

Oracle Reports Developer 10g: Build Reports

: 5 Days

What you will learn

In this course, students learn how to design and build a variety of standard and custom Web and paper reports using Oracle Reports Developer (9.0.4.0.1). Working in the declarative environment of Reports Builder, students learn how to retrieve, display, and format data from any data source in numerous reporting styles and publish the output to any destination.

During the course, students learn how to add dynamic content to a static Web page and publish reports to the Web. Students also learn how to customize more complex reports, embed graphical charts, and use OracleAS Reports Services to deploy your reports.

Audience

Business Intelligence Developer
Reports Developer
Technical Consultant

Prerequisites

Suggested Prerequisites

XML: Introduction or equivalent familiarity with basic XML

Course Objectives

- Add dynamic data to an existing HTML page
- Use report parameters and customize a runtime parameter form
- Enhance reports using graphs and PL/SQL trigger code
- Maximize report performance using OracleAS Reports Services and tune reports
- Publish a report on the Web and build reports to run in various languages
- Manage report templates, create mailing labels and letters
- Identify the main components in a report document and how they are related
- Identify the differences between Web and paper reports
- Identify standard report design styles and run existing reports to various output destinations
- Create and modify basic tabular reports and high quality Web reports
- Create other report styles such as break reports and matrix reports
- Create reports by accessing data from various data sources

Course Topics

Introduction to Oracle Reports Developer

- Business Intelligence
- Enterprise Reporting
- Oracle Reports Developer
- Oracle Database 10g
- Oracle Developer Suite 10g
- Oracle Application Server 10g
- OracleAS Reports Services

Designing and Running Reports

- Understanding User Requirements
- Designing Reports
 - Tabular
 - Master-Detail
 - Master with Two Details
 - Matrix
- Retrieving and Sharing Data
- Running a Report

Working in Oracle Reports Developer

- Reports Developer Executables
- Invoking Reports Builder
- Reports Builder Modules
- Report Data and Layout
- Reports Builder Components
- Object Navigator
- Report-Level Objects
- Data Model Objects

Creating a Paper Report

- Report Module Components
- Building a Paper Report
- Viewing the Paper Report Output
- Saving the Report Definition
- Reentering the Wizard
- Creating Break Reports
- Break Report Labels
- Creating Mailing Labels and Letters

Enhancing a Basic Paper Report

- What Is the Paper Design?
- The Paper Design Window
- Modifying a Report
- Aligning Columns
- Setting a Format Mask
- Manipulating Objects
- Modifying Visual Attributes
- Applying Conditional Formatting

Managing Report Templates

- Using Report Templates
- Modifying a Template
- Customizing the Template Margin
- Customizing the Template Body
- Adding Web Links to a Template for Report HTML Output
- Predefining Your Own Templates
- Adding a Template Preview Image

Creating a Web Report

- What Is JSP Technology?
- JSP Advantages
- Simple JSP Example
- Building a Web Report
- Using the Report Wizard
- Report Editor: Web Source View
- JSP Tags
- Web Source Example

Enhancing Reports Using the Data Model: Queries and Groups

- The Data Model Objects
- Modifying Properties of a Query
- Applying Changes
- Changing the Group Structure
- Group Hierarchy
- Ordering Data in a Group
- Query Modifications
- Filtering Data in a Group

Enhancing Reports Using the Data Model: Data Sources

- Data Source Types
- Pluggable Data Sources
- Using XML as a Data Source
- Document Type Definition File
- OLAP Data Source
- Using Text as a Data Source
- Using JDBC as a Data Source
- Using REF Cursor Queries

Enhancing Reports Using the Data Model: Creating Columns

- Data Model Columns
- Maintaining Data Source Columns
- Producing File Content Output
- Creating a Column
- Creating Summary Columns
- Displaying Subtotals
- Displaying Percentages
- Creating a Formula Column

Enhancing Reports Using the Paper Layout

- Viewing the Paper Layout
- Designing Multipanel Reports
- Printing Multipanel Reports
- Different Objects in the Paper Layout
- The Paper Layout Layers
- Report Processing
- Paper Layout Tools
- Report Bursting

Controlling the Paper Layout: Common Properties

- Modifying Paper Layout Object Properties
- Common Layout Properties

Sizing Objects

Anchors

Layout Object Relationships

Pagination Icons in the Paper Layout

Controlling Print Frequency

Using Format Triggers

Controlling the Paper Layout: Specific Properties

Properties of a Repeating Frame

Specifying Print Direction

Controlling the Number of Records per Page

Controlling Spacing Between Records

Minimum Widow Records

System Variables

Valid Source Columns

Displaying File Contents

Web Reporting

Comparing Static and Dynamic Reporting

Adding Dynamic Content

Creating a Report Block

Invoking the Report Block Wizard

Examining the Web Source Code

rw:foreach Tag

rw:field Tag

Customizing Reports JSPs

Extending Functionality Using XML

Why Use XML Report Definitions?

Creating XML Report Definitions

Partial Report Definitions: Format Modification Example

Partial Report Definitions: Format Exception Example

Full Report Definition: Data Model Modification Example

Running XML Report Definitions

Debugging XML Report Definitions

Creating and Using Report Parameters

Creating User Parameters

Referencing Parameters in a Report Query

Using Bind References

Using Lexical References

Hints and Tips When Referencing Parameters

Creating a List of Values

Referencing System Parameters

Building a Paper Parameter Form

Embedding a Graph in a Report

Adding a Graph to a Paper Report

Adding a Graph to a Web Report

Selecting the Graph Type

Selecting the Graph Data

Adding Options to the Graph

Customizing Web Graphs
The rw:graph Tag
Customizing Graphs Using the Graph.XML File

Enhancing Matrix Reports

The Matrix Data Model
The Matrix Paper Layout
Creating Matrix Summaries
Creating the Matrix Manually
The Matrix with Group Data Model
The Matrix with Group Layout
Building a Nested Matrix
Nested Matrix Paper Layout

Coding PL/SQL Triggers

Types of Triggers in Reports
Trigger Code
Using Report Triggers
Using Data Model Triggers: PL/SQL Group Filter
Using Data Model Triggers: Parameter Validation
Using Layout Triggers
Using Format Triggers
Event-Based Reporting

Extending Functionality Using the SRW Package

Contents of the SRW Package
Outputting Messages
Executing a Nested Report
Restricting Data
Initializing Fields
Creating a Table of Contents
Performing DDL Statements
Setting Format Attributes

Maximizing Performance Using OracleAS Reports Services

Running Reports Using OracleAS Reports Services
Report Request Methods
Oracle Application Server Components
Enabling Single Sign-On Access
Running the Web Layout: JSP Run-time Architecture
Running the Paper Layout: Servlet Run-time Architecture
Running a Paper Report on the Web
Queue Manager

Building Reports: Efficiency Guidelines

Tuning Reports
Performance Measurement
Non SQL Data Sources
Investigating the Data Model
Investigating the Paper Layout
Running the Report
Different Development and Run-Time Environments

Developing Reports to Run in Different GUIs

Related Courses

Oracle Reports Developer 10g: Build Reports Self-Study CD