

Oracle Database 12c: Administration Workshop Ed 2 NEW

Duration: 5 Days

What you will learn

The Oracle Database 12c: Administration Workshop will teach you about the Oracle Database architecture. You will discover how to effectively manage an Oracle Database instance, configure the Oracle Network Environment and perform database maintenance.

Learn To:

Create and manage an Oracle Database Instance.

Create and manage Storage Structures.

Configure the Oracle Network Environment.

Create and manage users.

Monitor the database and manage performance.

Learn basic information on backup and recovery techniques.

Use the Oracle Support Workbench and My Oracle Support to update your Oracle Database software.

Benefits to You

Ensure fast, reliable, secure and easy to manage performance. Optimize database workloads, lower IT costs and deliver a higher quality of service by enabling consolidation onto database clouds.

Participate in Hands-On Practices and Demonstrations

Expert instruction and hands-on demonstrations will provide you with real world experience. By engaging in hands-on exercises to reinforce your learning, you'll develop in demand skills to effectively manage an Oracle Database.

Audience

Data Warehouse Administrator

Database Administrators

Database Designers

Support Engineer

Technical Administrator

Related Training

Required Prerequisites

Working knowledge of SQL and use of PL/SQL packages

EZY Intellect Pte. Ltd.,

#1 Changi North Street 1, Singapore – 498789. www.ezyintellect.com

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Suggested Prerequisites

Basic knowledge of Linux operating system

Course Objectives

Monitor the Database

Manage Database Performance

Implement Database Auditing

Configure the Database Instance Such That Resources Are Appropriately Allocated Among Sessions and Tasks

Schedule Jobs to Run Inside or Outside of the Database

Configure Oracle Net Services

Configure your Database for Backup and Recovery Operations

Describe Oracle Database Architecture

Manage the Oracle Database Instance

Manage Oracle Database Storage structures

Create and Administer User Accounts

Course Topics

Introduction

Course Objectives

Course Schedule

Overview of Oracle Database 12c

Overview of Oracle Cloud

Overview of the HR Schema

Exploring the Oracle Database Architecture

Oracle Database Architecture: Overview

Oracle Database Instance Configurations

Connecting to the Oracle Database Instance

Oracle Database Memory Structures

Process Architecture

Process Structures

Process Startup Sequence

Database Storage Architecture

Managing the Database Instance

Introducing Oracle Database Management Tools

Understanding the Enterprise Manager Management Framework

Logging in to Oracle Enterprise Manager Database Express

Using the Enterprise Manager Database Express Home Page

Using Enterprise Manager Cloud Control

Using SQL*Plus

Using SQL Developer
Initialization Parameter Files

Configuring the Oracle Network Environment

Oracle Net Services Overview
Oracle Net Listener Overview
Establishing Oracle Network Connections
Tools for Configuring and Managing the Oracle Network
Using the Listener Control Utility
Using Oracle Net Configuration Assistant
Using Oracle Net Manager
Using Enterprise Manager Cloud Control

Managing Database Storage Structures

Understanding Storage of Data
Database Block Contents
Exploring the Storage Structure
Creating a New Tablespace
Overview of Tablespaces Created by Default
Managing Tablespaces
Viewing Tablespace Information Using
Oracle Managed Files

Administering User Security

Database User Accounts
Predefined Administrative Accounts
Creating a User
Authentication
Unlocking a User Account and Resetting the Password
Privileges
Roles
Profiles

Managing Data Concurrency

Overview of Locks
Locking Mechanism
Data Concurrency
DML Locks
Enqueue Mechanism
Lock Conflicts

Managing Undo Data

Undo Data Overview
Transactions and Undo Data
Storing Undo Information

Comparing Undo Data and Redo Data

Managing Undo

Configuring Undo Retention

Guaranteeing Undo Retention

Changing an Undo Tablespace to a Fixed Size

Implementing Oracle Database Auditing

Separation of Responsibilities

Database Security

Monitoring for Compliance

Standard Database Auditing

Unified Audit Data Trail

Separation for Duties for Audit Administration (AUDIT_ADMIN and AUDIT_VIEWER roles)

Configuring the Audit trail specifying Audit Options

Performing Database Maintenance

Database Maintenance

Viewing the Alert History

Terminology

Automatic Workload Repository (AWR)

Statistic Levels

Automatic Database Diagnostic Monitor (ADDM)

Advisory Framework

Enterprise Manager and Advisors

Managing Performance

Performance Monitoring

Tuning Activities

Performance Planning

Instance Tuning

Performance Tuning Methodology

Performance Tuning Data

Monitoring Performance

Managing Memory

Managing Performance: SQL Tuning

SQL Tuning

Oracle Optimizer

SQL Plan Directives

Adaptive Execution Plans

SQL Advisors

Automatic SQL Tuning Results

Implement Automatic Tuning Recommendations SQL

Tuning Advisor

Managing Resources by Using Database Resource Manager

- Database Resource Manager Overview
- Database Resource Manager Concepts
- Using the Resource Manager
- Default Maintenance Resource Manager Plan
- Default Plan Example
- Resource Manager Workflow
- Specifying Resource Plan Directives
- Resource Allocation Methods for Resource Plans

Automating Tasks by Using Oracle Scheduler

- Simplifying Management Tasks
- Understanding a Simple Job
- Core Components
- Basic Work Flow
- Persistent Lightweight Jobs
- Using a Time-Based or Event-Based Schedule
- Creating a Time-Based Job
- Creating an Event-Based Schedule

Managing Space

- Space Management Overview
- Block Space Management
- Row Chaining and Migration
- Free Space Management within Segments
- Types of Segments
- Allocating Extents
- Allocating Space
- Creating Tables without Segments

Backup and Recovery Concepts

- Categories of Failures
- Flashback Technology
- Understanding Instance Recovery
- Phases of Instance Recovery
- Tuning Instance Recovery
- Using the MTTR Advisor
- Media Failure
- Configuring for Recoverability

Moving Data

- Moving Data: General Architecture
- Oracle Data Pump
- SQL*Loader
- External Tables

Working with Oracle Support

Using the Support Workbench

Using Enterprise Manager

Working with Oracle Support

My Oracle Support Integration

Researching an Issue

Logging Service Requests

Managing Patches

Applying a Patch Release