

Oracle Application Express (APEX) Development Web Application

Course overview:

Oracle Application Express further streamlines the development of database-centric Web applications. In this course, participants learn to rapidly develop a Web application and then deploy using Oracle Application Express. Participants learn about the creation and management of database objects and about the two types of applications, database and websheet applications, along with the various types of page wizards.

The course explains Dynamic actions, plug-ins, shared components, and creation of various components of an application using the various wizards available. Participants learn to use and modify the available themes and templates, and learn to secure an application by restricting access to users. Participants also gain knowledge on how to deploy an application from a development environment to a production environment.

Course Objective:

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

Prerequisites:

Basic knowledge of SQL, PL/SQL, and HTML

Who should attend?

Application Developers
System Analysts
Forms Developer
Developer
Technical Consultant
Business Intelligence Develop
Mobile Apps Developer

Duration: 70 Hours

Outline for this course:

Oracle Application Express 5.1

- 1. Course Overview**
 - Start and stop the Oracle database and components

- *Create Pages and Regions in an Application*
 - *Log in to an Oracle Application Express Workspace*
 - *Create Page and Application Items and Buttons*
 - *Create Page Processes and Validations*
 - *Implement Security*
 - *Manage Application Navigation*
 - *Extend an Application*
 - *Create Themes and Templates*
 - *Create Shared Components such as Tabs, Lists, and Breadcrumbs*
 - *Add Dynamic Actions*
 - *Import and Use Plug-Ins*
 - *Create and Use Calendars and Trees*
 - *Utilize Application Express Printing methods*
 - *Manage Application feedback*
 - *Create Reports and Forms in an application*
 - *Create and Run Database Applications using desktop and mobile interfaces*
2. **Introducing Oracle Application Express**
 - *Application Express Overview*
 - *Application Express Terms and Concepts*
 - *Using Application Express*
 3. **Creating a Desktop and Mobile Database Application**
 - *Application Builder Overview*
 - *Introducing Database Applications*
 - *Creating Database Applications*
 - *Creating Mobile Application*
 4. **Working with Reports for Desktop Application**
 - *Introducing Reports*
 - *Using Classic Reports*
 - *Using Interactive Reports*
 - *Creating and Customizing an Interactive Report*
 5. **Working with Reports for Mobile Application**
 - *Creating Reports for a Mobile Application*
 - *Creating Column Toggle Report*
 - *Creating a Reflow Report*
 6. **Creating Forms**
 - *Using Forms*
 - *Creating Forms*
 - *Modifying Forms*
 - *Creating a Form in a Mobile Application*
 7. **Working with Pages and Regions**
 - *Introducing Page Definition*
 - *Working with Page Regions*
 - *Working with Pages*
 8. **Adding Items and Buttons**
 - *Introducing Items*
 - *Using Items*
 - *Creating List of Value (LOV) Type of Items*
 - *Using Buttons*
 9. **Understanding Session State**
 - *Understanding Session State in Oracle Application Express*
 - *Using Session State in Oracle Application Express*

10. **Including Page Processing**
 - *Introducing Page Processing*
 - *Including Computations*
 - *Including Processes*
 - *Including Validations*
 - *Including Branches*
11. **Validating and Debugging Your Application**
 - *Using the Advisor*
 - *Managing Your Attribute Dictionary*
 - *Debugging Your Application*
12. **Adding Shared Components That Aid Navigation**
 - *Introducing Shared Components*
 - *Creating Tabs*
 - *Creating Lists*
 - *Creating Breadcrumbs*
 - *Creating a Navigational Bar*
13. **Working with Themes, Templates and Files**
 - *Using Themes*
 - *Using Templates*
 - *Using Files*
14. **Implementing Security**
 - *Securing an Application*
 - *Using Authentication Schemes*
 - *Using Authorization Schemes*
 - *Using Session State Protection*
15. **Managing Application Navigation**
 - *Building a Hierarchical List with Images*
 - *Building a Site Map*
 - *Enforcing Authorization on Your Site Map*
 - *Linking Interactive Reports using a Declarative Filter*
16. **Extending Your Application**
 - *Creating Data Load Wizard Pages*
 - *Creating an Upload and Download Page*
 - *Adding BLOB Data to an Existing Application*
 - *Sending Email from an Application*
17. **Creating and Editing Charts**
 - *Creating and Using Charts*
 - *Enhanced Charting Examples*
18. **Adding Calendars and Trees**
 - *Using Calendars*
 - *Using Trees*
19. **Using Dynamic Actions and Plug-Ins**
 - *Using Dynamic Actions*
 - *Using Plug-Ins*
20. **Utilizing Application Express Printing**
 - *Printing a Standard Report with Derived Output*
 - *Creating a PDF Report with Multiple Queries*
21. **Jasper reports**
 - *Creating tabular report*
 - *Creating form type report*
 - *Creating group report*

22. *Real life project (Based on any module)*
23. *Run RDF report*

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