

Oracle GoldenGate Training

Chapter 1 Introduction to Oracle GoldenGate

- Oracle GoldenGate supported processing methods and databases
- Overview of the Oracle GoldenGate architecture
- Overview of process types
- Overview of groups
- Overview of the Commit Sequence Number (CSN)

Chapter 2 Installing Oracle GoldenGate

- Downloading Oracle GoldenGate
- Setting ORACLE_HOME and ORACLE_SID
- Specifying Oracle variables on UNIX and Linux systems
- Specifying Oracle variables on Windows systems
- Setting library paths for dynamic builds on UNIX
- Preparing to install Oracle GoldenGate within a cluster
- Installing as the Oracle user
- Supported Oracle cluster storage
- Deciding where to install Oracle GoldenGate binaries and files in the cluster
- Installing Oracle GoldenGate on Linux and UNIX
- Installing Oracle GoldenGate on Windows
- Installing Oracle GoldenGate into a Windows Cluster
- Installing the Oracle GoldenGate files
- Specifying a custom Manager name
- Installing Manager as a Windows service
- Integrating Oracle GoldenGate into a cluster
- General requirements in a cluster
- Adding Oracle GoldenGate as a Windows cluster resource
- Installing support for Oracle sequences

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Chapter 3 Configuring Manager and Network Communications

- Overview of the Manager process

- Assigning Manager a port for local communication
- Maintaining ports for remote connections through firewalls
- Choosing an internet protocol
- Recommended Manager parameters
- Creating the Manager parameter file
- Starting Manager
- Stopping Manager

Chapter4 Getting started with the Oracle GoldenGate process interfaces

- using the GGSCI commandline interface
- using UNIX batch and shell scripts
- using Oracle GoldenGate parameter files
- Supported characters in object names
- Specifying object names in Oracle GoldenGate input

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Chapter5 Using Oracle GoldenGate for live reporting

- Overview of the reporting configuration
- Considerations when choosing a reporting configuration
- Creating a standard reporting configuration
- Creating a reporting configuration with a data pump on the source system
- Creating a reporting configuration with a data pump on an intermediary system
- Creating a cascading reporting configuration

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Chapter6 Using Oracle GoldenGate for realtime data distribution

- Overview of the data distribution configuration

- Considerations for a data distribution configuration
- Creating a data distribution configuration

Chapter7 Configuring Oracle GoldenGate for realtime data warehousing

- Overview of the data warehousing configuration
- Considerations for a data warehousing configuration
- Creating a data warehousing configuration

Chapter8 Configuring Oracle GoldenGate to maintain a live standby database

- Overview of a live standby configuration
- Considerations for a live standby configuration
- Creating a live standby configuration
- Moving user activity in a planned switchover
- Moving user activity in an unplanned failover

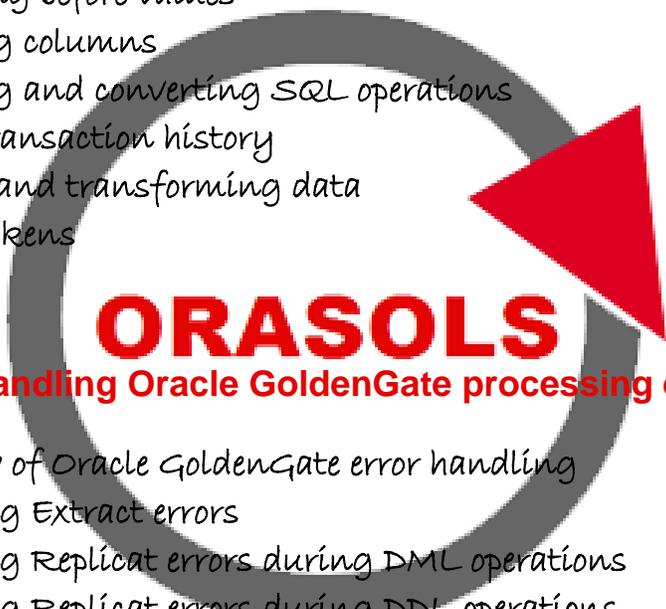
Chapter9 Configuring Oracle GoldenGate for activeactive high availability

- Overview of an activeactive configuration
- Considerations for an activeactive configuration
- Preventing data looping
- Creating an activeactive configuration
- Managing conflicts
- Handling conflicts with the Oracle GoldenGate CDR feature
- Configuring Oracle GoldenGate CDR
- CDR example : All conflict types with USEMAX, OVERWRITE, DISCARD
- CDR example : UPDATEROWEXISTS with USEDELTA and USEMAX
- CRD example : UPDATEROWEXISTS with USEDELTA, USEMAX, and IGNORE

