

Introduction to Application Express (APEX) v3.x (4 Days)

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Introduction to Application Express (APEX) v3.x (CTI 363)

Application Express is Oracle's lightweight database-centric web development tool that can be used to easily create small, simple web applications. It is ideally suited for the developer coming from the Oracle Forms/Reports world that wants to learn to develop a web application from scratch. It is equally useful for data managers that would like to move their data (and applications) from a single-user environment such as a spreadsheet or Microsoft Access application to database repository. It provides great functionality for managing the database structures and actual data within an Oracle database.

Required Prerequisites: Understanding of SQL and PL/SQL.

Minimum software requirements: Microsoft Windows XP or later. Oracle database with APEX 3.x installed. J2SE 5.0 SDK or later. Java-compatible browser.

Minimum hardware requirements: Pentium III at 1 GHz; minimum of 1 Gb RAM; 3.5 Gb free disk space for Oracle database; Internet connection helpful.

Microsoft PowerPoint on instructor's workstation for presentation purposes.

Module 1: Introduction to Oracle Application Express v3.x

- What is Oracle Application Express (APEX)?
- Benefits
- Software Requirements
- Architecture and Installation
- Capabilities
- Typical APEX Applications
- Major Components
- Oracle Resources

Module 2: Application Express Functionality

- Workspace Concepts
- Workspace Login
- APPEX Components
- Application Builder Overview
- SQL Workshop Overview
- Utilities Overview
- Demonstration Applications

Module 3: Using SQL Workshop

- Accessing SQL Workshop
- Using Object Browser
- Executing SQL Commands
- Working with SQL Scripts
- Using Query Builder

Module 4: Using Utilities

- Accessing Utilities
- Using Data Load and Unload
- Generating DDL
- Running Object Reports
- Using the Recycle Bin
- Running APEX Views Reports
- Using Schema Comparison
- Understand Data Available from Database Monitor and About Database

Module 5: Application Builder Basics

- Understand the Basics of Application Builder
- Application Builder Terms
- Methods of Creating an Application
- Creating an Application from Scratch Demo

Module 6: Forms and Reports

- Creating a Form Using a Wizard
- Creating Reports Using Wizards
- Editing Report Attributes
- Interactive Reports
- Creating a Parameterized Report
- Creating a Drill Down Report

Module 7: Working with Pages, Regions and Templates

- Page Overview
- Editing Page Attributes
- Developer Toolbar
- Creating a Region
- Region Types
- Editing Region Attributes
- Overview of Templates
- Editing a Page Template

Module 8: Modifying the Application User Interface

- Adding Items and Buttons
- Calendars and Charts
- Working with Check Boxes

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Module 9: Page Processing

- The Difference between Page Rendering and Page Processing
- Create Computations
- Validate User Input
- Process Data
- Create Branching within an Application

Module 10: PDF Printing in APEX

- Software Requirements for PDF Printing
- Install BI Publisher to Enable PDF Printing
- Configure APEX to Work with BI Publisher
- Create PDF Reports
- Use BI Publisher Desktop to Configure a Report

Module 11: APEX and Web Services

- Understand What a Web Service Is
- Basic Understanding of SOAP, WSDL and UDDI
- Create a Web Service Reference from WSDL

Module 12: Shared Components and Development Practices

- Parent and Standard Tabs
- Navigation Bars
- Lists
- Breadcrumb Menus
- List of Values
- Themes
- Application Design Best Practices
- Packaging Applications
- Lifecycle

Module 13: Session State

- What is a Session State?
- APEX Session State Implementation
- Viewing Session State
- Getting Session State Values
- Setting a Session State Value
- Clearing Session State and Cache Values

Module 14: Security Implementation and Deployment

- Overview of Security
- Authentication
- Creating an Authentication Scheme
- Authorization
- Deploying an Application

Module 15: APEX Workspace Administration

- Locking and Unlocking Pages
- User Roles
- Requesting a New Workspace
- Managing APEX Users
- Monitoring Workspace Utilization
- Managing Log Reports
- Administering Session State
- Provisioning Services