

Course Outline

Oracle Database 12c: Managing Multitenant Architecture NEW



Duration: 2 days (12 hours)

Learning Objectives:

- Manage the multitenant container database and pluggable databases performance
- Configure resource manager to share resources within a multitenant container database between containers and within a pluggable database
- Implement unified auditing in a multitenant container database and its pluggable databases
- Use Oracle Data Pump, SQL*Loader in pluggable databases
- Monitor the multitenant container database and pluggable databases
- Describe the multitenant architecture
- Create a multitenant container database
- Create a pluggable database using different methods
- Plug a non-CDB into a multitenant container database
- Manage multitenant container databases and pluggable databases
- Administer multitenant container database and pluggable database storage structures
- Create and administer common and local user accounts
- Manage common and local privileges and roles
- Configure multitenant container databases and pluggable databases backup and recovery operations

Target Audience

- Database Administrators
- Database Designers
- Support Engineer
- Technical Administrator
- Data Warehouse Administrator

Prerequisites:

- Knowledge of non-CDB configuration and management
- Working knowledge of SQL and use of PL/SQL packages
- Working knowledge of tools like SQL*Plus or Enterprise Manager Cloud Control
- Oracle Database 12c: Administration Workshop NEW
- Oracle Database 12c: Backup and Recovery Workshop NEW

Topics Covered:

- Introduction to Oracle Database
 - List the features of Oracle Database 12c
 - Discuss the basic design, theoretical, and physical aspects of a relational database

- Categorize the different types of SQL statements
- Describe the data set used by the course
- Log on to the database using SQL Developer environment
- Introduction
 - Course Objectives
 - Course Schedule
 - Tools
- Container and Pluggable Database Architecture
 - Challenges and Benefits
 - Multitenant Architecture
 - Provisioning PDBs
 - Terminology
- CDB and PDB Creation
 - Using Tools
 - Configuring and Creating a CDB
 - Creating PDBs
 - Dropping PDBs
 - Migrating PDBs
- Managing a CDB and PDBs
 - Connection
 - Managing a CDB and PDBs
 - Managing PDBs Open Mode and Settings
 - Configuring CDB and PDBs Initialization Parameters
- Managing Storage in a CDB and PDBs
 - Managing Permanent Tablespaces in CDB and PDBs
 - Managing Temporary Tablespaces in CDB and PDBs
- Managing Security in a CDB and PDBs
 - Managing Common and Local Users
 - Managing Common and Local Privileges
 - Managing Common and Local Roles
 - Understanding Shared and Non-Shared Objects
 - Managing Common and Local Profiles
- Managing Availability
 - Managing Backups
 - Managing Recovery Operations
 - Managing Flashback Database
 - Duplicating PDBs
 - Special Situations and Views
- Managing Performance
 - Managing Performance
 - Managing Resource Allocation
 - Maximizing Consolidated Database Replay
- Miscellaneous
 - Exporting and Importing Data
 - Loading Data
 - Auditing Operations
 - Scheduling Jobs
 - Using Other Products