

Oracle Database 10g: 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 10g 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 tasks. Emphasis is on the self-managing capabilities and automatic features of Oracle Database 10g. This course is targeted towards Database Administrators of small to medium sized businesses.

Audience:

- Database Administrators

Course Objectives:

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

Overview of Oracle Database Administration

- Overview of the Oracle Instance and Database
- Tasks of an Oracle Database Administrator
- Tools Used to Administer an Oracle Database
- Working with Oracle Support
- Searching MetaLink
- Logging TARs

Installing Oracle Software and Creating the Database

- Using the Oracle Universal Installer (OUI)
- Installation Pre-requisites
- Installing the Oracle Software
- Using the Database Configuration Assistant (DBCA) to Create a Database

- Using DBCA to Manage Templates
- Upgrading the Database Using the Database Upgrade Assistant (DBUA)
- Install the Oracle Software Using OUI
- Use the DBCA to Create a Database

Using Oracle Enterprise Manager Database Control and SQL*Plus

- Overview of Administering the Database Using Enterprise Manager (EM)
- Starting the EM Database Console
- Enterprise Manager Navigation
- Granting EM Administrative Privileges
- Start the EM Database Console
- Navigate in EM
- Grant EM Administrative Privileges to Another User

Configuring the Oracle Network Environment

- Network Configuration Overview
- Oracle Net Listener Configuration and Management
- Oracle Net Naming Methods
- Tools for Configuring and Managing the Oracle Network
- Using EM to Configure and Manage the Oracle Network
- Start and Stop the Listener
- Configure Local Naming
- Connect to the Database

Managing the Oracle Instance

- Oracle Instance and Instance Management
- Memory Structures
- Background Processes
- Accessing the Oracle Database
- Initialization Parameters
- Password File
- Starting Up and Shutting Down the Instance
- Viewing the Alert Log and Trace Files

Managing Database Storage Structures

- Oracle Database Structures
- Control Files
- Multiplexing and Archiving the Redo Log Files
- Tablespaces and Data Files
- Creating a New Tablespace
- Managing Undo in the Database
- Using the Undo Advisor

- Use EM to View the Storage Structure of the Database

Administering Users and Security

- Overview of Users and Security
- Creating and Administering Users
- Locking and Unlocking Accounts
- Setting Passwords
- Administering Privileges and Roles
- Create a New User
- Grant Privileges to the User
- Lock and Unlock the User Account

Managing Schema Objects

- Creating Schema Objects
- Create a New Table and View the Attributes and Contents of a Table
- Understanding Data Integrity and Defining Constraints
- Creating and Viewing Attributes of Indexes
- Creating Views
- Loading Data
- Export and Import
- External Tables

Performing Backup and Recovery

- Backup, Restore and Recovery Concepts
- Configuring the Database for Backup and Recovery and Setting Backup Policies
- Configure the ARCHIVELOG Mode and Automatic Archiving
- Configure the Flash Recovery Area
- Retention Policy
- Backing Up the Database Using EM
- Oracle-Suggested Backup Strategy
- Perform a Whole Database Backup and Recovery

Monitoring and Tuning the Database

- Monitoring the Oracle Database
- Self-Monitoring Architecture
- Automatic Workload Repository
- Metrics, Thresholds, and Alerts
- Automatic Database Diagnostics Monitor (ADDM)
- Monitoring and Tuning Usage Model
- Setting Up Notification Rules
- Using the Advisors