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