Oracle19c Database Administration Training

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 Oracle19c 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

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

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

Use tnsping to test Oracle Net connectivity

Identify when to use shared servers and when to use dedicated servers

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

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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

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

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Data export/import with different Levels Using datapump utility

Real Time Scenarios like Schema/Tables Refresh Using datapump utility

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

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

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

Conclusion Q & A

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

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