/Importing Table space
- Exporting/Importing Database
- Transportable Table space within & across the database and platforms

❖ **HIGH AVAILABILITY (HA):**

- Database Patch Management Introduction
- Applying Interim and Patch set Patches
- Patch History & Documentation

❖ **ORACLE ENTERPRISE MANAGER AND PERFORMANCE TUNING:**

- New features and its analysis of statistics on performance Tuning

❖ **PROACTIVE MAINTENANCE:**

- Contents
- Optimizer statistics

- Automatic Workload Repository

❖ **FLASHBACK:**

- Introduction
- Configuration
- Flashback Query/Table/Drop/Database
- Flashback Version Query
- Creating Restore Points

❖ **AUTOMATIC STORAGE MANAGEMENT:**

- New features and implementation

❖ **ORACLE GRID CONTROL:**

- Introduction
- Architecture
- Managing the multiple database nodes using OEM grid control

