



Oralogic Education Systems

Next Generation IT Education Systems

Introduction:

Oracle Data Guard ensures high availability, data protection, and disaster recovery for enterprise data. Data Guard provides a comprehensive set of services that create, maintain, manage, and monitor one or more standby databases to enable production Oracle databases to survive disasters and data corruptions. Data Guard maintains these standby databases as transnationally consistent copies of the production database. Then, if the production database becomes unavailable because of a planned or an unplanned outage, Data Guard can switch any standby database to the production role, minimizing the downtime associated with the outage. Data Guard can be used with traditional backup, restoration, and cluster techniques to provide a high level of data protection and data availability.

With Data Guard, administrators can optionally improve production database performance by offloading resource-intensive backup and reporting operations to standby systems.

Oralogic Education Systems provide quality education in this key technology. We have most experienced professional who have extensive experience in managing and configuring Oracle Database software in most mission critical environments.

Course Contents:

Introduction to Oracle Data Guard

- Describe the basic components of Oracle Data Guard
- Explain the differences between physical and logical standby databases
- Explain the benefits of implementing Oracle Data Guard

Creating a Physical Standby Database by Using SQL and RMAN Commands

- Configure the primary database and Oracle Net Services to support the creation of the physical standby database and role transition
- Create a physical standby database by using the DUPLICATE TARGET DATABASE FOR STANDBY

FROM ACTIVE DATABASE RMAN command

- Oracle Data Guard Broker: Overview
- The Data Guard broker architecture
- Data Guard broker components
- Benefits of the Data Guard broker
- Data Guard broker configurations
- How to use Enterprise Manager to manage your Data Guard configuration
- How to invoke DGMGRL to manage your Data Guard configuration

Creating a Data Guard Broker Configuration

- Create a Data Guard broker configuration
- Manage the Data Guard broker configuration

Creating a Physical Standby Database by Using Enterprise Manager Grid Control

- Use Enterprise Manager to create a broker configuration
- Use Enterprise Manager to manage the broker configuration

Creating a Logical Standby Database

- Determine when to create a logical standby database
- Create a logical standby database
- Manage SQL Apply filtering

Configuring Data Protection Modes

- Describe the data protection modes
- Change the data protection mode of your configuration

Monitoring a Data Guard Configuration

- Use Enterprise Manager Grid Control to monitor the configuration
- Use DGMGRL to view the configuration status

Optimizing a Data Guard Configuration

- Monitor configuration performance
- Optimize redo transport for best performance
- Optimize SQL Apply

Using Flashback Database in a Data Guard Configuration

- Explain the advantages of using Flashback Database in a Data Guard configuration
- Configure Flashback Database

Performing Role Transitions

- Explain the two database roles
- Perform a switchover
- Perform a failover

Enabling Fast-Start Failover

- Configure fast-start failover
- View information about the fast-start failover configuration
- Manage the observer
- Perform role changes in a fast-start failover configuration
- Manually reinstate the primary database

Creating and Managing a Snapshot Standby Database

- Create a snapshot standby database to meet the requirement for a temporary, updatable snapshot of a physical standby database
- Convert a snapshot standby database back to a physical standby database

Using Oracle Active Data Guard

- Use Real-time Query to access a physical standby database
- Enable RMAN block change tracking for a physical standby database

Performing Backup and Recovery in an Oracle Data Guard Configuration

- Use RMAN to back up and restore files in a Data Guard configuration
- Offload backups to a physical standby database
- Recover your primary database by using a file from the physical standby database

Managing Client Connectivity

- Configure client connectivity in a Data Guard configuration
- Implement failover procedures to automatically redirect clients to a new primary database

Patching and Upgrading Databases in a Data Guard Configuration

- By using traditional upgrade methods
- By performing rolling upgrades

Oracle DataGuard 12cR2 New Features Highlights

Note: Above topics include hands on training exercises. In addition to above topics The Platform (Linux O/S, Oracle Data Guard) Redoaness is also included which covers –

- Install oracle linux 6.x
- Install oracle database EE binaries 11.2.x
- deploy oracle disaster recovery environment
- disaster recovery drills

Other Information:

Course #	DBADG01
Instructor	Industry Professional
Course	Oracle Data Guard
Version	Oracle11g, 12c
Duration	2 Weeks
Class Duration	3 Session a week, 2 hours
Medium	In-Class, Online