Data Integration and ETL with Oracle Warehouse Builder: Part 2

Duration: 2 Days

What you will learn

Participants learn to use Warehouse Builder to define both relational dimensional models and multidimensional models, deploy a single logical model to multiple physical targets using multiple named configurations and how to handle slowly changing dimensions. Extraction of data from non-Oracle sources using code templates, usage of the Warehouse Builder ETL and data integration features of the Enterprise ETL Option of the Oracle database are discussed. Participants also use Warehouse Builder to define both relational dimensional models and multidimensional models. This functionality requires the Oracle Warehouse Builder Enterprise ETL/ODI EE option.

Learn To:

Use Warehouse Builder to define both relational dimensional models and multidimensional models
Deploy a single logical model to multiple physical targets using multiple named configurations
Handle slowly changing dimensions
Extract data from non-Oracle sources using code templates
Use the Warehouse Builder ETL and data integration features of the Enterprise ETL Option of the Oracle database
Use Warehouse Builder to define both relational dimensional models and multidimensional models

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Audience

Business Intelligence Developer
Data Warehouse Administrator
Data Warehouse Analyst
Data Warehouse Developer
Developer
Support Engineer

Related Training

Required Prerequisites

Experience in basic use of Oracle RDBMS, including SQL DDL and DML, and PL/SQL

Data Integration and ETL with Oracle Warehouse Builder: Part 1

Suggested Prerequisites

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Introduction to Business Intelligence Products (eStudy)

Oracle BI Warehouse Builder 11g R2: Getting Started (OBE)

Oracle Database 11g: Data Warehousing Fundamentals

Course Objectives

Define relational dimensional and multidimensional models

Deploy a logical model to multiple physical configurations

Create and manage a type 2 slowly changing dimension

Utilize the Warehouse Builder ETL and data integration features of the Enterprise ETL Option of the Oracle database

Create near-realtime and trickle-feed mappings

Use code templates in mappings to extract data from non-Oracle sources

Course Topics

Administrative Tasks in Warehouse Builder
Enterprise ETL License Extends Core In-Database ETL
Multiple Named Configurations: Why and How
Using Multiple Named Configurations
Using Configuration Templates
Steps for Setting Up OWB in a RAC Environment
Creating an OWB Schedule

Managing Metadata
Using Lineage and Impact Analysis Diagrams
Invoking Lineage and Impact Analysis
Using the Change Propagation Dialog
User-Defined Properties, Icons, and Objects
Using Pluggable Mappings
Advanced Activity Types in Process Flows
Native Relational Object Support
Heterogeneous Predefined SQL Transformations

Accessing Non-Oracle Sources
Extensible Framework of OWB 11g Release 2
Benefits of Extensible Code Templates
Location of Seeded Code Templates
Creating New Code Templates
Defining New Integration Platforms in OWB

Designing Mappings with the Oracle Data Integration Enterprise Edition License
Traditional Versus Code Template (CT) Mappings

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Execution Units in a CT Mapping
Execution View Versus Logical View
Assigning a Code Template to an Execution Unit
Convert a Classic Mapping to a CT Mapping That Utilizes Data Pump
CT Mappings Deploy to Control Center Agents

Right-Time Data Warehousing with OWB
What Is Meant by Real-Time Data Warehousing
What Refresh Frequency Does OWB Support
Building a Trickle Feed Mapping
Using Advanced Queues in Trickle Feed Mappings
Using CDC Code Templates in Mappings for Change Data Capture
Starting CDC Capture Process

Defining Relational Models
Defining Dimensions Using Wizards and Editors
Defining Dimension Attributes, Levels, and Hierarchies
Binding Dimension Attributes to the Implementation Table
Using the Create Time Dimension Wizard
Defining a Cube
Specifying a Cube's Attributes and Measures
Designing Mappings Using Relational Dimensions and Cubes

More Relational Dimensional Modeling
Initial Versus Incremental Data Warehouse Loads
Updating Data and Metadata
Capturing Changed Data for Refresh
Setting Loading Properties
Choosing the DML Load Type
How OWB Manages Orphans
Support for Cube-Organized Materialized Views
Creating a Type 2 Slowly Changing Dimension

Modeling Multidimensional OLAP Dimensions and Cubes
What Is OLAP
Multidimensional Data Types
Analytic Workspace
Dimensional Modeling Using OWB
OWB Calculated Measures
Differences Between OLAP and Relational Loading

Appendix: Configuring Warehouse Builder in RAC Environments
Oracle Real Application Clusters (RAC)
Control Center Service Failover on RAC
Installing OWB on Real Application Clusters
Useful Diagnostics for OWB RAC Problems

Appendix: Service-Oriented Architectures
What Are Services
Publishing a Web Service
Methods for Creating a Mapping That Uses Web Services
Consuming a Web Service

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Accessing Web Services Securely

Appendix: Importing COBOL Copybooks
Flexible File Import Options in OWB 11g Release 2
Enhanced Support for COBOL Copybook Import
Selecting Copybooks to Import
Examine Advanced Import Session Options

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