Oracle Database 12cR2 Backup and Recovery with RMAN

Cursusduur: 4 Dagen   Cursuscode: O12CBR   Trainingsmethode: Virtual Learning

Beschrijving:

Oracle Database 12cR2 Backup and Recovery with RMAN Course Overview

This Oracle Database 12cR2 Backup and Recovery with RMAN course is designed to give an Oracle database administrator practical experience in planning and implementing a backup and recovery strategy using Recovery Manager and Flashback Database. The delegate will learn how to perform backup and recovery operations using RMAN and will learn how to use Flashback features to recover from human error. Exercises and examples are used throughout the course to give practical hands-on experience with the techniques covered.
Versions supported 12cR2,18c,19c.

Virtueel en Klassikaal™

Virtueel en Klassikaal™ is een eenvoudig leerconcept en biedt een flexibele oplossing voor het volgen van een klassikale training. Met Virtueel en Klassikaal™ kunt u zelf beslissen of u een klassikale training virtueel (vanuit huis of kantoor)of fysiek op locatie wilt volgen. De keuze is aan u! Cursisten die virtueel deelnemen aan de training ontvangen voor aanvang van de training alle benodigde informatie om de training te kunnen volgen.

Doelgroep:

Who will the Course Benefit?

The Oracle Database 12cR2 Backup and Recovery with RMAN course is designed for database administrators,data warehouse administrators and technical support staff who are required to plan and implement database backup and recovery strategies for Oracle databases.

Doelstelling:

- Course Objectives

- The Oracle Database 12cR2 Backup and Recovery with RMAN course is designed to provide the skills needed to enable a delegate to plan and implement a backup and recovery strategy in the workplace for Oracle Databases using RMAN and Flashback Database technologies

Vereiste kennis en vaardigheden:

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A working knowledge of Oracle SQL and Oracle Database Administration is required to attend the Oracle Database 12cR2 Backup and Recovery with RMAN course. This can be obtained by attendance on the Oracle SQL course and a suitable database administration course. The ability to describe and use Oracle built-in packages would be advantageous,but is not essential.

This course is run on a Linux operating system,a basic knowledge of UNIX/Linux is recommended but is not essential.

Where Oracle 12cR2,18c and 19c courses are listed in the Pre-requisite and Follow-On Courses section,these are interchangeable.

Vervolgcursussen:

Further Learning

- Oracle Database 19c Install & Upgrade
- Oracle Database 19c DBA Performance Tuning & Management
- Oracle Database 19c Data Guard
- Oracle Database 12cR2,18c and 19c New Features for Administrators

Cursusinhoud:

Oracle Database 12cR2 Backup and Recovery with RMAN Training Course Course Contents - DAY 1

Course Introduction

- Administration and Course Materials
- Course Structure and Agenda
- Delegate and Trainer Introductions

Session 1: BACKUP AND RECOVERY CONSIDERATIONS

- Plan and Implement a Backup and Recovery Strategy
- Define a Disaster Recovery Plan
- Test a Backup and Recovery Plan
- Advantages and Disadvantages of Different Backup Methods
- Backup Methods Comparison
- Data Recovery Strategy
- Backup Strategy
- Validate the Recovery Strategy

Session 2: ORACLE RECOVERY STRUCTURES AND PROCESSES

- Architectural Components of Backup and Restore
- Physical Database Structures
- Logical Database Structures
- Dynamic Performance Views
- Redo Logs,Checkpoints and Archives
- Use the Flash Recovery Area (FRA)
- The Archivelog Modes of a Database

Session 3: FLASHBACK

- Configure and Use Flashback Database
- Monitor Flashback Database
- Flash Recovery Area Space Usage
- Flashback Query
- Retrieve Row History with Flashback Versions Query
- Audit or Recover From Transactions with Flashback Transactions Query
- Flashback Table
- Recover Dropped Tables with Flashback Drop
- The Recycle Bin
- Recover Tables to a Point In Time With Flashback Table
- Flashback Database
- Flashback Restore Points
- Flashback Transaction Backout
- Flashback Data Archive

Session 4: RECOVERY MANAGER OVERVIEW

- RMAN Features and Components
- The sysbackup Privilege

Session 6: BACKUP WITH RMAN

- Channel Allocation
- Types of RMAN Backup
- Recovery Manager Commands
- Performing Backups
- Closed and Open Backups
- Incremental Backups
- Fast Incremental Backups using Block Change Tracking
- Backup File Image Copies
- Oracle Suggested Backup
- Validate Backups
- Listing Backups

Session 7: ADVANCED BACKUP TECHNIQUES

- Create Multisection Backups
- Create Duplexed Backup Sets
- Create Compressed Backups
- Backup the Control File to a Trace File
- Backup Recovery Files
- Backup up ASM Metadata

