

Oracle Database 11g: 2 Day DBA - LVC Release 2

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

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Audience

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

Course Objectives

- 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
- Install Oracle Database 11g
- Create a database
- Use Enterprise Manager Database Control
- Configure and manage the Oracle Network environment

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