

## Oracle Reports Developer 10g: Build Reports

### Descripción Curso

In this course, students learn how to design and build a variety of standard and custom Web and paper reports using Oracle Reports Developer. 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.

### Prerequisitos:

#### Prerequisitos Requeridos:

Oracle Database 10g: SQL Fundamentals I  
Oracle Database 10g: PL/SQL Fundamentals  
Oracle Database 10g: Develop PL/SQL Program Units

#### Prerequisitos Sugeridos:

XML: Introduction or equivalent familiarity with basic XML  
Base de Datos Oracle 10g: Conceptos Fundamentales de SQL II

#### • Objetivos Del Curso:

- 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

### **Temas Del Curso:**

#### **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

OracleAS Reports Services Architecture for the Web

#### **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



**Nombre Oracle: Oracle Reports Developer 10g: Build Reports**

**Nombre Sence: Oracle Reports Developer 10g: Build Reports**

**Duración: 40 Horas**

**Código Sence: En tramite**

**Manuales de acuerdo al curso**

**Perfil Relator**

- Especialista en Ciencias de la Informática y SW Oracle
- Certificación en los temas de la especialidad Oracle correspondiente a cada curso
- Experiencia en Consultoría