Session 8: MAINTAIN A RECOVERY CATALOG

- Change the Availability Status of Backups and Copies
- Catalog Backups Made with Operating System Commands
- Generate Backup Reports and Lists
- Cross Check Backups and Copies
- Delete Backups
- Update the Repository after Backup Deletion
- Drop Database and Archival Backups
- Import and Export the Recovery Catalog
- Use Data Dictionary Tables

Session 9: ENCRYPTED RMAN BACKUPS

- Create an Encrypted RMAN Backup
- Transparent Encryption
- Password Encryption
- Use Different Encryption Modes Oracle Database 12cR2 Backup and Recovery with RMAN Training Course Course Contents - DAY 3

Session 10: DATABASE FAILURE DIAGNOSTICS

- The Automatic Diagnostic Repository
- The Data Recovery Advisor
- Understanding RMAN Messages and the Error Stack
- Diagnose Data File Loss
- Recovery with RESETLOGS
- Dealing with Block Corruption

Session 11: OVERVIEW OF RESTORE AND

Session 13: ADVANCED RESTORE AND RECOVER WITH RMAN

- Restore the Server Parameter File
- Restore the Control File
- Re-create the Password File
- Handling Redo Log File Loss
- Restore and Recover the Database on a New Host
- Restore RMAN Encrypted Backups
- Disaster recovery Oracle Database 12cR2 Backup and Recovery with RMAN Training Course Course Contents - DAY 4

Session 14: TABLESPACE POINT IN TIME RECOVERY (TSPITR)

- Tablespace-Point-in-Time Overview
- Tablespace-Point-in-Time Example

Session 15: TRANSPORT DATA

- Transport Tablespaces
- Transport Databases

Session 16: CREATE A DUPLICATE DATABASE WITH RMAN

- Database Duplication
- Duplication Options
- Create Files for the Duplicate Database
- Prepare the Auxiliary Instance for Duplication
- Create a Duplicate Database
- Clone a Running Database
- An Overview of Using Cloud Control to Clone a Running Database
- Targetless Duplication of a Database

Session 17: MONITOR,TUNE AND TROUBLESHOOT BACKUP AND RECOVERY

- Tune Recovery Manager Overview
- Restore and Recovery Performance Best Practices
- Multiplexing in RMAN
- Diagnosing Performance Bottlenecks

Session 18: OVERVIEW OF RMAN AND ORACLE SECURE BACKUP

- Oracle Secure Backup Overview
- Oracle Secure Backup Interfaces
- Oracle Secure Backup Architecture
- Oracle Secure Backup Jobs with RMAN
- Backup the Fast Recovery Area to Tape
- RMAN Backup to Tape
- Overview of Integration with Cloud Control

Session 19: OVERVIEW OF BACKUP AND RESTORE TO TAPE

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- RMAN Commands
- Connect to RMAN
- Specify the Location of RMAN Output
- Start Up and Shut Down a Target Database Using RMAN
- Issue SQL Commands in RMAN   Oracle Database 12cR2 Backup and Recovery with RMAN Training Course Course Contents - DAY 2

Session 5: CREATE AND CONFIGURE A RECOVERY CATALOG

- Create a Recovery Catalog
- Register a Database
- Unregister a Database
- Control File Information
- Virtual Private Catalogs
- Backup a Recovery Catalog
- Use a Flashback Recovery Area with RMAN
- Configure Persistent RMAN Settings
- Set Retention Policies
- Configure Control File Autobackups
- Integrate RMAN with a Media Manager

RECOVERY

- Restore and Recover
- Instance Failure and Crash Recovery
- Media Failure
- An Overview of Complete Recovery
- An Overview of Point in Time Recovery
- Recovery with RESETLOGS

Session 12: BASIC RESTORE AND RECOVER WITH RMAN

- Perform Recovery in Noarchivelog Mode
- Perform Complete Recovery in Archivelog Mode
- Use the Flash Recovery Area for Fast Recovery
- Automatic Tempfile Recovery
- Identify the Database Files to Restore and Recover
- Preview Backups used in Restore Operations
- Apply Incremental Backups to Restore Datafile Image Copies
- The Switch Command
- The Data Recovery Advisor
- Perform Incomplete Recovery (PITR)
- Restore and Recover a tablespace
- Restore and Recover Datafiles
- Recover a Datafile Not Backed Up
- Table Recovery from Backups
- Recover Individual Data Blocks
- The Data Recovery Advisor

- Schedule Backups with Enterprise Manager
- Oracle Suggested Backup Strategy
- Perform Backups to Tape
- Manage Tape Backups
- Perform Recovery from Tape
- RMAN Automatic Failover to Previous Backup

Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

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