

Oracle Application Express: Developing Web Applications

Duration: 5 Days

What you will learn

Oracle Application Express Release 4.1 further streamlines the development of database-centric Web applications. In this course, you'll learn to rapidly develop a Web application and then deploy using Oracle Application Express.

Learn To:

- Incorporate shared components into an application.
- Use SQL Workshop to create and manage database objects.
- Maintain and monitor access to an application.
- Manage the Application Development process.
- Use the application builder to create and modify an application.
- Secure an application by restricting access to users.
- Deploy an application from a development environment to a production environment.
- Create various components of an application using the multiple wizards available.

Key Course Topics

This course also explains dynamic actions, plug-ins and shared components. Expert instructors will teach you how to use and modify the available themes and templates.

Creating & Managing Database Objects

You'll also learn about the creation and management of database objects. Explore two types of applications, database and websheet, along with the various types of page wizards.

Audience

Application Developers
Business Intelligence Developer
Developer
Forms Developer
System Analysts
Technical Consultant

Related Training

Suggested Prerequisites

Oracle Database: PL/SQL Fundamentals Ed 1

Oracle Database: SQL Fundamentals I Ed 1

Course Objectives

Develop database and websheet applications

Deploy the Application as a Packaged Application

Debug your application

Utilize dynamic components such as dynamic actions and plugins

Manage Access Control by authorizing and authenticating users

Utilize Team Development to drive the application development process

Utilize and Manage Shared Components in an Application

Add Page Processing components

Manage database objects

Administer Oracle Application Express Workspaces

Load and Unload data or application components

Manage users and groups

Build queries of database objects and incorporate in an application

Use and manipulate reports and forms in Oracle Application Express

Course Topics

Maintaining Database Objects Using SQL Workshop

Browse, create and modify database objects using Object browser

Execute SQL scripts using SQL Command and SQL Scripts

Build and save SQL queries using Query Builder

Import and export data using Utilities

Building Database Applications

Discuss the difference between a Database Application and a Websheet Application

Identify the components of a database application

Create a database application from scratch

Create a database application from a spreadsheet

Creating Reports

Identify the types of reports you can create

Create, manipulate and customize interactive reports

Create and modify classic and wizard reports

Creating Forms

Identify the types of forms you can create

Create and modify various types of forms

Working with Pages and Regions

View and edit page definitions and attributes

Create and modify a region and subregion

Create a Page Zero

Add page groups and comments

Adding Items and Buttons

Identify different types of items

Create items and edit item attributes

Create and use List of Values

Create buttons and edit button attributes

Understanding Session State and Debugging

Explain how APEX uses session state

View, reference and clear session state values

Review messages in debug mode

Including Page Processing

Explain the difference between page rendering and page processing

Create computations in application pages

Create page processes

Create validations to verify user input

Create branches within a application

Building a Websheet Application

Create a Websheet Application

Add a Page to a Websheet Application

Add and manipulate a Data Grid and Report

Add Annotations to a Data Grid

Create a Saved Report of a Data Grid

Add Sections to a Page

Share Websheets using an Access Control List

Using Application and Page Utilities

Use the Advisor to verify your application

Manage defaults using the Attribute Dictionary

Adding Shared Components that Aid Navigation

Explain the use of shared components in an application

Create and edit tabs, navigation bar entries, lists and breadcrumbs

Displaying Dynamic Content

Create and use a dynamic action

Import and use a plugin

Create and modify a chart

Create a calendar

Create a tree

Working with Themes, Templates, and Files

Explain what themes and templates are

Create a new theme from the repository and switch to the theme to make current
Create and edit a template
Upload and use a Cascading Style Sheet and an image

Administering Application Express Workspaces

Create a developer and a workspace administrator user
Request a schema or a storage
Monitor the developer activity log

Implementing Security

List the different ways to secure your application
Differentiate between authentication and authorization
Create an authentication scheme for your application
Create an authorization scheme using Access Control
Enable and configure Session State Protection

Deploying Your Application

Identify the supporting objects for your application
Export an application and its supporting objects
Import an application
Install the supporting objects

Managing and Maintaining the Application Development Process

Track Features, Milestones, Bugs and To Dos
Manage Feedback