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ORACLE DBA

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ORACLE DBA Training

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Pre-Requisite : Module : 1 - Linux/UNIX Installation & Commands

CHAPTER 1 : Getting Started with UNIX

- What is UNIX?
- UNIX Architecture [Hardware, Kernel, Shell, Command & Utilities]
- How to Login & Logout in UNIX?
- Changing the Password of Logged in User
- Listing the Files & Directories
- List out the logged in Users
- Modes of Shutdown the Linux/Unix OS

CHAPTER 2 : UNIX File Management & the UNIX VI Editor

- List the files & Hidden files
- Meta characters [* and?]
- Creating the files using various commands
- Display the Content of the files
- Editing the Files using vi Editor
- Counting the Lines, Words and Characters in a file
- Copy, Rename and Delete a file

CHAPTER 3 : UNIX Directories Management

- Home Directory
- Absolute & Relative Pathnames
- Create Directories & Creating Parent Directories
- Copying and Renaming Directories
- Removing Directories
- Changing Directories
- The directories (. dot) and (.. dot dot)

CHAPTER 4 : UNIX File & Directory Permission Setup

- The Permission Indicators
- File Access Modes [Read r, Write w, Execute x]
- Directory Access Modes [Read r, Write w, Execute x]
- Changing the Permissions chmod with Symbolic Permissions
- Changing the Permissions Using chmod with Absolute Permissions
- Changing the Ownership of File & Directory [chown command]
- Changing the Group Ownership of File & Directory [chgrp command]

Module : 4 ORACLE DATABASE ADMINISTRATIONS

CHAPTER 16 : Managing the Control File

- Understanding Control Files
- Multiplexing Control Files
- Backing up Control Files
- Control file related view (V\$Controlfile)

CHAPTER 17 : Managing Online Redo log files

- Redo Log Files & Archiving
- Online & Archived Redo Log Files
- Managing Online Redo Log Files
- Fast Recovery Area (FRA)
- Configuring Database Archive mode
- Views related Log [V\$LOG, V\$LOG_FILE, V\$LOGSTDBY, V\$LOG_HISTORY, V\$RECOVERY_LOG, V\$STANDBY_LOG]

CHAPTER 18 : Datafiles & Tablespace Administration

- What is Table-space?
- Types of Table-spaces [Permanent, Temporary, Undo, Encrypted and Compressed Table-space]
- Small File Table-space & Big File Table-space
- Create, Alter & Drop the Permanent Table-space
- Add & Resize the data files
- Understand Segment space management
- Understand the Extent Management
- Create Big File Table-space
- Configuring the Multi-block Table-space support
- Temporary Table-space & Temporary Tablespace Group
- Undo Table-space & Undo Segments
- Overview of Encrypted & Compressed Table-space
- Table-space related views [DBA_Tablespaces, DBA_data_files, V\$Tablespace, V\$Datafile]

CHAPTER 19 : Temporary Tablespace

- Create Temporary Tablespace
- Adding and Resize the temporary file
- Temporary Table-space Group
- Temporary Table-space views [DBA_Temp_Files,

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V\$Tempfile]

CHAPTER 5 : UNIX User & Group Creation & Set the Environment

- How to create Group?
- How to create User?
- How to modify User?
- The .profile or .bash_profile file
- Setting the Path

CHAPTER 6 : UNIX Variable

- Variable Naming convention
- Defining Variables
- Accessing Value from Variable
- Read-Only Variable
- Unsetting Variables
- Variable Types
- The grep, sort, pg and more commands

Module : 2 ORACLE SQL COMMANDS

CHAPTER 7 : Introduction to SQL Statements

- SQL Fundamentals [Types of SQL Commands (DML, DDL, TCL, DCL) & Description]
- Oracle Data Types & Limitation of Data Types
- Using the SELECT Statement
- Column Alias Name
- Use of DISTINCT Keyword
- Use of DUAL Table
- Use of WHERE clause with Comparison Operators [=, !=, <, <=, >, >=]
- Use of Logical Operators [AND, OR, NOT]
- Use of Other Operators [IN, NOT IN, BETWEEN, EXISTS, IS NULL, IS NOT NULL, LIKE]
- Sorting Rows by using ORDER BY clause
- HAVING Clause
- The CASE Expression
- Using Ampersand Substitution Variables

