

Oracle Golden Gate Course Content:35-40hours

Course Outline

1. Oracle GoldenGate 11gR1 Introduction

- Oracle GoldenGate Features and Functionality
- Oracle Middleware for Business Intelligence
- Oracle GoldenGate High Availability and Disaster Tolerance Solutions
- Oracle GoldenGate Real-time Data Integration Solutions

2. Oracle GoldenGate: Overview

- Oracle GoldenGate Functionality and Components
- Supported Databases and Platforms
- Oracle GoldenGate Product Line

3. Oracle GoldenGate Architecture

- Oracle GoldenGate Process Groups
- Change Capture and Delivery (with and without a Data Pump)
- Initial Data Load
- Contrasting Batch and Online Operation
- Oracle GoldenGate Checkpointing
- Commit Sequence Number (CSN)
- Oracle GoldenGate Files

4. Installing Oracle GoldenGate

- Installing Oracle GoldenGate on Linux
- Preparing the Operating System
- Running GoldenGate Commands from the GGSCI Prompt
- Using Obey Files and OS Shell
- Get Help Information on GGSCI Commands
- Types of GGSCI Commands Available

5. Configuration Overview and Preparing the Environment

- High-Level Configuration Steps
- Configuring and Starting the Manager Process
- Generating a Source Definitions File
- Preparing a Source Database for Transaction Capture

6. Configuring Change Capture

- Extract Process
- Marking Tables with TRANDATA
- Configuring Extract to Access Logs on Oracle ASM
- Configuring and Starting an Extract Process
- Adding Local and Remote Trails
- Configuring and Starting an Extract Data Pump

7. Configuring Initial Load

- Oracle GoldenGate Initial Load Methods
- Variety of Database-Specific Methods
- Advantages of Oracle GoldenGate Methods
- Configuring an Initial Load Using Oracle GoldenGate

8. Configuring Change Delivery

- Replicat Process
- Adding, Configuring, and Starting a Replicat Process
- Avoid and Handle Collisions Between Changes and the Initial Load Data

9. Extracting Trails and Files

- Extract Trails vs. Files
- Investigating Different Formats
- Viewing Extract Trails and Files with Logdump
- Reversing the Sequence of Operations in an Extract Trail or File to Back Out Changes

10. Working with Parameters

- Editing Parameter Files
- Contrasting GLOBALS with Process Parameters
- Commonly-Used Parameters for GLOBALS, Manager, Extract, and Replicat

11. Using Data Selection and Filtering

- Selecting and Filtering Data for Replication
- Mapping Columns Between Different Schemas
- Using Built-In Functions
- Using SQLEXEC to Interact Directly with a Database

12. Using Additional Transformation Concepts

- Creating and Invoking Macros
- Setting and Retrieving User Tokens
- Running User Exits in GoldenGate Processes
- Replicating Oracle Sequences
- **13. Configuration Options**
- Using BATCHSQL to Speed Delivery
- Data Compress Across the Network
- Enabling Message, Trail, and Password Encryption
- Using Event Records to Automatically Trigger Actions

14. Configuring Bidirectional Replication

- Bidirectional Configuration
- Detecting and Avoid Loops
- Avoiding, Detecting, and Handling Conflicts
- Handling Identity Types

15. Setting Up DDL Replication

- Concept of DDL Replication
- Requirements for Oracle DDL Replication
- GoldenGate Options for DDL Replication
- DDL String Substitution

16. Tuning and Troubleshooting

- Controlling Command Permissions
- Managing Trail Files
- Automating Process Setup
- Restarting Oracle GoldenGate
- Handling TCP/IP Errors
- Using Reporting and Statistics
- Monitoring Processes, Lags, and Error Messages
- Features of GoldenGate Management Pack

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