

## Oracle DBA Course Content

Database Administrators (DBAs) are responsible for the design, implementation, support and maintenance of computerized databases in today's organizations. The role also includes architecting, building and scaling databases for future data growth and capacity. They are also responsible for security, performance and availability of data to users and customers.

### Learn To:

- Install Oracle Grid Infrastructure.
- Create and manage users.
- Install and configure an Oracle Database.
- Create and manage storage structures.
- Administer the Oracle Database.
- Understand the Oracle database architecture and how its components work and interact with one another.
- Perform backup and recovery.

### Prerequisite

Knowledge of SQL/PLSQL

## Oracle DBA Training Course Content

### Introduction

- Different types of oracle products and features.
- New features in oracle 11g
- Differences among oracle9i, oracle 10g, oracle 11g and oracle 12C features along with its importance.

### 2. Installing oracle database 11g software.

- System requirements.
- Redhat Linux 5.8 Installation (with and without Vmware workstation)
- Installation of multiple oracle servers and multiple oracle databases on Vmware workstation

### 3. Creation of an oracle database.

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

### 4. Controlling the database

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

### 5. Database Creation.

- Manual
- Database Configuration Assistant(DBCA)

### 6. 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

### 7. File Management.

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

### 8. User Management.

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

### 9. 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

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### 10. 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

### 11. Oracle Backup & Recovery (User Managed).

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

### 12. 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

### 13. Cloning.

- RMAN
- Manual

### 14. 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
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- Transportable Table space within & across the database and platforms

### 15. Proactive Maintenance

- Contents
- Optimizer statistics
- Automatic Workload Repository,ASH,ADDM,TKPROE

### 16. Flashback

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

### 17. Up-gradation and management

- 10g-11g-12C

### 18. Oracle 12C

- Integration
- Architecture
- CDB-PDB