Oracle Database 19c: Backup and Recovery Workshop

Duration: 5 Days

Course Description:

In this course, students learn how to perform backup and recovery based on the related Oracle Database architecture components. Various backup, failure, restore, and recovery scenarios are provided so that students learn to evaluate their own recovery requirements and develop an appropriate strategy for backup and recovery procedures. This course includes an interactive workshop, with scenarios that provide participants with opportunities to diagnose and recover from several failure situations

Target Audience:

- Administrator
- Architect
- Database Administrator

Course Objectives:

Upon completion of this course, the student should be able to:
- Describe the Oracle Database architecture components related to backup and recovery operations.
- Plan effective backup and recovery procedures.
- Describe Oracle Database backup methods and recovery operations that can be used to resolve database failure.
- Configure the database for recoverability.
- Use Recovery Manager (RMAN) to create backups and perform recovery operations.
- Use the Data Recovery Advisor to diagnose and repair failures.
- Use Oracle Flashback Technologies to recover from human error.
- Perform an encrypted database backup and restore.
- Perform tablespace point-in-time recovery.

Course Outlines:

Backup and Recovery: Overview
  - Backup and Recovery: Overview
  - Understanding Instance Recovery

Backup and Recovery Configuration
  - Backup and Recovery Configuration
  - Configuring Demo
  - Control File Demo
  - Adding a Redo File to Redo Group
  - Enabling ARCHIVELOG mode in Database

Using Recovery Manager (RMAN)
  - Using Recovery Manager (RMAN)
  - Connection the RMAN and a Target

Database Demo
  - Using the sequel and RMAN Demo
  - Managing the setting RMAN Demo

Backup Strategies
  - Backup Strategies

Creating Database Backups
  - Creating Database Backups
  - Fast Incremental Backup
  - Syntex and Clause in RMAN Use for Backups Demo
  - Creating Image Copies for Backups Demo
  - Creating a Whole Backups Container or Noncontainer Database System Demo
  - Creating a PDB Partial Backups
  - Maintaining the Block Change Tracking File Demo
  - Backing up to Control Files to Trace File Demo

Using Optional Backup Features
  - Using Optional Backup Features
  - Compres Backup Demo
  - Creating Duplex Backups Set by Backups Copies Demo
  - Creating Backups of Backups Set Demo

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➢ Creating archival Backups with RMAN Demo
➢ Backing ups Recovery File Demo

Tuning RMAN Backup Performance
➢ Tuning RMAN Backup Performance
➢ Asynchronous I/O Bottlenecks

Recovery Catalog: Overview
➢ Recovery Catalog: Overview

Creating a Recovery Catalog
➢ Creating a Recovery Catalog
➢ Creating a Recovery Catalog Database Demo
➢ Creating a Recovery Catalog Owner Demo
➢ Creating a Recovery Catalog Demo

Managing Target Database Records
➢ Managing Target Database Records
➢ Register a Database in Recovery Catalog Demo
➢ Manually Resynchronizing Recovery Catalog-Demo

Using Stored Scripts
➢ Using Stored Scripts

Creating and Using Virtual Private Catalogs
➢ Creating and Using Virtual Private Catalogs

Restore and Recovery Concepts
➢ Restore and Recovery Concepts
➢ Instance Failure

Diagnosing Failure
➢ Diagnosing Failure
➢ Data Recovery Advisor
➢ Diagnosing Failure Using Oracle Database Recovery Advisor Demo

Performing Complete Recovery
➢ Performing Complete Recovery
➢ Performing Complete Recovery Using RMAN Demo

Performing Point-in-Time Recovery
➢ Performing Point-in-Time Recovery
➢ Architecture Tablespace Point-in-Time Recovery
➢ Performing Incomplete Recovery Using Data Recovery Advisor RMAN Demo

Performing Block Media Recovery
➢ Performing Block Media Recovery
➢ Performing a Recovery Block Media Corruption Demo

Performing Additional Recovery Operations
➢ Performing Additional Recovery Operations

Oracle Flashback Technology: Overview
➢ Oracle Flashback Technology: Overview

Using Logical Flashback Features
➢ Using Logical Flashback Features
➢ Flashback Drop and the Recycle Bin

Using Flashback Database
➢ Using Flashback Database

Using PDB Snapshot
➢ Using PDB Snapshot

Database Duplication Overview
➢ Database Duplication Overview
➢ Demo (Part 01)

Creating a Backup-Based Duplicate Database
➢ Creating a Backup-Based Duplicate Database
➢ Allocating Auxiliary Channels
➢ Demo (Part 02)