Oracle 12c DBA Training Syllabus

Introduction (Database Architecture)

* Describe course objectives
* Explore the Oracle 12c database architecture
* Creating Oracle 12c CDB & PDB
* Managing Oracle 12c CDB & PDB

Installing the Oracle Database Software

* Explain core DBA tasks and tools
* Plan an Oracle installation
* Use optimal flexible architecture
* Install software with the Oracle Universal Installer (OUI)

Creating an Oracle Database

* Create a database with the Database Configuration Assistant (DBCA)
* Create a database design template with the DBCA
* Generate database creation scripts with the DBCA

Managing the Oracle Instance

* Start and stop the Oracle database and components
* Use Enterprise Manager (EM)
* Access a database with SQL\*Plus and iSQL\*Plus
* Modify database initialization parameters
* Understand the stages of database startup
* View the Alert log
* Use the Data Dictionary

Managing Database Storage Structures

* Describe table data storage (in blocks)
* Define the purpose of tablespaces and data files
* Understand and utilize Oracle Managed Files (OMF)
* Create and manage tablespaces
* Obtain tablespace information
* Describe the main concepts and functionality of Automatic Storage Management (ASM)

Administering User Security

* Create and manage database user accounts
* Authenticate users
* Assign default storage areas (tablespaces)
* Grant and revoke privileges
* Create and manage roles
* Create and manage profiles
* Implement standard password security features
* Control resource usage by users

Managing Schema Objects

* Define schema objects and data types
* Create and modify tables
* Define constraints
* View the columns and contents of a table
* Create indexes, views and sequences
* Explain the use of temporary tables
* Use the Data Dictionary
* Manage data through SQL
* Monitor and resolve locking conflicts

Managing Undo Data

* Explain DML and undo data generation
* Monitor and administer undo
* Describe the difference between undo and redo data
* Configure undo retention
* Guarantee undo retention
* Use the undo advisor

Implementing Oracle Database Security

* Describe DBA responsibilities for security
* Apply the principal of least privilege
* Enable standard database auditing
* Specify audit options
* Review audit information
* Maintain the audit trail