

Oracle Warehouse Builder 10g: Implementation Part I

Süre: 3 Days

What you will learn

In this 3-day hands-on course, students learn how to implement a data warehousing solution using Oracle Warehouse Builder (OWB). The concepts, design issues, architecture, and terminology that underlie OWB are explored. Students use OWB client tools to create and maintain OWB design metadata, including source and warehouse target definitions, and ETL mappings to extract, transform, and load data into the targets. Students generate, deploy, and execute OWB design objects to create and populate a target warehouse. This course focuses on relational dimensional modeling. This course serves as the prerequisite for Oracle Warehouse Builder 10g: Implementation Part 2. That course focuses on MOLAP modeling, and additional features of OWB.

Learn To: Extract, transform, and load data into the staging tables and an enterprise model warehouse
Create Data Profile
Generate Data Rules and Run Correction Mappings
Define source-to-target mappings
Design the target warehouse
Create Process Flows

Note:

The current version of this course is presented using OWB 10gR2, however this course is also suitable for OWB 11gR1 customers. The user interface differences between OWB 10gR2 and 11gR1 are very minor and hence are not included in this course's lab practices.

Audience

Business Analysts
Business Intelligence Developer
Data Warehouse Administrator
Data Warehouse Analyst
Data Warehouse Developer
Database Administrators

Prerequisites

Required Prerequisites

Oracle10g: Data Warehousing Fundamentals course, or prior DW experience or thorough familiarity with DW concepts

Oracle By Example: Warehouse Builder 10g R2: Getting Started

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

eStudy: Introduction to Business Intelligence Products

Course Objectives

Create Data Profile
Generate Data Rules and Run Correction Mappings
Define source-to-target mappings
Designing the target warehouse
Create Process Flows
Extracting, transforming, and loading data into the staging tables and an enterprise model warehouse

Create Schedules
Use the Dependency Manager to manage metadata
Deploy objects directly into Oracle Business Intelligence Discoverer EUL

Course Topics

Setting Up and Starting Warehouse Builder

Describe typical Oracle Warehouse Builder configurations, including the classroom stand-alone setup
Describe Oracle Warehouse Builder program group components
Log in to the Design Center
Create a design repository and users
Open a project and navigate the user interface

Introducing OWB 10g R2 Architecture and Configuration

Discuss various design and run-time configurations
Describe the Warehouse Builder repository architecture, users, and owners
Describe the OWB repository architecture, users, and owners
Explain the benefits of warehouse staging areas
Describe the course data sources and targets
Import metadata using tcl scripts

Defining Source Metadata

Define and create source modules
Specify source data from flat files
Specify source data from relational database tables
Import source object metadata into the source modules

Ensuring Data Quality Using Data Profiling

Create a data profile
Profile the data
View profile results
Analyze profile results

Defining Staging Metadata and Mapping Tables

Create a target module
Add a staging table to a staging area warehouse module
Define mappings between source objects and staging table columns

Deriving Data Rules and Running Correction Mappings

Derive data rules
Create a correction
Run the generated correction mappings

Defining a Relational Dimensional Model

Define dimensions and cubes
Navigate the Data Object Editor
Define ETL mappings to load the dimensions and cubes

Handling Slowly Changing Dimensions

Explain how OWB handles a slowly changing dimension
Define a type 2 slowly changing dimension

Use the type 2 policy dialog box

Using Process Flows

Navigate the process flow editor

Create process flow definitions

Define a schedule

Use process flow activity templates

Use process flow activities

Deploying, Loading, and Viewing Data

Use the Control Center Manager

Load data into tables

Use the Dependency Manager to manage metadata

Business Intelligence Integration

Define Oracle Discoverer structures

Derive Oracle Discoverer structures

Define cross-tab and graph presentation templates