

Oracle Database 19c: Fundamentals for Devs and SysAdmins

Duration:
2 days

Students learn how to use Oracle Database automatic tuning features such as SQL Tuning Advisor, SQL Access Advisor, Automatic Workload Repository and Automatic Database Diagnostic Monitor, and practice these tuning methods. The course focuses on the tuning tasks expected of a DBA: reactive tuning of SQL statements, maintaining SQL statement and operation performance, and tuning the Oracle Database Instance components.

Course Objectives

Upon completion of this course, the student should be able to:

- Install Oracle Database 19c software and create a database.
- Use Enterprise Manager Database Express to manage the database.
- Manage database storage structures and schema objects.
- Administer users and security.
- Backup and recover the Oracle Database.
- Monitor the database and use the Advisors.
- Gain an understanding of the Oracle Database Cloud Service.

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.

Audience

- Administrator
- Database Administrator
- Implementer

Course Topics

1. Introduction

- Course Practice Environment: Security Credentials

2. Introducing the Oracle Database

3. Installing Oracle Database and Creating a Database

- Practice 3-1: Installing the Oracle Database Software and Creating a Database

4. Using Enterprise Manager Database Express and SQL-Based Management Tools

- Practice 4-1: Using Enterprise Manager Database Express
- Practice 4-2: Using SQL*Plus and SQL Developer

5. Configuring the Oracle Network Environment

- Practice 5-1: Using the Listener Control Utility

6. Managing the Database Instance

- Practice 6-1: Using SQL Developer to Shut Down and Restart a Database
- Practice 6-2: Viewing Initialization Parameters

7. Managing the Database Storage Structures

- Practice 7-1: Managing the Database Storage Structures

8. Administering Users and Security

- Practice 8-1: Creating the Flower Shop Owner User
- Practice 8-2: Creating the Flower Shop Clerk Role and User

9. Managing Schema Objects

- Practice 9-1: Creating Application Tables
- Practice 9-2: Loading Data into the Tables

10. Performing Backup and Recovery

- Practice 10-1: Configuring the Database for Backup and Recovery
- Practice 10-2: Performing Backup Operations
- Practice 10-3: Using the Database Flashback Features

11. Monitoring the Database and Using Advisors

- Practice 11-1: Monitoring Database Performance

12. Managing the Software

13. Managing the Software

14. Oracle Database Cloud Service: Overview