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Oracle Data Guard Course Content:35-40hours

Course Outline

Introduction to Oracle Data Guard
- Causes of Data Loss
- Oracle Data Guard Architecture
- Data Protection Modes

Creating a Physical Standby Database by Using SQL and RMAN Commands
- Preparing the Primary Database
- Creating a Physical Standby Database

Overview of the Data Guard Broker
- Oracle Data Guard Broker Features
- Oracle Data Guard Broker Configurations

Using DGMGRL to Create a Data Guard Broker Configuration
- Creating the Broker Configuration
- Adding the Standby Database to the Configuration

Creating a Physical Standby Database by Using Enterprise Manager Grid Control
- Using the Add Standby Database Wizard
- Verifying a Configuration
- Viewing the Data Guard Configuration Status

Monitoring a Data Guard Broker Configuration
- Monitoring the Data Guard Configuration
- Verifying the Configuration
- Using Enterprise Manager Data Guard Metrics
- Viewing Log File Details

Managing Data Protection Modes
- Determining Which Data Protection Mode to Use
- Setting Up Standby Redo Logs

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- Setting the Data Protection Mode

Optimizing a Data Guard Configuration

- Monitoring Configuration Performance
- Optimizing Network Configuration
- Implementing Cascaded Destinations

Using Flashback Database in a Data Guard Configuration

- Using Flashback Database and Real-time Apply
- Using Flashback Database Instead of Apply Delay
- Recovering Data from the Standby Database From a Past Point-in-time

Performing Role Transitions

- Understanding Roles in an Oracle Data Guard Configuration
- Performing a Switchover to a Physical Standby Database
- Performing a Failover to a Physical Standby Database
- Re-enabling a Disabled Database After a Role Transition

Enabling Fast-Start Failover

- Configuring Fast-Start Failover
- Viewing Fast-Start Failover Information
- Performing Role Changes
- Reinstating the Database

Implementing Client Failover Procedures

- Configuring Your Database to Automate Failover for OCI Clients
- Configuring Your Database to Automate Failover for JDBC Clients
- Troubleshooting Client Failover

Creating and Managing a Snapshot Standby Database

- Converting a Physical Standby Database into a Snapshot Standby Database
- Using a Snapshot Standby Database
- Monitoring a Snapshot Standby Database

Using Oracle Active Data Guard

- Opening a Physical Standby Database in Read-only Mode
- Enabling Block Change Tracking on a Physical Standby Database for Fast Incremental Backups

Creating a Logical Standby Database

- Preparing to Create a Logical Standby Database
- Creating a Logical Standby using SQL/RMAN Commands
- Creating a Logical Standby using Grid Control

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- Managing SQL Apply Filtering
- Performing Rolling Upgrades

Managing the Data Guard Configuration

- Viewing Data Guard Diagnostic Information
- Troubleshooting

Backup and Recovery Considerations in an Oracle Data Guard Configuration

- Using RMAN to Back Up and Restore Files in a Data Guard Configuration
- Offloading Backups to a Physical Standby Database
- Recovering a Corrupted Datafile on the Primary Database
- Backing Up a Logical Standby Database

Upgrading Databases in a Data Guard Configuration

- Using SQL Apply to Upgrade the Oracle Database
- Using a Physical Standby for Rolling Upgrades
- Upgrading an Oracle Data Guard Release 10.n Configuration to Release 11.1

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