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Oracle12c DBA Training

Duration: 5 Days – 40 Hours (8 Hours per Day * 5 Days)

DAY- 1

Exploring the Oracle Database Architecture

- Oracle Database Architecture Overview
- Process Architecture and Memory structures
- Logical and physical storage structures

Basics of Multitenant Container Database (CDB)

- Benefits of the multitenant architecture
- Differences between the root container and pluggable database containers
- Structure of the root
- Structure of Pluggable Database (PDB)
- CDB_XXX and DBA_XXX views

Installing Oracle12c Database Software

- Tasks of an Oracle Database Administrator
- Tools Used to Administer an Oracle Database
- Installation: System Requirements
- Oracle Universal Installer (OUI)
- Installing Oracle Database Software

DAY- 2

Configuring and Creating NonCDB/CDB and PDBs

- Planning the Database
- Using the DBCA to Create a Database
- Password Management
- Using the DBCA /Drop a Database
- Tools: DBCA and SQL*Plus

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Branch Office : New Yash Ashoka, Basement Office, Near Borivali Bus Stop, Landmark- Mangala Hindi High School Kopri, Thane (East) – 400603

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- Configuration and creation of CDB
- Exploring the Structure (CDB_XXX views and EM)
- Tools used: SQL Developer, DBCA and SQL*Plus
- Create a new PDB from PDB\$SEED
- Create a PDB from a non-CDB
- Clone a PDB into the same CDB or into another CDB using DB links
- Plug in an unplugged PDB

Managing CDB and PDBs

- Connect to CDB as administrator
- Connect to a PDB using a service name
- Start up a CDB / Shut down a CDB
- Open / Close a PDB (SQL*Plus, srvctl, EM)
- Open / Close all PDBs
- Triggers ON PLUGGABLE DATABASE
- Change PDB state

Managing the Oracle Database Instance

- Start and stop the Oracle database and components
- Access a database with SQLPLUS
- Modify database installation parameters
- Describe the stages of database startup
- Describe database shutdown options
- View the alert log
- Access dynamic performance views

Configuring the Oracle Network Environment

- Use Netca, Netmgr, Manual to create and configure the Listener
- Start and stop the listener
- Setting up tnsnames.ora/listener.ora/sqlnet.ora on Non-Default/Default path
- Troubleshooting listener related connectivity issue

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- Use tnsping to test Oracle Net connectivity
- Identify when to use shared servers and when to use dedicated servers

DAY- 3

Managing Tablespaces, Common and Local Users, Privileges and Roles

- Storage Structures
- Create permanent tablespaces in the root and PDBs
- Manage common and local schemas and users in the root and PDBs
- Manage system and object privileges to common and local grantees granted "commonly" or "locally"
- Manage common and local roles granted "commonly" or "locally"
- Online Datafile Movement

Managing Database Storage Structures/Files

- Storage Structures
- How Table Data Is Stored
- Anatomy of a Database Block
- Actions with Table space like create/drop/offline/online
- Space Management in Tablespace
- Adding/Resizing Data files
- Renaming/Relocating Data file
- Oracle Managed Files (OMF)

Undo Management

- Monitor and administer undo
- Configure undo retention
- Guarantee undo retention

Redo and Archive Log Management

- Identify the importance of checkpoints, redo log files, and archived log file
- Configure ARCHIVELOG mode
- Adding/Dropping Redolog Members/ Groups

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- Changing Archive Destinations

Administering User Security

- Database User Creation/Management
- Predefined Administrative Accounts
- Benefits/Creation of Roles and Predefined Roles and Roles Management

Backup and Recovery Concepts

- Describe the basics of database backup, restore and recovery
- List the types of failure that may occur in an Oracle Database
- Identify the importance of checkpoints, redo log files, and archived log file
- Configure ARCHIVELOG mode

Logical Backup/Recovery

- Data export/import with different Levels Using datapump utility
- Real Time Scenarios like Schema/Tables Refresh Using datapump utility

DAY- 4

Physical Database backups

- Create consistent database backups
- Back your database up without shutting it down/ Hot Backup

Configuring Recovery Manager

- Recovery Manager Features and Components
- Connection Types with RMAN and Additional RMAN Command Line Arguments
- Channel Allocation and Control Options
- Using RMAN to connect to target database in default NOCATALOG mode
- Configuring Persistent Settings for RMAN
- Recovery Catalog Creation for RMAN

Using Recovery Manager

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- RMAN Command Overview like list/report/crosscheck/catalog
- Backup Constraints and Options
- Parallelization of Backup Sets
- Configure/Monitor the Flash Recovery Area for RMAN Backups
- Create Full and incremental backups
- Compressed Backups
- Tags for Backups and Image Copies
- Backing Up Archived Redo Log Files
- Removing expired backup using RMAN

Database Recovery Using RMAN

- Recover from loss of a spfile file using RMAN
- Recover from loss of a control file using RMAN
- Recover from loss of a data file using RMAN
- Restoring Archived Redo Log Files
- Full Database Restore and Recover Using RMAN
- Incomplete/ Point-in-time recovery Using RMAN
- Real Time Scenarios like DB Cloning Using RMAN Backup

DAY- 5

Introduction to Performance Tuning

- Brief overview of Tuning methodology
- General tuning concepts
- Session Management
- Gathering Statistics/Statistics Management
- Index Creation and Rebuilding Indexes
- Coalesce/Shrinking tables/indexes
- Checking Locks/Dead Locks/Blockings Sessions
- Checking Waitevents and Long Running Queries
- Generating Statspack/AWR/ASH/ADDM Reports

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- Conclusion Q & A

For Any Clarification please feel free to contact @ +91 9867328291.

Cheers,

Ambasa S. Ladwa

Ph# +91 9867328291

Ambasa.ladwa@aalokinstitute.com



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