CHAPTER 8 : Single Row Function

- Single Row Function Fundamental
- Using Single Row Character Function
- Using Single Row Numeric Function
- Using Single Row Date Function
- Using Single Row Conversion Function
- Using GROUP function

CHAPTER 20 : Undo Tablespace

- Create Undo Table-space and add data file to undo Table-space
- Change the Undo Table-space on the Database level
- Managing the Transaction & Undo Data
- Configuring the Undo Table-space

CHAPTER 21 : Oracle Managed File

- Oracle Managed File
- File Naming Convention using OMF
- Creating Table-space with OMF

CHAPTER 22 : User Management & Database Security

- What is Oracle Database Users?
- Types of Database Users on the basis of Authentication [Database & External (OS) User]
- Database 12c Common (C##Username) User & Local User
- Create the Database Common User & Local User
- Alter the Database Common User & Local User
- Types of Privileges [System Level & Object Level Privileges] & Roles
- Grant and Revoke the Privileges from Database Users
- What is profile?
- Assign the Profile to Database User
- Create & Alter the Profile
- Killing the Session of the Connected User

CHAPTER 23 : Oracle Net Service Architecture

- Overview of Oracle Net Services & It's component
- How Oracle Net Service works?
- The Oracle Net Listener
- Types of Listener & Oracle Listener configuration [Dynamic and Static Listeners]
- Oracle *NETCA* (Network Configuration Assistant) utility to Create Listener
- Oracle *NETMGR* (Network Manager) utility to Create & Configure the Listener
- Oracle Dedicated Server Architecture & Oracle Shared Server Architecture
- Oracle Listener Administration and TNS_ADMIN

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environment variable

CHAPTER 9 : Using Join & Sub Queries

- Inner Join (Simple Inner Join)
- Using Table Alias
- Natural Join
- Left Outer Join
- Right Outer Join
- Full Outer Join
- SELF Join
- Single Row Sub Queries
- Multiple-Row Sub Queries

CHAPTER 10 : Using DML Operation & Understanding Transaction Control

- Insert New Records
- Update Existing Records
- Delete Records & TRUNCATE the Table
- Commit
- Rollback
- SAVEPOINT
- Rollback to Save-point

CHAPTER 11 : Creating Table and Constraints

- Database Object Overview
- Creating Tables
- Modifying Table [Adding Column, Dropping Column and Hiding Column]
- Types of Constraints
- Creating Constraint
- Enabling & Disabling Constraint
- Validating Constraints
- Dropping Constraint
- Renaming Table
- Making Table READ ONLY
- Dropping Table

Module : 3 ORACLE DATABASE ARCHITECTURE & INSTALLATION

CHAPTER 12 : Introduction Database & Oracle DBA

- What is Database?
- Why we need of Database?
- List of major Databases and Database vendors
- Tasks of Database Administrator (DBA)
- Database related tools and utilities.

CHAPTER 24 : Oracle Database Link

- Overview about Oracle Database Link
- Type of Database Link [Private & Public Database link]
- How to create Oracle Database Link
- How to Drop the Oracle Database Link

Module : 5 Database Backup Concept (Logical & Physical Backup)

CHAPTER 25 : Oracle Database Logical Backup (Oracle Data Pump)

- Oracle Database Data Movement Utilities:
- Data Pump Export (Export) expdp & exp
- Data Pump Import (Import) impdp & imp
- Oracle Data Pump Components DBMS_DATAPUMP & DBMS_METADATA Package
- Export & Import Table, Schema, Table-space, Database

CHAPTER 26 : Backup, Restore & Recovery using RMAN

- Introduction Backup and Recovery
- Introduction to RMAN (Recovery Manager) Architecture
- Configuring the RMAN Environment
- RMAN Backup Concepts like Backup Sets & Image Copy Backup
- RMAN Control file & Parameter file backup
- RMAN full database & Incremental Backup
- RMAN Backup Retention Policy
- List out the Archive log backup & Database Backups
- RMAN related Views
- Concept of Repository Catalog Database
- Benefit & Use of Repository Database
- RMAN backup CDB & PDB Databases [Backup database root; Backup pluggable database hr_appcont;]

CHAPTER 27 : Oracle Database Flashback & Restore Point

- Overview of Flashback Database, Restore Points and Guaranteed Restore Points
- About Logging for Flashback Database and Guaranteed Restore Points
- Prerequisites for Flashback Database and Guaranteed

