

Oracle Database 11g: 2 Day DBA

Duration: 2 Days

What you will learn

The goal of this course is to teach Database Administrators how to install the Oracle Database 11g software and perform the tasks required to manage an Oracle database. Enterprise Manager is used throughout to teach students how to quickly accomplish the required task. Emphasis is on the self-managing capabilities and automatic features of Oracle Database 11g. This course is targeted towards Database Administrators of small to medium sized businesses.

Learn To:

- Install Oracle Database 11g software and create a database
- Use Enterprise Manager Database Control to manage the database
- Manage database storage structures and schema objects
- Administer users and security
- Back up and recover the Oracle database
- Monitor the database and use the Advisors

Audience

- Database Administrators
- Support Engineer
- Technical Administrator
- Technical Consultant

Course Objectives

- Install Oracle Database 11g
- Create a database
- Use Enterprise Manager Database Control
- Configure and manage the Oracle Network environment
- Manage database storage structures
- Administer users and security
- Manage schema objects
- Back up and recover the database
- Monitor the database
- Use the Advisors
- Use the Support Workbench
- Manage the Oracle Database software

Course Topics

Overview of Oracle Database Administration

Structure of a Relational Database

SQL

Components of an Oracle Instance and Database

Basic Tasks of an Oracle DBA

Tools Used to Administer an Oracle Database

Installing Oracle Database and Creating the Database

Using the Oracle Universal Installer to Install the Oracle Database Software

Using DBCA to Create a Database

Using DBCA to Manage Templates

Using Oracle Enterprise Manager Database Control and SQL*Plus

Overview of Administering the Database Using Enterprise Manager

Starting the Enterprise Manager Console Process

Granting Enterprise Manager Administrative Privileges

Setting Enterprise Manager Preferred Credentials

Using SQL*Plus to Access Your Database

Configuring the Oracle Network Environment

Tools for Configuring and Managing the Oracle Network

Using the Enterprise Manager Net Services Administration Page

Managing the Oracle Net Listener with Enterprise Manager

Using the Listener Control Utility

Oracle Net Naming Methods

Using Enterprise Manager to Configure Local Naming

Using Oracle Net Manager to Configure Local Naming

Managing the Oracle Instance

Oracle Instance Management

Starting the Instance and Opening the Database

Viewing and Modifying Initialization Parameters

Managing Memory Components

Viewing the Alert Log

Managing Database Storage Structures

Oracle Database Structures

Multiplexing the Redo Log

Enlarging the Database

Creating, Modifying, and Dropping Tablespaces

Reclaiming Space in Your Tablespace

Managing Undo Data

Using the Undo Advisor to Compute the Minimum Undo Tablespace Size

Administering Users and Security

Overview of Users and Security

Creating, Modifying, and Dropping Users

Unlocking a User Account and Resetting the Password

Setting the Password Policy

Administering Privileges and Roles

Managing Schema Objects

Creating, Modifying, and Dropping Tables

Understanding Data Integrity and Defining Constraints

Viewing the Contents of a Table

Creating and Dropping Indexes

Managing Views

Managing Program Code Stored in the Database

Managing Access to Schema Objects

Loading Data

Performing Backup and Recovery

Backup, Restore, and Recovery Concepts

Configuring the Database for Backup and Recovery

Configuring Backup Settings

Backing Up the Database

Using the Oracle-Suggested Backup Strategy

Performing Backup Maintenance Tasks

Using Oracle Advised Recovery to Recover the Database

Performing Flashback Table and Flashback Drop

Monitoring the Database and Using the Advisors

Monitoring General Database State, Workload, and Performance

Setting Metric Thresholds

Setting Up Direct Alert Notification

Viewing ADDM Performance Analysis and Responding to Findings

Using the SQL Tuning and SQL Access Advisors

Configuring the Automatic SQL Tuning Advisor

Viewing Automatic SQL Tuning Results

Investigating, Reporting, and Resolving Problems

Using the Enterprise Manager Support Workbench

Workflow for Investigating, Reporting, and Resolving a Problem

Performing the Tasks to Investigate and Report a Critical Error

Managing Oracle Database Software

Understanding Software Management and Patch Releases

Patching Oracle Database Software

Using the Database Upgrade Assistant to Upgrade the Database