# Oracle Database 12C Essentials

**Z** Zetlan Technologies

# Online Course

# Course Modules

**ORACLE**

### 1. Oracle Database Software

- Describe the key characteristics of a relational database
- Summarize locking behavior in an Oracle database
- Describe the diffncs between data concurrency & data consistency
- Describe the various steps of a database transaction

### 2. Administration & Configuration

- Design a database
- Identify rqurmnts, create the logical dsgn & physical database dsgn
- Install and configure a database
- Grant Enterprise Manager administrative privileges
- Use SQL*Plus and SQL Developer to access your database

### 3. Oracle Database 12c New Features

- Setup a Global Database Service (GDS)
- Define declarative policies for Oracle Data Redaction
- Apply best practices for running the ADDM Advisor

## 4. Maximum Availability Architecture

- Implement the various Data Guard configurations available
- Architectural differences between Data Guard & Active Data Guard
- Implmnt the various replication optns avlbl to the Oracle database
- Create an MAA architecture that leverages Active Data Guard
- Choose an appropriate high availability architecture

## 5. Backup and Recovery

- Explain general best practices and guidelines for backups
- Implement recovery procedures for various failure scenarios
- Use the Data Recovery Advisor for backup and recovery solutions

## 6. Monitoring

- Use Oracle Enterprise Manager to view database storage structures
- Apply different strategies for interacting with the database
- EM Cloud Ctrl & EM Express architecture as it relates to database
- Manage structures used to undo changes made to the database

## 7. Administering Users and Security

- Create and administer users
- Grant privileges to users to perform database operations
- Create and manage roles

## 8. Software Installation and Maintenance

- Install the Oracle database software
- Locate patches for the Oracle database
- Apply best practices to patching the database
- Apply troubleshooting tasks for planned database maintenance
- View & modify the parameters used to config the Oracle instance

## 9. Oracle Data Structures

- Articulate the various schema objects in a relational database
- Perform different index scans and relate them to index types
- Leverage partitioning in an Oracle database
- Use the data dictionary and the dynamic performance views
- Identify the various tools for data movement and analysis

## 10. Oracle Database Instance Architecture

- Define the main components of an Oracle Instance
- Describe the various stages of a database instance
- Articulate the various basic memory structures
- Describe how a block of data is written to the database
- Articulate the mandatory background processes

## 11. Oracle Multitenant Architecture

- Benefits of multitenant architecture for database consolidation
- Create a pluggable database (PDB)
- Articulte the diff btwn a Container database & Pluggable database
- Perform administration tasks on a container database (CDB)
- Manage processes in a CDB
- Manage physical and logical structures in a CDB
- Describe the various storage options for a PDB

## 12. Oracle Network Architecture

- Differences between Shared Server & Dedicated Server architectre
- Describe the Oracle Database listener architecture
- Configure and connect to a database service
- Configure a database listener

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