



Oracle Database (commonly referred to as Oracle RDBMS or simply as Oracle)
It is an object-relational database management system produced and
marketed by Oracle Corporation.

Oracle 11g Release 2 Database Administration training

Oracle 11g Release 2 DBA training:

1. Database Administration Workshop I - Covers 10g & 11g

Advanced Concepts (Optional at additional cost)

2. Backup & Recovery using RMAN in detail
3. Automatic Storage Management (ASM) in detail
4. Introduction to RAC

Course highlights

This course is designed to give participants a firm foundation in basic administration of Oracle Database 11g. In this class, participants learn how to install and maintain Oracle Database 11g. They gain a conceptual understanding of the Oracle database architecture and how its components work and interact with one another. They also learn how to create an operational database and properly manage the various structures in an effective and efficient manner including performance monitoring, database security, user management, and backup/recovery techniques. Get trained by the Best Oracle DBA training institute in Bangalore.

Duration: 14-16 days/ 3 hours per day

Availability:

Weekend & Weekday trainings available. Timings suitable for working professionals.

Infrastructure: High End Servers & Setups available for Lab practice

Trainer Profile: Certified & Experienced real time Professional working with leading MNC

Pre-requisite/s:

Working knowledge of SQL
Working knowledge on UNIX/Linux OS

Course Topics:

Exploring the Oracle Database Architecture

- Oracle Database Architecture Overview
- Oracle ASM Architecture Overview
- Process Architecture
- Memory structures
- Logical and physical storage structures
- ASM storage components

Installing your Oracle Software

- Tasks of an Oracle Database Administrator
- Tools Used to Administer an Oracle Database
- Installation: System Requirements
- Oracle Universal Installer (OUI)
- Installing Oracle Grid Infrastructure
- Installing Oracle Database Software
- Silent Install

Creating an Oracle Database

- Planning the Database
- Using the DBCA to Create a Database
- Password Management
- Creating a Database Design Template
- Using the DBCA to Delete a Database

Managing the Oracle Database Instance

- Start and stop the Oracle database and components
- Use Oracle Enterprise Manager
- Access a database with SQLPlus
- Modify database installation parameters
- Describe the stages of database startup
- Describe database shutdown options
- View the alert log
- Access dynamic performance views

Manage the ASM Instance

- Set up initialization parameter files for ASM instance
- Start up and shut down ASM instances
- Administer ASM disk groups

Configuring the Oracle Network Environment

- Use Enterprise Manager to create and configure the Listener
- Enable Oracle Restart to monitor the listener
- Use tnsping to test Oracle Net connectivity
- Identify when to use shared servers and when to use dedicated servers

Managing Database Storage Structures

- Storage Structures
- How Table Data Is Stored
- Anatomy of a Database Block
- Space Management in Tablespaces
- Tablespaces in the Preconfigured Database
- Actions with Tablespaces
- Oracle Managed Files (OMF)

Administering User Security

- Database User Accounts
- Predefined Administrative Accounts

- Benefits of Roles
- Predefined Roles
- Implementing Profiles

Managing Data Concurrency

- Data Concurrency
- Enqueue Mechanism
- Resolving Lock Conflicts
- Deadlocks

Managing Undo Data

- Data Manipulation
- Transactions and Undo Data
- Undo Data Versus Redo Data
- Configuring Undo Retention

Implementing Oracle Database Auditing

- Describe DBA responsibilities for security
- Enable standard database auditing
- Specify audit options
- Review audit information
- Maintain the audit trail

Database Maintenance

- Manage optimizer statistics
- Manage the Automatic Workload Repository (AWR)
- Use the Automatic Database Diagnostic Monitor (ADDM)
- Describe and use the advisory framework
- Set alert thresholds
- Use server-generated alerts
- Use automated tasks

Performance Management

- Performance Monitoring
- Managing Memory Components
- Enabling Automatic Memory Management (AMM)
- Automatic Shared Memory Advisor
- Using Memory Advisors
- Dynamic Performance Statistics
- Troubleshooting and Tuning Views
- Invalid and Unusable Objects

Backup and Recovery Concepts

- Part of Your Job
- Statement Failure
- User Error
- Understanding Instance Recovery
- Phases of Instance Recovery
- Using the MTTR Advisor

- Media Failure
- Archive Log Files

Performing Database Backups using RMAN

- Backup Solutions: Overview
- Oracle Secure Backup
- User-Managed Backup
- Terminology
- Recovery Manager (RMAN)
- Configuring Backup Settings
- Backing Up the Control File to a Trace File
- Monitoring the Flash Recovery Area

Performing Database Recovery

- Opening a Database
- Data Recovery Advisor
- Loss of a Control File
- Loss of a Redo Log File
- Data Recovery Advisor
- Data Failures
- Listing Data Failures
- Data Recovery Advisor Views

Data Replication

- Describe ways to move data
- Create and use directory objects
- Use SQL*Loader to move data
- Use external tables to move data
- General architecture of Oracle Data Pump
- Use Data Pump export and import to move data

Additional Advanced Topics - OPTIONAL

RMAN TOPICS:

- Backup Strategies
- FLASH recovery area
- RMAN Architecture
- RMAN backup components
- RMAN catalog and configuration
- RMAN Commands
- Monitoring RMAN backups
- Restoring and recovering using RMAN

ASM TOPICS:

Database Architecture and ASM

- Describe Automatic Storage Management (ASM)
- Set up initialization parameter files for ASM and database instances
- Start up and shut down ASM instances
- Administer ASM disk groups
- Storage Fundamentals
- ASM Concepts
- Preparing ASM Storage
- ASM Instance setup

Introduction to RAC

What is Oracle RAC?

What do you mean by clustering in Oracle?

Basic Oracle RAC Architecture

What is Multiple instance?

Why do we need to setup RAC?

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