

1. Oracle Database Administration Concepts

Prerequisite: Exposure in RDBMS and SQL

Oracle Database Administration Concepts

Introduction & Architecture

- I. Introduction to Oracle Database
- II. Overview of Oracle Grid Architecture
- III. Difference between a cluster and a grid
- IV. Responsibilities of Database Administrators

Creating Oracle Database

- I. Creating Oracle 11g / 10g Database using SQL commands
- I. Creating Oracle Container Database in 12c using DBCA
- II. Creating Oracle Container Database in 12c using SQL commands

Managing Oracle 12c Container Databases

- I. Creating User Accounts and Connecting to Oracle 12c Container and Pluggable Databases

Managing Pluggable Databases in Oracle 12c

- I. Creating Pluggable Database from Seed
- II. Cloning an Existing Pluggable Database
- III. Unplugging and Plugging databases from one CDB to another CDB

Managing Tablespaces And Datafiles

- I. Creating New Tablespaces
- II. Bigfile Tablespaces (Introduced in Oracle Ver. 10g)
- III. To Extend the Size of a tablespace
- IV. To decrease the size of a tablespace
- V. Coalescing Tablespaces
- VI. Taking tablespaces Offline or Online
- VII. Making a Tablespace Read only.
- VIII. Renaming Tablespaces
- IX. Dropping Tablespaces
- X. Viewing Information about Tablespaces and Datafiles
- XI. Relocating or Renaming Datafiles
- XII. Renaming or Relocating Datafiles belonging to a Single Tablespace
- XIII. Procedure for Renaming and Relocating Datafiles in Multiple Tablespaces

Temporary Tablespace

- I. Increasing or Decreasing the size of a Temporary Tablespace
- II. Tablespace Groups
- III. Creating a Temporary Tablespace Group
- IV. Assigning a Tablespace Group as the Default Temporary Tablespace

Diagnosing And Repairing Locally Managed Tablespace Problems

- I. Scenario 1: Fixing Bitmap When Allocated Blocks are Marked Free (No Overlap)
- II. Scenario 2: Dropping a Corrupted Segment
- III. Scenario 3: Fixing Bitmap Where Overlap is Reported
- IV. Scenario 4: Correcting Media Corruption of Bitmap Blocks
- V. Scenario 5: Migrating from a Dictionary-Managed to a Locally Managed Tablespace

Transporting Tablespaces

- I. Procedure for transporting tablespaces
- II. Transporting Tablespace Example

Managing REDO LOGFILES

- I. Adding a New Redo Logfile Group
- II. Adding Members to an existing group
- III. Dropping Members from a group
- IV. Dropping Logfile Group
- V. Resizing Logfiles
- VI. Renaming or Relocating Logfiles
- VII. Clearing REDO LOGFILES
- VIII. Viewing Information About Logfiles

Managing Control Files

- I. Multiplexing Control File
- II. Changing the Name of a Database
- III. Creating A New Control File

Cloning an Oracle Database

Managing the UNDO TABLESPACE

- I. Switching to Automatic Management of Undo Space
- II. Calculating the Space Requirements For Undo Retention
- III. Altering UNDO Tablespace
- IV. Dropping an Undo Tablespace
- V. Switching Undo Tablespaces
- VI. Viewing Information about Undo Tablespace