

## ORACLE 10g Reports Developer

**Duration:** 5 days

### Description

This lab-intensive course is designed to lead developers through the steps involved in developing reports. The course covers concepts involved in using the GUI report writer to build reports in various formats that can include buttons, multimedia and OLE2 objects. Participants cover how to:

- Create reports by accessing data from various data sources
- Create and modify basic tabular reports and high quality Web reports
- Create other report styles such as break reports and matrix reports
- 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
- Publish a report on the Web
- 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 Oracle Reports Services and tune reports

### Audience

This course is aimed at application developers, designers, analysts and technical support personnel, plus those who manage projects requiring these skills.

### Prerequisites

Oracle Foundation Classes (SQL Basics & PL/SQL Workshop) or equivalent experience is required.

### Topics

#### INTRODUCTION TO ORACLE REPORTS

- Oracle Reports overview
- Working with Oracle reports on the client and the Web
- Report Builder, Synchronization, Help

#### RUN A REPORT ON THE CLIENT

- Paper Design Actions
- Web Layout Actions
- From the Command Line

- Pass a parameter to a report
- Generate Report Output

#### CREATING A TABULAR REPORTS

- Creating a tabular report
- The Report Wizard
- Report Choices and Style
- Data Source Type and Definition
- Displayed Fields in the report
- Add Summaries
- Modify Labels
- Report Templates and Viewer

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### CREATE MASTER-DETAIL REPORTS

- Create a Master Group, Query, Group Fields
- Create a detail group in the wizard
- Data Model for a single report, and a master detail report
- Layout for a group left report
- Create a Detail Group Manually
- Data Model for a Group Above Report
- Repeating Frames
- Page Number and Date/Time in a report

### CREATE FORM LETTER REPORTS

- Create a Form Letter, Query, Text
- Add Boilerplate in the Layout
- Explore the Margin Section
- Import an Image

### CREATE MAILING LABEL REPORTS

- Create Mailing Labels
- Create Mailing Label Query
- Add Boilerplate to Mailing Labels
- Repeat Frames in Multiple Directions
- Frame Property Inspector

### CREATE FORM REPORTS

- Create a Form-Like Report
- Create Form Report Query and Labels
- Create a Field in the Paper Layout
- Field Property Inspector
- Toolbars in the Layout
- Create Report Documentation

### CREATE DATA MODEL GROUPS

- Create a Query in the Data Model
- Query and Group Property Inspector
- Add a Group Filter
- Link Queries

- Create a PL/SQL Query, Create a PL/SQL Package and Query Function
- Ref Cursor Property Inspector

### CREATE DATA MODEL COLUMNS

- Creating data model columns
- Summary columns
- Column Property Manager
- Create Grand Total and Formula Columns
- Placeholder columns

### CREATE MATRIX REPORTS

- Creating a matrix report
- Add summaries to a matrix report
- Matrix report labels, output, data model, layout
- Create a matrix in the data model
- Create a Cross Product in the data mode

### ENHANCE MATRIX REPORTS

- Creating a matrix group report
- Matrix group Query, rows, columns, cell fields, summaries, labels, data model, output, layout
- Create a nested matrix report
- Add matrix summaries in the data model

### USING PARAMETERS

- System Parameter
- Create a BIND parameter
- Parameter Property Inspector
- Validation triggers
- Creating a lexical parameter
- Static list of variable
- BIND vs. Lexical
- Generate Parameter Form
- Parameter Form Editor, Size, at Runtime

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### CREATE OR MODIFY LAYOUT OBJECTS

- Create a Header and Trailer Page
- Formatting Data, Conditional Formatting
- Confine Mode OFF and ON
- FLEX Mode OFF and ON
- Select Parent Frame
- Print Objects Object Elasticity
- Page Breaks
- Multi-panel Reports
- Column Mode
- Create a Report Block
- Create Explicit Anchors

### EMBED A GRAPH IN A REPORT

- The Graph Wizard
- Select the graph type and position the graph
- Choose the X or Y axis
- Graph Layout, titles, legend, options, output, property inspector, hyperlinks

### USING PL/SQL IN REPORTS

- Understanding PL/SQL
- Pre-defined packages and exceptions
- PL/SQL functions in triggers
- Creating and attaching external PL/SQL
- PL/SQL trace and debug features

### CREATE REPORTS FOR THE WEB

- JSP, JSP Tags
- Web Source
- Create a Bookmark
- Generate HTML and PDF Output
- Adding HTML Header or Footer
- Creating Hyperlinks
- Report Escapes

### RUN A REPORT ON THE WEB

- Environment Variables
- Static and Dynamic Reporting
- Three-tier Architecture
- How to Deploy a Report
- Test a report on the client
- The Report in a Web Browser

### CREATE REPORT TRIGGERS

- Five Report Triggers
- PL/SQL Block Structure
- Create a Procedure or Function
- Create and view a Report Trigger
- Create and store code in a PL/SQL Library, attach a PL/SQL Library
- Stored Procedures vs. Library

### CREATE OTHER REPORT TRIGGERS

- Group Filter Triggers
- Validation Triggers
- Format Triggers on Fields and Frames

### THE SRW PACKAGE

- Send a message
- Run a report in the background
- Set field values
- Perform SQL statements
- Set Formatting

### USE XML IN ORACLE REPORTS

- Generate XML Output
- Report Definition Tags
- Partial and Complete XML Report
- Run an XML Report
- Apply and XML Format

### USE THE REPORT QUEUE MANAGER

- Report Services
- Report Queue Manager
- Schedule a Report Job



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