

Oracle DBA Admin

Overview of Oracle Database and Evaluation of Oracle Database

What is Database and Why Oracle Database is so important?

What is the need for a Database?

Type of Database Management System

What is Relational Database Management System?

Popular Relational Database Management System

How to Use RDBMS?

Hands-On Of Using RDBMS

What is Converged Database?

Overview of oracle database 19c and evaluation of database

Journey to automation

Hands on of Installing Oracle Database 19c

Require Personal Laptop with Minimum 8 GB of RAM/VM for each person

Installing Oracle Database 19c

You Can Check by oracle-database-preinstall-19c

Configure sysctl.conf

Installation Packages

Create Group and Users

Configure Listener

Configure Control File

Configure Redo File

Configure Data File

QUIZ

Oracle Database File Management (Check Hands On)

Parameter File

Data File

Environment File

Alter Log File

Listener and TNS File

Control File

Redo Log File

Password File

Database Process Management (Theory and Check By Handson)

Check by SQL Query

Client and Server Processes from SystemProcess Monitor Process (PMON) Listener Registration Process (LREG) System Monitor Process (SMON) Database Writer Process (DBW)

Log Writer Process (LGWR)



Checkpoint Process (CKPT)
Manageability Monitor Processes (MMON and MMNL) Recoverer Process (RECO)

Oracle database Memory Architecture

Introduction to Oracle Database Memory Structures

System global area (SGA)

Program global area (PGA)

User global area (UGA)

Automatic memory management

Database Buffer Cache

Redo Log Buffer

Library Cache

Oracle Database Architecture

Recap and Overview of Oracle DB Architecture

Exam and Quiz

Oracle Real Application Cluster

What is SCAN IP

Cluster Interconnection

Shared Storage

OCR and OLR

Node Eviction

Hands On Guideline for Oracle DB RAC Installation and Checking

QUIZ and EXAM

Oracle Database Automatic Storage Management

What is ASM

Volume Manager and File System

What is ASM Instance

Redundancy in ASM

About Mirroring and Failure Groups

About Oracle ASM Disks

QUIZ

Oracle Database Backup, Restore and Recover

Hot Backup

Cold Backup

Handson of RMAN

Recovery control file handson

Incremental Backup

Handos of Cold Backup and Restore



Oracle Database Administration and Maintenance

Oracle Database User Management (Hands-On)

System Users

Create Users (Demo)

User Privileges

DDL, DML Commands (Demo)

Managing User Role

Viewing User Roles and Priviledges (Demo)

Revoking Roles and Priviledges (Demo)

User Profiles

Tablespace Management (Hands-On)

Assign Tablespace Quotas to Users

Creating Tablespace

Managing the SYSAUX Tablespace

Using Read-Only Tablespaces

Altering and Maintaining Tablespaces

Renaming Tablespaces

Dropping Tablespaces

Specifying Nonstandard Block Sizes for Tablespaces

Migrating the SYSTEM Tablespace to a Locally Managed Tablespace

Temporary Tablespace

Undo Management

Introduction to Automatic Undo Management

Setting the Minimum Undo Retention Period

Sizing a Fixed-Size Undo Tablespace

Managing Undo Tablespaces

Managing Temporary Undo

Undo Space Data Dictionary Views

Redo Log Management (Demo)

What Is the Redo Log?

Creating Redo Log Groups and Members

Forcing Log Switches

Verifying Blocks in Redo Log Files

Clearing a Redo Log File

Redo Log Data Dictionary Views



Control File Management

Guidelines for Control Files
Creating Control Files
Backing Up Control Files
Recovering a Control File Using a Current Copy
Dropping Control Files
Control Files Data Dictionary Views

How to Monitor Oracle Database

Daily Activity Monitoring Activities Some Monitoring Demo EM For Monitoring

Oracle Database in Oracle Cloud (Demo)

What is Oracle Cloud How Oracle DB runs on Oracle Cloud

Oracle Autonomous Database (demo)

What is the mean of Oracle Autonomoud DB? Handson of Autonomous DB

Oracle Database Security and Auditing

What is DB security
How DB Security Breaches?
Protect data by encryption
Auditing of DB
Transparent Data Encryption