Oracle Database 11g: Administration Workshop I Release 2 (OD-11gAWR2)

Modality: Virtual Classroom

Duration: 5 Days

About this course:

The Oracle Database 11g: (Administration Workshop I R2) course is designed to provide you the understanding and knowledge of fundamental database administration. Professional Oracle University trainers will enhance your skills with organized hands-on exercises that prepare you for other equivalent Oracle Certified Associate course.

Learn To:

- Build and handle storage structures.
- Build and oversees users.
- Manage the Oracle Database.
- Establish Oracle Grid Infrastructure.
- Establish and setup an Oracle Database.
- Perform recovery and backup.
- Define the Oracle database architecture and explain in what way its components interact and work together.

Benefits to You:

Ensure secure, reliable, easy, and fast to handle performance. Lower IT costs, improve database workloads, and offer a better quality of service by allowing rapid and smooth consolidation under your Datacenter.

Create an Operational Database:

This course will also help you to understand how to build an operational database and effectively manage the different structures efficiently and effectively. This incorporates database security, backup/recovery techniques, performance monitoring, and user management.

Training Requirements:

This course satisfies the training requirement for an Oracle Certification track. Kindly note that Knowledge Center courses and Self-Study Courses do not satisfy the training requirement.

Salary Estimate:

The Oracle Developer can make an average salary of \$106,225 per annum.

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Course Objective:

- Administer and monitor undo data
- Establish Oracle Grid Infrastructure
- Administer and create user accounts
- Handle data concurrency
- Installation and configuration of Oracle Database 11g
- Define Oracle Database Architecture
- Configuration of Oracle Net services
- Oversees the database storage structures
- Carryout essential recovery and backup of a database
- Monitor performance

Audience:

- Technical Consultant and Administrator
- Database Administrators
- Support Engineer
- Java Developers

Prerequisite:

- Having Oracle SQL/PL course or equal experience
- Having Oracle Introduction to SQL course or equal experience

Course Outline:

Exploring the Oracle Database Architecture

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

Installing your Oracle Software

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

Creating an Oracle Database

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

Managing the Oracle Database Instance

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

Manage the ASM Instance

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

Configuring the Oracle Network Environment

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

Managing Database Storage Structures

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

Administering User Security

- Benefits of Roles
- Predefined Administrative Accounts
- Implementing Profiles
- Predefined Roles
- Database User Accounts

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Managing Data Concurrency

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

Managing Undo Data

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

Implementing Oracle Database Auditing

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

Database Maintenance

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

Performance Management

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

Backup and Recovery Concepts

- Understanding Instance Recovery
- Statement Failure
- Phases of Instance Recovery

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- Archive Log Files
- Media Failure
- Part of Your Job
- User Error
- Using the MTTR Advisor

Performing Database Backups

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

Performing Database Recovery

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

Moving Data

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

Working with Support

- Use the Enterprise Manager Support Workbench
- Manage patches
- Work with Oracle Support
- Log service requests (SR)

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