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CHAPTER 13 : Oracle Database Instance Architecture & Storage Structure

- What is Oracle Database 11g & 12c?
- What is Database Instance?
- Oracle Database Instance Memory Architecture (SGA & PGA)
- Subcomponents of Shared/System Global Area (SGA)
- Oracle Database Process Architecture [PMON (CLMN), SMON, LREG, CKPT, DBWn, LGWR, MMON...]
- Oracle Database Storage Structure
- Oracle DB Logical Storage Structure [OS Block, Oracle Data block, Extents, Segment, Table-space]
- Oracle DB Physical Storage Structure [Control file, Data files, Online Redo log files, Parameter files]
- Oracle Database 12c Multitenant Architecture
- Oracle Database 12c Container Database [CDB\$ROOT] & Non Container Database
- Oracle Database 12c SEED Database [PDB\$SEED]
- Oracle Database 12c Pluggable database [Application Container Database]

CHAPTER 14 : Oracle Software Installation & Database Creation

- Understand prerequisites for a successful Oracle RDBMS software installation.
- Installation of Oracle 12cR1 database software with the latest patch set.
- Installation of Oracle 12cR2 database software
- Planning for Oracle Database Creation
- Database Creation using DBCA (Database Configuration Assistance) GUI
- Database Creation using script manually with CREATE DATABASE statement
- Exploring the Database components Logical & Physically

CHAPTER 15 : Oracle Database Start & Stop and Parameter

- Oracle Database Startup modes [STARTUP, STARTUP NOMOUNT, STARTUP MOUNT, OPEN, FORCE]
- Oracle Database Open Read Only & Restricted Modes
- Oracle Database Shutdown modes [SHUTDOWN NORMAL, TRANSACTIONL, IMMEDIATE, ABORT]
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Restore Points

- Using Normal and Guaranteed Restore Points
- Using Flashback Database, Table-space, Table

CHAPTER 28 : Transporting Database & Transporting Table-space

- Introduction to Full Transportable Export/Import
- Transporting a Database Using an Export Dump File
- Transporting a Database over the Network
- Transporting Table-spaces between Databases

CHAPTER 29 : Oracle Database RMAN Duplicate Cloning

- Cloning Concept & Consideration
- Cloning Technologies
- Cloning Oracle Home
- RMAN Duplicate Database Cloning

CHAPTER 30 : Oracle Database Disaster Setup (Standby Database/ Data Guard)

- Introduction Oracle Data Guard
- Types of Standby Databases & Data Guard Services
- Difference between Physical, Logical & Snapshot Standby databases
- Oracle Data Guard Architecture
- Processes related to Primary & Standby Databases
- Creating Physical Standby Database using SQL & RMAN Duplicate command
- Open The Physical Standby database to Real Time Apply
- Oracle Data Guard Overview

CHAPTER 31 : Oracle Database Performance Tuning

- How to handle performance issues in the real world
- V\$ dynamic views for performance monitoring and analysis
- How to define size of Oracle database memory structures for optimal performance
- Oracle database wait events
- Explain Oracle temporary space internals and sizing.
- How to trace database sessions using DBMS_MONITOR and DBMS_SESSION packages
- How to format SQL trace files using the tkprof utility
- Index Monitoring and internals of index maintenance by

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<ul style="list-style-type: none"> • Parameters • Initialization Parameters • Static & Dynamic Parameters • System & Session Level Parameters • Parameter files (Initialization Parameter & Server Parameter files) • Changing the Parameter Value • Data Dictionary Table & Views • Understanding Data Dictionary • Static & Dynamic Performance Views [V\$,X\$,....., DBA_, ALL_, USER_] • Using Data Dictionary Views [DICT, V\$FIXED_TABLE] 	<p>Oracle</p> <ul style="list-style-type: none"> • Statistics data collection for Oracle database optimizer • What is Oracle automatic workload repository (AWR) and how to obtain AWR reports <p>CHAPTER 32 : Oracle database Patching & Upgrade</p> <ul style="list-style-type: none"> • Introduction to Oracle versions and how to understand a version • How to upgrade a database from Oracle 12c R1 to Oracle 12c R2 • How to upgrade from one patch-set to another patch-set within the same maintenance release • What are Oracle interim patches? • How to apply SPU patches (Security Patch Updates). • How to apply a Patch Set Update (PSU) • Learn about Oracle Interim Patch Installer (OPATCH)
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