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**Introduction to Oracle Database**

* Brief summary of Database (12C)
* Architecture
* Responsibilities of Database Administrators

**Install Oracle Software**

* Oracle database pre-requisites
* Install Oracle 12c on Linux

**Creating Oracle Database**

* Planning for an Oracle database creation
* Creating Oracle Container Database in 12c using DBCA
* Creating Oracle Container Database in 12c using SQL commands

**Managing Oracle 12c Databases**

* Creating container/pluggable Database
* Understand initialization parameter files
* Startup and Shutdown of a database
* View the database alert log
* Components of an Oracle database and detailed architecture
* Advanced Startup and Shutdown scenarios

**Database Storage**

* Summary about parameter files, network files, physical files (Datafile, Controlfile, Redo log, etc.)
* Creating and managing tablespaces
* How to create datafiles with fixed size and auto-extend option
* Extending the size of a tablespace
* Taking tablespaces Offline or Online
* Making a Tablespace Read-only
* Renaming Tablespaces
* Dropping Tablespaces
* Viewing Information about Tablespaces and Datafiles

**Temporary Tablespace**

* Increasing or Decreasing the size of a Temporary Tablespace
* Tablespace Groups
* Creating a Temporary Tablespace Group
* Assigning a Tablespace Group as the Default Temporary Tablespace

**Managing REDO LOGFILES**

* Adding a New Redo Logfile Group
* Adding Members to an existing group
* Dropping Members from a group
* Dropping Logfile Group
* Resizing Logfiles
* Renaming or Relocating Logfiles
* Clearing REDO LOGFILES
* Viewing Information About Logfiles

**Managing Control Files**

* Multiplexing Control File
* Changing the Name of a Database
* Creating A New Control File

**Managing the UNDO TABLESPACE**

* Switching to Automatic Management of Undo Space
* Calculating the Space Requirements for Undo Retention
* Altering UNDO Tablespace
* Dropping an Undo Tablespace
* Switching Undo Tablespaces
* Viewing Information about Undo Tablespace

**Oracle Networking**

* Introduction to Oracle Net Services component
* Oracle listener configuration (Dynamic and Static Listeners)
* Dynamic Service Registration and Naming Methods configuration in sqlnet.ora
* Oracle database connections from other computers
* Oracle netca (Network Configuration Assistant) tool for configuration file generation
* Oracle netmgr tool for adding database services to a static listener.ora configuration file
* Oracle listener administration and TNS\_ADMIN environment variable
* Best practices in creating database links

**Administering User Security (User Management)**

* Create and manage database user accounts
* Grant and revoke privileges
* Create and manage roles
* Create and manage profiles
* Standard database auditing

**Backup and Recovery**

* Hot Backup/Cold Backup
* Datapumps (Impdp/Expdp)
* Different Scenarios of datapumps

**RMAN (Recovery Manager)**

* Advantages of RMAN method compared to the user-managed method
* Create consistent database backups using RMAN
* Create inconsistent database backups (without shutting it down) using RMAN
* Oracle database backup metadata
* How to create incremental backups using RMAN
* How to clone a database using RMAN backup-based duplication
* How to restore and recover a full database from its RMAN backup
* Use Data Recovery Advisor to perform recovery of control file and redo log file
* Oracle database backup retention policies and backups to Tape/offsite
* How to purge old backups using RMAN

**Patching**

* PSU, CPU patching using opatch utility

**Oracle Database Performance Tuning**

* Handle performance issues in the real world
* Size the Oracle database memory structures for optimal performance
* Oracle database wait events
* Explain Oracle temporary space internals and sizing
* Format SQL trace files using the tkprof utility
* Index Monitoring and internals of index maintenance by Oracle
* Statistics data collection for Oracle database optimizer
* Oracle automatic workload repository (AWR) and AWR reports

**Real-world life of an Oracle DBA**

* Type of Oracle errors: Valid errors and internal exceptions (ORA-00600 and ORA-07445 errors)
* How to work with Oracle Support to create Service Requests
* Parlance and terminology used by Oracle DBAs
* Working with Oracle Forums for issues
* Productivity tools required in the workplace
* Scheduling JOBS and scripts through UNIX/LINUX crontab utility