

Oracle Forms Developer 10g: Build Internet Applications

Duration: 5 Days

What you will learn

Leverage your investment by taking advantage of web technologies to easily and quickly construct sophisticated database forms and business logic with minimal effort. This course focuses on teaching students to use Oracle Forms Developer 10g (10.1.2.0.2) to rapidly build scalable, high-performance applications for the Internet.

In this course students build, test, debug, and deploy interactive Internet applications. Working in a graphical user interface (GUI) environment, they develop an order entry application from the ground up. This application incorporates several advanced features that provide a rich user experience while implementing business rules.

This course counts towards the Hands-on course requirement for the Oracle Forms Developer Certified Professional Certification. Only instructor-led inclass or instructor-led online formats of this course will meet the Certification Hands-on Requirement. Self Study CD-Rom and Knowledge Center courses are excellent study and reference tools but DO NOT meet the Hands-on Requirement for certification.

Learn To:

Customize forms with user input items such as check boxes, list items, radio groups, and Pluggable Java Components

Integrate Java into Forms applications by using JavaBeans

Control navigation, data access, validation, and transactions by creating event-related triggers

Enable Forms applications running on the Web to access files and applications on the client computer

Display Forms elements and data in multiple canvases and windows

Deploy Forms applications to the Web

Audience

Application Developers

Developer

Forms Developer

PL/SQL Developer

Support Engineer

Technical Consultant

Prerequisites

Required Prerequisites

A good familiarity with Graphical User Interface (GUI)

Working experience with the Web browser

Suggested Prerequisites

Oracle Database 10g: Develop PL/SQL Program Units

Oracle Database 10g: Program with PL/SQL

Oracle Database 10g: Introduction to SQL

Oracle Database 10g: Advanced PL/SQL

Course Objectives

Create form modules, including components for database interaction and GUI controls
Display form modules in multiple windows and use a variety of layout styles
Test form modules in a Web browser
Debug form modules in a 3-tier environment
Implement triggers
Reuse objects and code
Link one form module to another

Course Topics

Introducing Oracle Forms Developer and Forms Services

Grid Computing
Oracle 10g Products
Oracle Application Server 10g Architecture
Benefits and Components of Oracle Developer Suite 10g
Running a Forms Developer Application
Working in the Forms Developer Environment

Creating Forms Modules

Creating a Basic Forms Module
Creating a Master-Detail Forms Module
Modifying the Data Block
Modifying the Layout

Working with Data Blocks and Frames

Using the Property Palette
Managing Object Properties
Creating and Using Visual Attributes
Controlling the Behavior and Appearance of Data Blocks
Controlling Frame Properties
Creating Control Blocks
Deleting Data Blocks

Working with Input Items

Creating Text Items
Controlling the Behavior and Appearance of Text Items
Creating LOVs
Defining Editors
Creating Check Boxes
Creating List Items
Creating Radio Groups

Working with Non Input Items

Creating a Display Item
Creating an Image Item
Creating a Push Button
Creating a Calculated Item
Creating a Hierarchical Tree Item
Creating a Bean Area Item

Working with Windows and Canvases

- Overview of Windows and Canvases
- Displaying a Forms Module in Multiple Windows
- Creating a New Window
- Displaying a Forms Module on Multiple Layouts
- Creating a New Content Canvas
- Creating a New Stacked Canvas
- Creating a New Toolbar Canvas
- Creating a New Tab Canvas

Producing Triggers

- Grouping Triggers into Categories
- Defining Trigger Components: Type, Code, and Scope
- Specifying Execution Hierarchy
- Using the PL/SQL Editor
- Writing Trigger Code
- Using Variables and Built-ins
- Using the When-Button-Pressed and When-Window-Closed Triggers

Debugging Triggers

- The Debugging Process
- The Debug Console
- Setting Breakpoints
- Debugging Tips
- Running a Form in Debug Mode
- Stepping through Code

Adding Functionality to Items

- Coding Item Interaction Triggers
- Defining Functionality for Check Boxes
- Changing List Items at Run Time
- Displaying LOVs from Buttons
- Populating Image Items
- Populating and Displaying Hierarchical Trees
- Interacting with JavaBeans

Run-Time Messages and Alerts

- Built-ins and Handling Errors
- Controlling System Messages
- The FORM_TRIGGER_FAILURE Exception
- Using Triggers to Intercept System Messages
- Creating and Controlling Alerts
- Handling Server Errors

Query Triggers

- SELECT Statements Issued During Query Processing
- WHERE and ORDER BY Clauses and the ONETIME_WHERE Property
- Writing Query Triggers
- Query Array Processing
- Coding Triggers for Enter-Query Mode
- Overriding Default Query Processing
- Obtaining Query Information at Run Time

Validation

Validation Process

Controlling Validation Using Properties

Controlling Validation Using Triggers

Performing Client-Side Validation with PJC's

Tracking Validation Status

Using Built-ins to Control When Validation Occurs

Navigation

Navigation Overview

Understanding Internal Navigation

Using Object Properties to Control Navigation

Writing Navigation Triggers: When-New--Instance, Pre- and Post- Triggers

The Navigation Trap

Using Navigation Built-ins in Triggers

Transaction Processing

The Commit Sequence of Events

Characteristics and Common Uses of Commit Triggers

Testing the Results of Trigger DML

DML Statements Issued During Commit Processing

Overriding Default Transaction Processing

Running Against Data Sources Other Than Oracle

Getting and Setting the Commit Status

Implementing Array DML

Writing Flexible Code

What Is Flexible Code?

Using System Variables for Flexible Coding

Using Built-in Subprograms for Flexible Coding

Referencing Objects by Internal ID

Referencing Items Indirectly

Sharing Objects and Code

Working with Object Libraries

Working with SmartClasses

Reusing PL/SQL

Working with PL/SQL Libraries

Using WebUtil to Interact with the Client

Benefits of WebUtil

Integrating WebUtil into a Form

Interacting with the Client`

Introducing Multiple Form Applications

Multiple Form Applications Overview

Starting Another Forms Module

Defining Multiple Form Functionality

Sharing Data Among Modules