

# ODAT-50 - ORACLE DATABASE 19C: BACKUP AND RECOVERY

Categoria: **Database**

## INFORMAZIONI SUL CORSO



Durata:  
5 Giorni



Categoria:  
Database



Qualifica Istruttore:  
Oracle Certified  
Professional



Dedicato a:  
Professionista IT



Produttore:  
Oracle

## OBIETTIVI

- Describe the Oracle Database architecture components related to backup and recovery operations
- Describe Oracle Database backup methods and recovery operations that can be used to resolve database failure
- Plan effective backup and recovery procedures
- 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
- Perform an encrypted database backup and restore
- Perform tablespace point-in-time recovery
- Use Oracle Flashback Technologies to recover from human error

## PREREQUISITI

### Suggested Prerequisite

- Knowledge of SQL and PL/SQL (for DBA use)
- Knowledge of Oracle Database
- Basic knowledge of Linux operating system

### Required Prerequisite

- Oracle Database: Administration Workshop

## CONTENUTI

### 1: Backup and Recovery: Overview

- Backup and Recovery: Overview
- Understanding Instance Recovery

### 2: Backup and Recovery Configuration

- Backup and Recovery Configuration
- Configuring Demo
- Control File Demo
- Adding a Redo file to Redo Group - Demo

- Enabling ARCHIVELOG mode in a Database - Demo
- Practice 2-1: Verifying that the Control File is Multiplexed
- Practice 2-2: Configuring the Size of the Fast Recovery Area
- Practice 2-3: Verifying that the Redo Log File Is Multiplexed
- Practice 2-4: Configuring ARCHIVELOG Mode

### **3: Using Recovery Manager (RMAN)**

- Using Recovery Manager
- Connection the RMAN and a Target Database Demo
- Using the sequel and RMAN Demo
- Managing the Setting RMAN Demo
- Practice 3-1: Configuring the Default Backup Destination
- Practice 3-2: Setting the Date and Time Format for RMAN
- Practice 3-3: Configuring RMAN Settings

### **4: Backup Strategies**

- Backup Strategies

### **5: Creating Database Backups**

- Creating Database Backups
- Fast Incremental Backup
- Syntax 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 Partial PDP Backups Demo
- Maintaining the Block Change Tracking File Demo
- Backing up to Control Files to Trace File Demo
- Practice 2-1: Backing Up the Control File
- Practice 2-2: Verifying Automatic Backups of the Control File and SPFILE
- Practice 2-3: Creating a Whole Database Backup
- Practice 2-4: Creating Partial Database Backups
- Practice 2-5: Configuring Block Change Tracking
- Practice 2-6: Using Incremental Backups
- Practice 2-7: Backing Up Additional Database Files

### **6: 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
- Creating archival Backups with RMAN Demo
- Backing ups Recovery File Demo
- Practice 3-1: Creating an Archival Backup

### **7: Tuning RMAN Backup Performance**

- Tuning RMAN Backup Performance
- Asynchronous I/O Bottlenecks
- Practice 4-1: Monitoring an RMAN Backup Job

## **8: Recovery Catalog: Overview**

- Recovery Catalog: Overview

## **9: Creating a Recovery Catalog**

- Creating a Recovery Catalog
- Configure a Recovery Catalog Database Demo
- Creating a Recovery Catalog Owner Demo
- Creating a Recovery Catalog Demo
- Practice 2-1: Creating a Recovery Catalog Owner
- Practice 2-2: Creating the Recovery Catalog

## **10: Managing Target Database Records**

- Managing Target Database Records
- Register a Database in Recovery Catalog Demo
- Manually Resynchronizing Recovery Catalog - Demo
- Practice 3-1: Registering a Database in the Recovery Catalog
- Practice 3-2: Configuring the Recovery Catalog for Recovery

## **11: Using Stored Scripts**

- Using Stored Scripts
- Practice 4-1: Creating a Stored Script
- Practice 4-2: Executing a Stored Script

## **12: Creating and Using Virtual Private Catalogs**

- Creating and Using Virtual Private Catalogs
- Practice 5-1: Enabling the Virtual Private Database (VPD) Functionality
- Practice 5-2: Creating a Virtual Private Catalog
- Practice 5-3: Backing Up a PDB

## **13: Restore and Recovery Concepts**

- Restore and Recovery Concepts
- Instance Failure

## **14: Diagnosing Failure**

- Diagnosing Failure
- Data Recovery Advisor
- Diagnosing Failure Using Oracle Database Recovery Advisor Demo
- Practice 2-1: Diagnosing and Repairing Database Failure

## **15: Performing Complete Recovery**

- Performing Complete Recovery
- Performing Complete Recovery Using RMAN Demo
- Practice 3-1: Recovering from the Loss of a System-Critical Data File
- Practice 3-2: Recovering from the Loss of an Application Data File

## **16: 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

- Practice 4-1: Recovering from Media Failure: Incomplete Recovery
- Practice 4-2: Recovering a Table from a Backup

### **17: Performing Block Media Recovery**

- Performing Block Media Recovery
- Performing a Recovery Block Media Corruption Demo
- Practice 5-1: Repairing Block Corruption

### **18: Performing Additional Recovery Operations**

- Performing Additional Recovery Operations
- Practice 6-1: Recovering from the Loss of a Parameter File
- Practice 6-2: Restoring the Control File
- Practice 6-3: Recovering from the Loss of All Control Files
- Practice 6-4: Restoring the Password File

### **19: Oracle Flashback Technology: Overview**

- Oracle Flashback Technology: Overview

### **20: Using Logical Flashback Features**

- Using Logical Flashback Features
- Flashback Drop and the Recycle Bin
- Prepare to Using Flashback Technology Demo
- Practice 2-1: Preparing to Use Flashback Technologies
- Practice 2-2: Restoring a Dropped Table
- Practice 2-3: Using Flashback Table

### **21: Using Flashback Database**

- Using Flashback Database
- Enabling Oracle Flashback Database Demo
- Practice 3-1: Enabling Flashback Logging
- Practice 3-2: Performing Flashback Database

### **22: Using PDB Snapshot**

- Using PDB Snapshot

### **23: Database Duplication Overview**

- Database Duplication Overview
- Demo (Part 01)

### **24: Creating a Backup-Based Duplicate Database**

- Creating a Backup-based for Duplicate Database
- Allocating Auxiliary Channels
- Demo (Part 02)
- Practice 2-1: Duplicating a Database (Part I)
- Practice 2-1: Duplicating a Database (Part II)
- Practice 2-2: Duplicating a PDB into an Existing CDB

**Materiale didattico:** Materiale didattico ufficiale Oracle in formato digitale

**Costo materiale didattico:** incluso nel prezzo del corso a Calendario

**Natura del corso:** Operativo (previsti lab su PC)