
Oracle Database 11g DBA using Enterprise Manager

2 days

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Oracle Database 11g DBA using Enterprise Manager Course Overview

Database Administrators of small sized databases who need to carry out basic system administration tasks on Oracle Database 11g. The course is also suitable for support staff and personnel who are required to carry out occasional administration or troubleshooting tasks. This course is not aimed at delegates who are full time Database Administrators. The focus is on using Enterprise Manager to teach delegates how to manage the database.

Full time Database Administrators should attend the Oracle Database 11g DBA - Part I and Oracle Database 11g DBA - Part II courses.

Skills Gained

The delegate will practice:

- Installing Oracle Database 11g Software
- Creating an Oracle database
- Administering an Oracle database with Enterprise Manager
- Configuring the Oracle Network Environment
- Creating and Managing Database Storage Structures
- Managing Schema Objects
- Managing Users
- Maintaining Database Security
- Backing up, Restoring and Recovering the Database
- Monitoring the Performance of the Database Using Advisors

Who will the Course Benefit?

Database Administrators of small sized databases who need to install Oracle Database 11g software, create, monitor and support a 11g database. The Oracle Database 11g DBA using Enterprise Manager course is also suitable for support staff and personnel who are required to carry out occasional administration or troubleshooting tasks. It aims to give delegates practical experience in installing Oracle Database 11g software, configuring the database, performing basic monitoring of the database and in carrying out basic administration tasks.

Course Objectives

To provide the knowledge and skills needed to successfully manage an Oracle database.

Requirements

Delegates should have an understanding of relational database concepts and basic operating system knowledge. They should also have a working knowledge of Oracle SQL*Plus, this can be gained by attendance on the pre-requisite course.

Pre-Requisite Courses

- Oracle SQL

Follow-On Courses

- Oracle Database 10g DBA - Part I
- Oracle SQL Advanced
- Oracle PL/SQL

Oracle Database 11g DBA using Enterprise Manager Training Course

Course Contents - DAY 1

Course Introduction

- Administration and Course Materials
- Course Structure and Agenda
- Delegate and Trainer Introductions

Session 1: INTRODUCTION

- Oracle product overview
- Oracle Support services
- Relational database concepts
- Oracle architecture
- Database administration tasks
- Database administration tools

Session 2: INSTALLING AND CONFIGURATION OF AN ORACLE DATABASE

- Understand system requirements
- Use Oracle Universal Installer to install Oracle software (OUI)
- Create a database using Database Configuration Assistant (DBCA)
- Delete a database using DBCA
- Use DBCA to manage templates
- Upgrade a database using Database Upgrade Assistant (DBUA)

Session 3: ADMINISTER A DATABASE

- Administrative tools available to a DBA
- Use SQL*Plus and SQL Developer to manage a database
- Administer the database using Enterprise Manager (EM)
- Start and stop the EM Database Console
- EM navigation
- Grant EM administrative privileges to a user

Session 4: CONFIGURE THE ORACLE NETWORK ENVIRONMENT

- Overview of network configuration
- Oracle Net Listener configuration and management
- Oracle Net Naming methods
- Tools for configuring and managing the Oracle network
- Configure local naming for client connections with Net Manager
- Start and stop the Oracle listener
- Configure the listener with EM
- Use TNSPING to test Oracle Net connectivity
- Connect to the database

Session 5: MANAGE AN ORACLE INSTANCE

- Oracle Instance
- Instance management
- Memory structures
- Background processes
- Access an Oracle database
- Initialization parameters
- Password file
- Shutdown the database
- Startup the database
- View alert log and trace files

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Course Contents - DAY 2

Session 6: DATABASE STORAGE STRUCTURES

- Oracle database structures
- Control files
- Redo log and archive redo log files
- Tablespaces and data files
- Create tablespaces
- Manage tablespaces
- Manage undo and use the Undo Advisor

- Use EM to view the storage structure of the database

Session 7: MANAGE USERS

- Database administration accounts
- User accounts
- Create and administer user accounts
- Lock and unlock user accounts
- Change a user's password
- Administer privileges and roles

Session 8: MANAGE SCHEMA OBJECTS

- Create schema objects
- Create a new table
- View the attributes and contents of a table
- Understand data integrity
- Define constraints
- Create indexes
- View index attributes
- Create views
- Create synonyms
- Create sequences

Session 9: BACK UP, RECOVER AND RESTORE A DATABASE

- Oracle backup strategy
- Overview of backup, restore and recovery
- Backup and recovery configuration
- Configure ARCHIVELOG mode
- Backup and recover the database using EM
- Schedule backups
- Configure backup settings
- Configure recovery settings
- Configure catalog settings
- Perform recovery

Session 10: PERFORMANCE MONITORING

- Self-monitoring architecture
 - Monitor an Oracle database
 - Automatic Workload Repository
 - Automatic Database Diagnostics Monitor (ADDM)
 - Use the advisors
 - Set up notification rules
 - Conclusion
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Pre-Requisite Courses

- Oracle SQL
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Follow-On Courses

- Oracle Database 10g DBA - Part I
 - Oracle SQL Advanced
 - Oracle PL/SQL
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