Oracle 19c Database Administration I (DBA I) (TTOR20519)

Category: Software Development & Programming | **Vendor:** Trivera Tech

Duration: 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

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. This training is NOT Official Oracle University training. This is independent, adjustable content that aligns with current topics, skills and tools that participants need to excel in these areas.

About This Course

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. This training is NOT Official Oracle University training. This is independent, adjustable content that aligns with current topics, skills and tools that participants need to excel in these areas.

Who Should 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.

Prerequisites & Entry Requirements

General Prerequisites:

This hands-on course is geared for experienced DBAs new to Oracle 19c. Incoming students should possess:

-Basic understanding of database principles

-Linux skills, including familiarity with command-line options such as ls, cd, cp, and su

-Beginning proficiency with SQL

Learning Outcomes

Upon successful completion of this course, participants will be able to:

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)

Bonus Content / Time Permitting: Explanation of maintenance windows

Bonus Content / Time Permitting: Employ basic monitoring procedures and manage performance

Detailed Course Outline

Introduction to Oracle Database

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

Accessing an Oracle Database

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

Creating an Oracle Database by Using DBCA

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

Creating an Oracle Database by Using a SQL Command

- Creating a Container Database
- Enable Pluggable Database

Starting Up and Shutting Down a Database Instance

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

Managing Database Instances

- Investigating Initialization Parameter Files
- Viewing Initialization Parameters by Using SQL*Plus
- Modifying Initialization Parameters by Using SQL*Plus
- Viewing Diagnostic Information

Oracle Net Services Overview

- Oracle Net Services Components
- Oracle Net Listener

Configuring Naming Methods

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

Configuring and Administering the Listener

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

Configuring a Shared Server Architecture

- Configuring Shared Server Mode

  Configuring Clients to Use a Shared Server

Configuring Oracle Connection Manager for Multiplexing and Access Control

- Oracle Connection Manager Processes
- Filtering Rules
- Session Multiplexing

Creating PDBs

- Creating a New PDB from the PDB Seed
- Cloning Remote PDBs in Hot Mode
- Relocating PDBs

Managing PDBs

- Renaming a PDB
- Setting Parameter Values for PDBs

Database Storage Overview

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

Creating and Managing Tablespaces

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

Improving Space Usage

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

Creating and Managing User Accounts

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

Configuring Privilege and Role Authorization

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

Configuring User Resource Limits

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

Implementing Oracle Database Auditing

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

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

Using External Tables to Load and Transport Data

- Querying External Tables
- Unloading External Tables

Automated Maintenance Tasks Overview

- Automated Maintenance Tasks
- Maintenance Windows
- Predefined Maintenance Windows

Bonus: Managing Tasks and Windows

- Enabling and Disabling Automated Maintenance Tasks
- Modifying the Duration of a Maintenance Window

Bonus: Database Monitoring and Performance Tuning Overview

- Performance Planning Considerations
- Automatic Workload Repository (AWR)
- Advisory Framework

Bonus: Monitoring Database Performance & Processes

- Server-Generated Alerts
- Setting Metric Thresholds
- Performance Monitoring
- Examining the Database Background Processes

Bonus: Tuning Database Memory

- Viewing Memory Configurations

Bonus: Analyzing SQL and Optimizing Access Paths

- Using the Optimizer Statistics Advisor

, Introduction to Oracle Database

Oracle Multitenant Container Database

Oracle Database Instance Configurations

Database Sharding

Oracle Database Server

Accessing an Oracle Database

Oracle Database Tools

Database Tool Choices

SQL Developer

Enterprise Manager Database Express

Creating an Oracle Database by Using DBCA

Planning the Database

Choosing a Database Template

Configuration Assistant

Creating an Oracle Database by Using a SQL Command

Creating a Container Database

Enable Pluggable Database

Starting Up and Shutting Down a Database Instance

Starting the Oracle Database Instance

Shutting Down an Oracle Database Instance

Opening and Closing PDBs

Managing Database Instances

Investigating Initialization Parameter Files

Viewing Initialization Parameters by Using SQL*Plus

Modifying Initialization Parameters by Using SQL*Plus

Viewing Diagnostic Information

Oracle Net Services Overview

Oracle Net Services Components

Oracle Net Listener

Configuring Naming Methods

Configuring the Oracle Network to Access a Database

Creating a Net Service Name for a PDB

Configuring and Administering the Listener

Exploring the Default Listener

Creating a Second Listener

Connecting to a Database Service Using the New Listener

Configuring a Shared Server Architecture

Configuring Shared Server Mode

Configuring Clients to Use a Shared Server

Configuring Oracle Connection Manager for Multiplexing and Access Control

Oracle Connection Manager Processes

Filtering Rules

Session Multiplexing

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

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

Managing PDBs

Renaming a PDB

Setting Parameter Values for PDBs

Database Storage Overview

Logical and Physical Database Structures

Tablespaces and Data Files

Types of Segments

Monitoring Tablespace Space Usage

Creating and Managing Tablespaces

Viewing Tablespace Information

Creating a Tablespace

Managing Temporary and Permanent Tablespaces

Improving Space Usage

Managing Space in Tablespaces

Using Compression

Enabling the Resumable Space Allocation Feature

Managing Undo Data

Transactions and Undo Data

Managing Undo

Configuring Undo Retention

Categories of Undo

Temporary Undo Benefits

Creating and Managing User Accounts

Creating Common and Local Users

Creating a Local User for an Application

Exploring OS and Password File Authentication

Configuring Privilege and Role Authorization

Granting a Local Role (DBA) to PDBADMIN

Using SQL*Developer to Create Local Roles

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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

BONUS CONTENT / TIME PERMITTING

These extra / bonus chapters will be included with your courseware, but only covered in class if time permits

Loading Data

Transporting Data

Using External Tables to Load and Transport Data

Automated Maintenance Tasks: Overview

Managing Tasks and Windows

Database Monitoring and Performance Tuning Overview(Bonus)

Monitoring Database Performance

Database Processes

Managing Memory

Analyzing SQL and Optimizing Access Paths

Additional Course Details

Nexus Humans Oracle 19c Database Administration I (DBA I) (TTOR20519) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Oracle 19c Database Administration I (DBA I) (TTOR20519) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for Oracle 19c Database Administration I (DBA I) (TTOR20519)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 5-day Oracle 19c Database Administration I (DBA I) (TTOR20519) course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Oracle 19c Database Administration I (DBA I) (TTOR20519) training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Oracle 19c Database Administration I (DBA I) (TTOR20519)?

Yes, we provide corporate training, dedicated training, and closed classes for Oracle 19c Database Administration I (DBA I) (TTOR20519). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Oracle DBA; Database

Q: Why choose Nexus Human for Oracle 19c Database Administration I (DBA I) (TTOR20519)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Oracle 19c Database Administration I (DBA I) (TTOR20519) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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