

# ORACLE 19C DATABASE ADMINISTRATION I (ORACLE 19C DBA I)

Course Code: 100723

Oracle 19C Database Administration I (Oracle DBA I) is a comprehensive, hands-on course provides concrete information on the design of an Oracle Database instance and database, allowing you to manage your database investment.

In this class, you will learn how to create database storage structures that align with your requirements and business models. You will also learn how to create users and administer databases as well as harden the databases to meet your business requirements. This is the foundational course for learning about Oracle Database and it does not assume prior knowledge or Oracle technologies, however you should have incoming experience working with SQL, and be comfortable with Linux and working from the command line.

## What You'll Learn

This course combines expert lecture, real-world demonstrations and group discussions with machine-based practical labs and exercises. Working in a hands-on learning environment led by our Oracle Certified expert facilitator, students will learn how to:

- How to use tools to access an Oracle Database
- Generate database creation scripts by using DBCA
- How to create a container database (CDB) by using the CREATE DATABASE command
- Learn about Startup and shut down Oracle databases
- Initialization parameter files and initialization parameters
- Tools that are used to administer Oracle Net Services
- How to use the Oracle Connection Manager Control utility to administer Oracle Connection Manager
- How to create a new PDB from the PDB seed.
- Logical and physical storage structures in an Oracle database
- Usage of Oracle Database features that save space
- Explanation of DML and undo data generation
- Learn about general architecture of Oracle Data Pump and SQL\*Loader
- How to use SQL\*Loader to load data from a non-Oracle database (or user files)

## Who Needs to Attend

This hands-on course is geared for experienced DBAs new to Oracle 19c, who can work in Linux and have basic experience with SQL scripting. Incoming students should possess:

- Basic understanding of database principles
- Basic Linux skills, including familiarity with command-line options such as ls, cd, cp, and su. This is NOT a Windows based course.
- Basic SQL scripting skills 19c.

## Prerequisites

Incoming students should possess:

- Basic understanding of Oracle Database principles
- Linux skills, including familiarity with command-line options such as ls, cd, cp, and su
- Beginning to intermediate proficiency with SQL

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CLASSROOM LIVE

\$3,764 CAD

5 Day

## Classroom Live Outline

### **Module 1: Introduction to Oracle Database**

- Oracle Multitenant Container Database
- Oracle Database Instance Configurations
- Database Sharding
- Oracle Database Server

### **Module 2: Accessing an Oracle Database**

- Oracle Database Tools
- Database Tool Choices
- SQL Developer
- Enterprise Manager Database Express

### **Module 3: Creating an Oracle Database by Using DBCA**

- Planning the Database
- Choosing a Database Template
- Configuration Assistant

### **Module 4: Creating an Oracle Database by Using a SQL Command**

- Creating a Container Database
- Enable Pluggable Database

### **Module 5: Starting Up and Shutting Down a Database Instance**

- Starting the Oracle Database Instance
- Shutting Down an Oracle Database Instance
- Opening and Closing PDBs

### **Module 6: Managing Database Instances**

- Investigating Initialization Parameter Files
- Viewing Initialization Parameters by Using SQL\*Plus

- Modifying Initialization Parameters by Using SQL\*Plus
- Viewing Diagnostic Information

#### **Module 7: Oracle Net Services Overview**

- Oracle Net Services Components
- Oracle Net Listener

#### **Module 8: Configuring Naming Methods**

- Configuring the Oracle Network to Access a Database
- Creating a Net Service Name for a PDB

#### **Module 9: Configuring and Administering the Listener**

- Exploring the Default Listener
- Creating a Second Listener
- Connecting to a Database Service Using the New Listener

#### **Module 10: Configuring a Shared Server Architecture**

- Configuring Shared Server Mode
- Configuring Clients to Use a Shared Server

#### **Module 11: Configuring Oracle Connection Manager for Multiplexing and Access Control**

- Oracle Connection Manager Processes
- Filtering Rules
- Session Multiplexing

#### **Module 12: Creating PDBs from Seed**

- Provisioning New Pluggable Databases
- Tools
- Creating a New PDB from PDB\$SEED
- Using OMF or the PDB\_FILE\_NAME\_CONVERT Parameter

#### **Module 13: Using Other Techniques to Create PDBs**

- Cloning Regular PDBs
- Migrating Data from a Non-CDB into a CDB
- Remote PDB
- Cloning Remote PDBs in Hot Mode
- Creating a Proxy PDB

#### **Module 14: Managing PDBs**

- Renaming a PDB
- Setting Parameter Values for PDBs

#### **Module 15: Database Storage Overview**

- Logical and Physical Database Structures
- Tablespaces and Data Files
- Types of Segments
- Monitoring Tablespace Space Usage

#### **Module 16: Creating and Managing Tablespaces**

- Viewing Tablespace Information
- Creating a Tablespace
- Managing Temporary and Permanent Tablespaces

#### **Module 17: Improving Space Usage**

- Managing Space in Tablespaces
- Using Compression
- Enabling the Resumable Space Allocation Feature

#### **Module 18: Managing Undo Data**

- Transactions and Undo Data
- Managing Undo
- Configuring Undo Retention
- Categories of Undo
- Temporary Undo Benefits

#### **Module 19: Creating and Managing User Accounts**

- Creating Common and Local Users
- Creating a Local User for an Application
- Exploring OS and Password File Authentication

#### **Module 20: Configuring Privilege and Role Authorization**

- Granting a Local Role (DBA) to PDBADMIN
- Using SQL\*Developer to Create Local Roles

#### **Module 21: Configuring User Resource Limits**

- Using SQL\*Developer to Create a Local Profile & Users
- Configuring a Default Role for a User

#### **Module 22: Implementing Oracle Database Auditing**

- Enabling Unified Auditing
- Creating Audit Users
- Creating an Audit Policy

#### **Module 23: Introduction to Loading and Transporting Data**

- General Architecture
- Oracle Data Pump
- SQL Loader
- Loading Data into a PDB from an External File
- Moving Data from One PDB to Another PDB
- Transporting a Tablespace

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VIRTUAL CLASSROOM LIVE

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PRIVATE GROUP TRAINING

5 Day

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Date created: 12/10/2025 2:50:09 AM

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