Oracle Database 10g: Using OLAP

Duración: 2 días

Lo que aprenderá

This class is not applicable to Oracle9i users.In Day 1 of the course you will learn Oracle's OLAP technology, terminology, and concepts. By the end of day 1, you will have built a simple Analytic Workspace (AW) with the basic cubes and dimensionality. You will view elements of your data model using preview tools that are built into the Analytic Workspace Manager tool. You will begin to build a more sophisticated AW by the end of the day.On Day 2, you will work on more sophisticated OLAP objects and analysis. You will and add objects of more complexity to the AW. Using the BI Spreadsheet Add-In and Discoverer Plus OLAP tools, you will view and analyze the data in the AW, including calculated measures. The last lesson is intended to introduce you to more strengths of the OLAP calculation engine. Describe OLAP concepts and terminology Build analytical reports that access the multidimensional data in the analytic workspace using the Discoverer Plus OLAP tool Create dimensions, cubes, and measures using the AWM10g tool for deployment with the OLAP analytical tools   Use the Oracle BI Spreadsheet Add-in to query OLAP data in an Excel spreadsheet Create custom measures for analysis

Audiencia
Business Intelligence Developer
Technical Consultant

Prerequisitos

Prerequisitos Sugeridos
Familiarity with Microsoft Windows applications
A basic understanding of OLAP concepts
Familiarity with Web browsers
Introduction to Oracle's Business Intelligence Solution
SQL Basic Knowledge

Objetivos Del Curso
Define Oracle's OLAP terminology
Describe the OLAP option and components
Explain Oracle's business intelligence end-user and administrative tools
Create and populate an AW in the Oracle database
Load data into the multidimensional cubes from a provided set of tables
Describe how attributes are used
Describe advanced cube-processing techniques, such as partitioning and aggregation methods
Describe how to manage sparse data by applying Oracle OLAP compression technology
Refresh data
Create calculated measures based on basic arithmetic, advanced arithmetic, prior and future comparisons, and time fram
Install and use the BI Spreadsheet Add-In tool
Create worksheets that contain cross tabs and graphs of OLAP data, and use many Discoverer Plus OLAP analytic techn
Create and use saved selections
Create reports of OLAP data based on trend analysis and ranking data
Add visual cues (stoplights) to the report that highlight specific data ranges
Discuss how OLAP DML can be used to enhance calculated measures

Defining OLAP Concepts
Reviewing business requirements
Understanding the dimensional model
Historically, how has OLAP been done?
Handling Multidimensional Needs with Oracle OLAP 10g

Understanding Oracle's OLAP Technology
Server
Tools for the end user
Tools for the administrator

Building an Analytic Workspace
What is an Analytic Workspace?
Using the AWM 10g interface
Creating an AW
Understanding Cubes
Creating Dimensions
Using templates for dimensions
Creating a Cube
Creating Measures

Applying Advanced Dimensional Design and Cube Processing Techniques
Adding Attributes to the dimensional model
Using Partitioning
Understanding aggregation methods
Examining dimensional design considerations
Performing ongoing maintenance: refreshing data

Creating Calculated Measures and Applying Data Refresh Options
Calculated measures
Modify calculated measures
Refreshing data

Using the BI Spreadsheet Add-In to Query OLAP Data in Excel
Installing the BI Spreadsheet Add-In tool
Connecting to an Oracle OLAP data source
Using the OLAP Query Wizard
Creating a ranking report
Using saved selections
Creating OLAP calculations
Applying Excel formatting to OLAP data

Building Analytical Reports with Discoverer Plus OLAP
Enabling the Discoverer Plus OLAP user
Creating a Connection, Workbook, and Worksheet
Using the OLAP Query Wizard
Using the Discoverer Plus Work Area
Understanding Query Steps
Applying User Attributes in Query Steps
Revisiting OLAP Calculations

Viewing and modifying the graph

Enhancing Analytic Content
Understanding the difference between Model and Object View
Using the OLAP Worksheet interface
Entering OLAP DML commands
Examining Oracle OLAP Calculation Engine Capabilities