

Oracle Database 12c: Database Administration (DBA) - Day



Length: 15 days

Format: Bootcamp

Time: Day



About This Course

Oracle Database 12c: Database Administration (DBA) training program covers the following courses:

Oracle 12c: Introduction to SQL
Oracle 12c: Administration Workshop
Oracle 12c; Backup and Recovery Workshop

You will learn to:

- * Understand the basic concepts of relational databases ensure refined code by developers.
- * Create reports of sorted and restricted data.
- * Run data manipulation statements (DML).
- * Control database access to specific objects.
- * Manage schema objects.
- * Manage objects with data dictionary views.
- * Retrieve row and column data from tables.
- * Control privileges at the object and system level.
- * Create indexes and constraints; alter existing schema objects.
- * Create and manage an Oracle Database Instance.
- * Create and manage Storage Structures.
- * Configure the Oracle Network Environment.
- * Create and manage users.
- * Monitor the database and manage performance.
- * Learn basic information on backup and recovery techniques.
- * Use the Oracle Support Workbench and My Oracle Support to update your Oracle Database software.
- * Develop backup and recovery procedures to address your business needs.
- * Implement backup and recovery settings and perform backup operations to disk and tape.
- * Employ Oracle Database recovery procedures to recover from media and other failures.
- * Diagnose and repair data failures.
- * Use Flashback Technologies and data duplication to complement backup and recovery procedures.
- * Secure the availability of your database by appropriate backup and recovery strategies.
- * Gain an understanding of the Oracle Database Cloud Service.

Required Exams

1Z0-051: Introduction to SQL/

1Z0-052: Oracle Database 11G Administration Workshop I/

1Z0-053: Oracle Database 11G Administration Workshop II/

Audience Profile

This course is designed for the following audiences:

- * Database Administrators
- * Technical Administrator
- * Support Engineer
- * Technical Consultant

Course Objectives

After completing this course students will be able to:

- * Identify the major structural components of the Oracle Database 12c
- * Create reports of aggregated data
- * Write SELECT statements that include queries
- * Retrieve row and column data from tables
- * Run data manipulation statements (DML) in Oracle Database 12c
- * Create tables to store data
- * Utilize views to display data
- * Control database access to specific objects
- * Manage schema objects
- * Display data from multiple tables using the ANSI SQL 99 JOIN syntax
- * Manage objects with data dictionary views
- * Write multiple-column sub-queries
- * Employ SQL functions to retrieve customized data
- * Use scalar and correlated sub-queries
- * Create reports of sorted and restricted data
- * Back up, restore, and patch DBCS database deployments
- * Describe the DBaaS and on-premises Oracle Database architectures
- * Manage database instances
- * Manage UNDO data
- * Move data between databases
- * Implement basic backup and recovery procedures
- * Monitor and tune database performance
- * Tune SQL to improve performance
- * Manage resources with Oracle Database Resource Manager
- * Create pluggable databases (PDBs)
- * Configure the Oracle network environment

- * Administer user security and implement auditing
- * Create and manage tablespaces
- * Manage storage space
- * Create and manage Database as a Cloud Service (DBCS) database deployments
- * Register databases and manage performance with Enterprise Manager Cloud Control
- * Use the Data Recovery Advisor to diagnose and repair failures.
- * Use Oracle Flashback Technologies to recover from human error.
- * Use Oracle Flashback Technologies to recover from human error.
- * Perform an encrypted database backup and restore.
- * Perform tablespace point-in-time recovery.
- * Describe additional high availability features such as Oracle Data Guard.
- * Gain an understanding of the Oracle Database Cloud Service
- * Describe Oracle Database backup methods and recovery operations that can be used to resolve database failure.
- * Describe the Oracle Database architecture components related to backup and recovery operations.
- * Plan effective backup and recovery procedures.
- * Configure the database for recoverability.
- * Use Recovery Manager (RMAN) to create backups and perform recovery operations.

Outline

- * Introduction
- * Retrieving Data using the SQL SELECT Statement
- * Restricting and Sorting Data
- * Using Single-Row Functions to Customize Output
- * Using Conversion Functions and Conditional Expressions
- * Reporting Aggregated Data Using the Group Functions
- * Displaying Data from Multiple Tables Using Joins
- * Using Subqueries to Solve Queries
- * Using the SET Operators
- * Managing Tables using DML statements
- * Introduction to Data Definition Language
- * Introduction to Data Dictionary Views
- * Creating Sequences, Synonyms, Indexes
- * Creating Views
- * Managing Schema Objects
- * Retrieving Data by Using Subqueries
- * Manipulating Data by Using Subqueries
- * Controlling User Access
- * Managing Data in Different Time Zones
- * Exploring Oracle Database Architecture
- * Managing Database Instances
- * Creating PDBs
- * Configuring the Oracle Network Environment
- * Administering User Security
- * Creating and Managing Tablespaces

- * Managing Storage Space
- * Managing UNDO Data
- * Moving Data
- * Backup and Recovery Concepts
- * Monitoring and Tuning Database Performance
- * SQL Tuning
- * Oracle Database Resource Manager
- * Enterprise Manager Cloud Control
- * Introduction to Oracle Database Cloud Service
- * Creating DBCS Database Deployments
- * Managing DBCS Database Deployments
- * Backing Up and Restoring DBCS Database Deployments
- * Patching DBCS Database Deployments
- * Creating Master Encryption Keys for PDBs
- * Tablespace Encryption by Default
- * Configuring for Recoverability
- * Using the RMAN Recovery Catalog
- * Backup Strategies and Terminology
- * Performing Backups
- * Improving Your Backups
- * Using RMAN-Encrypted Backups
- * Diagnosing Database Failures
- * Restore and Recovery Concepts
- * Performing Recovery, Part 1
- * Performing Recovery, Part 2
- * RMAN and Oracle Secure Backup
- * Performing Tape Backups and Restores
- * Using Flashback Technologies
- * Using Flashback Database
- * Managing Backup Space or Transporting Data
- * Duplicating a Database
- * RMAN Performance and Tuning
- * Backup and Recovery Workshop
- * Oracle Database Cloud Service: Overview