

Oracle Application Express: Developing Web Applications NEW

Süre: 4 Days

What you will learn

Oracle Application Express is a rapid web application development tool for the Oracle database. This course is designed to introduce the students to Oracle Application Express 3.2. The course covers various Application Express components and wizards to build applications and database objects that are easy to deploy. The students learn how to build forms and reports and incorporate different types of items and shared components. This course introduces interactive reports that enable end user customization. Students learn how to build and customize interactive reports. Creating and utilizing various navigation components as well as session management and debugging are discussed as well. In addition, students incorporate access control, and session protection to enforce application security. Once the application is complete, students learn how to define their packaged application and export the application. Students will also use all the Utilities and Report capabilities that Oracle Application Express provides to build a robust application.

Learn To:

Develop a database-centric Web application Using the Application Builder

Manage Database Objects Using SQL Workshop

Utilize and Manage Shared Components

Manage Authentication, Authorization, and Session State within your Application

Administer Application Express Workspaces

Deploy Your Application

Audience

Application Developers

Business Analysts

Developer

Forms Developer

PL/SQL Developer

Reports Developer

Prerequisites

Required Prerequisites

Oracle Database 11g: SQL Fundamentals I

Suggested Prerequisites

Basic knowledge of SQL, PL/SQL, and HTML

Course Objectives

Login to Oracle Application Express

Identify the Components of an Application

Develop a database-centric Web application

Manage database objects

Build queries of database objects and incorporate in an application

- Build and Customize Interactive Reports
- Create Forms
- Utilize and Manage Shared Components in an Application
- Add Page Processing Components
- Deploy the Application as a Packaged Application
- Manage users and groups
- Manage Access Control by authorizing and authenticating users
- Administer Oracle Application Express Workspaces
- Load and Unload data or application components

Course Topics

Introducing Oracle Application Express

- Explaining Oracle Application Express Concepts
- Identifying the Components of Oracle Application Express
- Explaining the Oracle Application Express architecture
- Creating a Workspace and a Workspace administrator user
- Installing and Running a Sample Application provided with Oracle Application Express
- Installing a Packaged Application
- Logging in to an Oracle Application Express Workspace

Interacting with the Database by Using SQL Workshop

- Browsing, Creating, and Modifying Objects
- Processing Ad Hoc SQL Statements
- Managing SQL Scripts
- Creating, Running, and Saving SQL Queries

Building an Application

- Identifying the Components of an Application
- Creating an Application from Scratch
- Creating an Application from a Spreadsheet

Creating Reports

- Identifying Report Types
- Creating Interactive Reports
- Generating Reports Using Wizards
- Manipulating your Interactive Report
- Customizing your Interactive Report

Creating Forms

- Identifying the types of Forms
- Creating a Form on a Table with Report
- Creating a Tabular Form
- Creating a Master Detail Form
- Editing Form Attributes

Working with Pages and Regions

- Viewing Page Definitions
- Editing Page Attributes
- Creating a New Region
- Viewing Region Attributes

Adding Comments

Adding Items and Buttons

Creating Items

Editing Item Attributes

Creating Buttons

Editing Button Attributes

Understanding Session State and Debugging

Implementing Session State

Setting a Session State Value

Clearing the Session State

Reviewing the Session State

Reviewing the Messages in Session State

Including Page Processing

Explaining the Difference Between Page Rendering and Page Processing

Creating Computations for your Application

Validating Input Data

Process Data

Creating Application Branching

Adding Shared Components That Aid Navigation

Providing an Overview of Shared Components

Managing Parent and Standard Tabs

Managing Navigation Bars

Managing Lists

Managing Breadcrumbs

Adding Other Shared Components

Including List of Values in your Application

Creating Trees

Accessing Shared Component Reports

Setting User Interface Defaults

Displaying Dynamic Content

Filtering Reports Using Dynamic Queries

Creating Charts Using a Wizard

Creating a Calendar

Working with Themes and Templates

Explaining Themes and Templates

Switching to a Different Theme

Creating a Custom Theme

Viewing Existing Templates

Creating and Editing a Template

Referencing a Cascading Style Sheet

Changing a File to Use a Class in the Referencing style sheet

Administering Oracle Application Express Workspaces

Managing Users

Requesting a Schema or Storage

- Purging Session State
- Monitoring Developer Activity Log
- Monitoring Workspace Activity
- Viewing Activity Reports

Implementing Security

- Differentiating Between Authentication and Authorization
- Providing an Authentication Scheme
- Creating an Authorization Scheme Using Access Control
- Enabling and Configuring Session State Protection

Deploying Your Application

- Defining Supporting Objects
- Exporting Your Application
- Importing Your Application
- Installing Supporting Objects

Using Utilities

- Importing and Exporting Data
- Generating Data Definition Language (DDL) Statements
- Viewing Object Reports
- Viewing the Data Dictionary
- Monitoring the Database