

Course Name: ORACLE DBA

1. 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.

2. Installing oracle database 10g software.

- System requirements.
- Redhat Linux 5.0 Installation (**with and without Vmware workstation**)
- Installation of multiple oracle servers and multiple oracle databases on Vmware workstation (features and advantages for RAC implementation with Vmware configuration)
- Install software with the Oracle Universal Installer on Linux Platform

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

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
- Transportable Table space within & across the database and platforms

15. High Availability (HA).

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

16. Oracle Enterprise Manager and Performance tuning

- New features and its analysis of statistics on performance Tuning

17. Proactive Maintenance

- Contents
- Optimizer statistics
- Automatic Workload Repository

18. Flashback.

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

19. Automatic Storage Management.

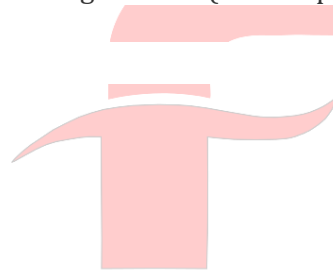
- New features and implementation

20. Oracle Grid Control.

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

21. Data Replication and Integration

- Oracle database 11g streams features overview
- Oracle database 11g streams (Data Replication and Integration)



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