

ORACLE GOLDEN GATE COURSE CONTENTS:

INTRODUCTION TO ORACLE GOLDEN GATE

- Oracle Golden Gate Replication Solutions for Live Reporting, Real Time Data Warehousing, Live Standby Database, and High Availability.
- Supported databases and platforms
- Advantages of Oracle Golden Gate

INSTALLING ORACLE GOLDEN GATE

- Downloading the software from Oracle website.
- Installing Oracle Golden Gate
- Explaining Subdirectories
- Preparing Oracle 11g database for data replication

ORACLE GOLDEN GATE TECHNOLOGY AND ARCHITECTURE

- Understanding Golden Gate Components: Processes and Files
- Process Data Flow
- Golden Gate Architecture
- Design Considerations

CONFIGURING & PREPARING THE ENVIRONMENT

- Configuring the Manager process
- Describing the Manager Parameters
- Starting the Manager process
- Configuring GLOBALS file

DATA DEFINITIONS FILE

- Overview of Data Definitions File
- When to use Data Definitions Files
- Types of Data Definitions File
- Configuring Data Definitions File

CONFIGURING CHANGE CAPTURE DELIVERY – WITH AND WITHOUT DATA PUMP

- Preparing a source database for transaction capture
- Describing the high-level configuration steps
- Explaining change capture and delivery with a data pump

- Explaining change capture and delivery without a data pump
- Comparing batch and online operation
- Explaining Oracle Golden Gate Checkpoints
- Describing the Extract process
- Configuring and starting an Extract process
- Adding local and remote trails
- Configuring and starting a data pump
- Explaining the Replicate process
- Configuring a Replicate process
- Starting a Replicate process
- Describing GGSCI commands
- Describing Extract trails and files

CONFIGURING CHANGE CAPTURE DELIVERY – DDL REPLICATION AND INITIAL DATA LOAD

- Overview of DDL synchronization
- Preparing a source database for transaction capture
- Describing the high-level configuration steps
- Configuring Extract and Replicat for DDL replication
- Configuring Initial Data Load using Oracle Golden Gate Extract and Replicat

ORACLE GOLDEN GATE COMMANDS

- Running Golden Gate commands from the GGSCI prompt
- Running Golden Gate commands from the obey files
- Running Golden Gate commands from the OS shell
- Identifying the types of GGSCI commands available

MANAGING ORACLE GOLDEN GATE

- Managing trail files
- Automating process startup
- Using reporting and statistics

GOLDENGATE SECURITY FEATURES

- Using message, trail and password encryption
- Controlling command permissions – CMDSEC file

ADVANCED CONFIGURATION: MAPPING AND MANIPULATING DATA

- Overview of data mapping and manipulation
- Deciding where data mapping and conversion will take place
- Data Selection and Filtering
- Data Transformation
- Using built-in functions
- Using SQLEXEC to interact directly with a database

TROUBLESHOOTING ORACLE GOLDEN GATE

- Troubleshooting process startup failures
- Troubleshooting slow startup
- Troubleshooting Extract problems
- Troubleshooting missed transactions
- Using the discard file
- Using SHOWSYNTAX to view Replicat SQL statements
- Using the Logdump utility

GOLDENGATE PERFORMANCE TUNING

- Using BATCHSQL to speed delivery
- Using RANGE Function
- Using parallel Replicat groups on a target system