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Chapter10 Mapping and manipulating data

- Limitations of support
- Parameters that control mapping and data integration
- Mapping between dissimilar databases
- Deciding where data mapping and conversion will take place
- Globalization considerations when mapping data
- Mapping columns
- Selecting rows
- Retrieving before values
- Selecting columns
- Selecting and converting SQL operations
- Using transaction history
- Testing and transforming data
- Using tokens



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Chapter11 Handling Oracle GoldenGate processing errors

- Overview of Oracle GoldenGate error handling
- Handling Extract errors
- Handling Replicat errors during DML operations
- Handling Replicat errors during DDL operations
- Handling TCP/IP errors
- Maintaining updated error messages
- Resolving Oracle GoldenGate errors

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Chapter12 Associating replicated data with metadata

- Configuring Oracle GoldenGate to assume identical metadata
- Configuring Oracle GoldenGate to assume dissimilar metadata

- Configuring Oracle GoldenGate to use a combination of similar and dissimilar definitions

Chapter13 Configuring online change synchronization

- Overview of online change synchronization
- Configuring change synchronization to satisfy a specific topology
- Naming conventions for groups
- Creating a checkpoint table
- Creating an online Extract group
- Creating a trail
- Creating a parameter file for online extraction
- Creating an online Replicat group
- Creating a parameter file for online replication
- Controlling online processes
- Deleting a process group

Chapter14 Running an initial data load

- Overview of initial data load methods
- Using parallel processing in an initial load
- Prerequisites for initial load
- Loading data with a database utility
- Loading data from file to Replicat
- Loading data from file to database utility
- Loading data with an Oracle GoldenGate direct load
- Loading data with a direct bulk load to SQL*Loader
- Loading data with Teradata load utilities

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Chapter15 Customizing Oracle GoldenGate processing

- Overview of custom processing

- Executing commands, stored procedures, and queries with `SQLEXEC`
- Using Oracle GoldenGate macros to simplify and automate work
- Using user exits to extend Oracle GoldenGate capabilities
- Using the Oracle GoldenGate event marker system to raise database events

Chapter16 Monitoring Oracle GoldenGate processing

- Overview of the Oracle GoldenGate monitoring tools
- Using the information commands in GGSCI
- Monitoring an Extract recovery
- Monitoring lag
- Monitoring processing volume
- Using the error log
- Using the process report
- Using the discard file
- Using the system logs
- Reconciling time differences
- Sending event messages to a NonStop system
- Getting more help with monitoring and tuning

Chapter17 Performing administrative operations

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- Overview of administrative operations
- Performing application patches
- Adding process groups
- Initializing the transaction logs
- Shutting down the system
- Changing database attributes
- Changing the size of trail files

Chapter18 Undoing data changes with the Reverse utility

- Overview of the Reverse utility

- Reverse utility restrictions
- Configuring the Reverse utility
- Creating process groups and trails for reverse processing
- Running the Reverse utility
- Undoing the changes made by the Reverse utility

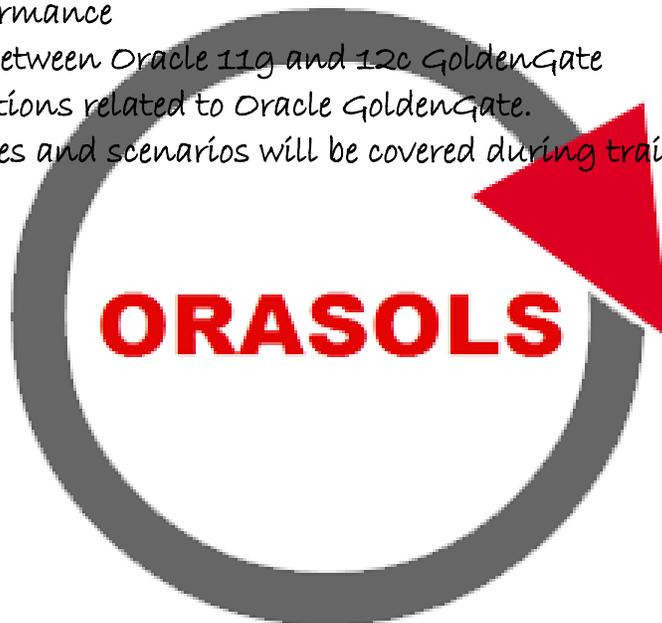
- **What's New in Oracle GoldenGate 12c?**

Oracle GoldenGate 12c offers tighter integration with the Oracle Database and technologies, support for additional heterogeneous systems, and improved performance

Difference in between Oracle 11g and 12c GoldenGate

Interview questions related to Oracle GoldenGate.

Real time issues and scenarios will be covered during training.



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