

## Oracle HTML DB 2.0: Develop Web Applications

**Duration:** 3 Days

### What you will learn

This course is centred around building an Order-Entry application using HTML DB 2.0 now known as Oracle Application Express. This course provides an overview of the architecture and the various features in Oracle HTML DB 2.0. Become skilled in developing database-centric Web application-using features such as reports, forms, items and buttons including page processing. You also learn about workspace administration and security implementation through authorization and authentication schemes. In addition, you learn how to set and clear session state. Give yourself and your organization a competitive edge. Discuss the Oracle HTML DB architecture. Build a database-centric Web application using the Application Builder. Set and clear session states. Import and export data using SQL Workshop. Manage database objects using SQL Workshop. Authorize and authenticate users.

### Audience

Database Administrators  
PL/SQL Developer

### Prerequisites

#### *Suggested Prerequisites*

Basic knowledge of SQL, PL/SQL, and HTML

### Course Objectives

Discuss the Oracle HTML DB architecture  
Build a database-centric Web application using the Application Builder  
Set and clear session states  
Import and export data using SQL Workshop  
Manage database objects using SQL Workshop  
Authorize and authenticate users  
Administer the Oracle HTML DB Workspace

### Course Topics

#### **Introducing Oracle HTML DB**

Understand HTML DB architecture  
Identify the advantages of using Oracle HTML DB to build applications  
List the key features of Oracle HTML DB  
Login to their workspace  
Install and run a sample application

#### **Building an Application**

Navigate through the common User Interface components  
Understand the Application Builder terminology and components  
Create applications from scratch  
Create a table and an application using Spreadsheet data

## **Creating Forms and Reports**

- Create a Report Using a Wizard
- Edit Report Attributes
- Export a Report as a CSV or XML file
- Create a Report Linked to a Form
- Create a Tabular Form
- Build a Master Detail Form

## **Adding Pages and Regions**

- View page definition
- Edit page attributes
- Create a new region
- View region attributes
- Use the Developer Toolbar

## **Adding Items and Buttons**

- Create a new Item
- Edit the attributes of items
- Create buttons
- Edit the attributes of a button

## **Understanding Session State**

- Assign Session ID
- View Session State
- Reference Item values and getting Session State
- Set the Session State
- Clear Session State Values from the URL
- Clear the Cache

## **Including Page Processing**

- Create an "on Page Rendering" Computation
- Associate a Condition with Computation
- Create an "on Submit" Computation
- Create an "on Submit" Process
- Create a New Validation
- Create New Branching

## **Adding Shared Components That Aid Navigation**

- Create Parent and Standard Tabs
- Add Parent and Standard Tabs
- Create a Navigation Bar
- Create Lists
- Create a List Region
- Create Breadcrumbs

## **Adding Other Shared Components**

- Create Static LOVs
- Create Dynamic LOVs
- Associate LOVs with Items
- Create Trees

## **Displaying Dynamic Content**

- Filter Reports by Using Dynamic Queries
- Create an SVG Chart
- View Chart Attributes
- Create a Calendar

### **Working with Themes and Templates**

- View existing templates
- Edit templates
- Create template
- Create a New Theme

### **Administering Oracle HTML DB Workspaces**

- Request a Workspace
- Define Roles
- Create a New User
- Manage Environment Settings
- Manage Session State
- Purge Preferences for a User
- View Database Privileges Granted to Workspace Schemas

### **Implementing Security and Deploying the Application**

- Session state authentication
- Establish User Identity Through Authentication
- Create a New Authentication Scheme
- Create a New Authorization Scheme
- Deploy Your Application by Using Oracle HTML DB Utilities
- Export Your Application
- Import Your Application
- Install the Application

### **Interacting With The Database Using SQL Workshop**

- Use Object Browser to browse, create, and edit objects in the schema
- Use Query Builder to build SQL queries, search and filter database objects, select objects and columns, create relationships
- Use SQL Script Repository to list all SQL scripts in the SQL Script repository
- Use Utilities to import and export data
- Generate DDL
- Browse the Data Dictionary
- Query Data Dictionary

### **New features in HTML DB 2.0**

### **Advanced Features of Oracle HTML DB**

### **How to Create a Feedback Application**