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Oracle APEX with SQL and PL/SQL Course Content

Module 1: Database – SQL

- Understand SQL Basics
- Use SQL Commands and SQL Scripts
- Generate SQL by Using Quick SQL
- Database CRUD (Create, Read, Update, Delete) Functionality
- Database Objects – Table, Sequence, Trigger

Module 2: Database – PL/SQL

- PLSQL Programming Fundamentals
- PLSQL Functions
- PLSQL Packages
- PLSQL Procedures

Module 3: Introduction to Oracle APEX

- What is Oracle APEX?
- Introduction to Oracle Autonomous Database
- Understand Low Code Application Development
- Oracle APEX Availability and Architecture
- Oracle APEX Use Cases

Module 4: Oracle APEX Set Up

- Provisioning an APEX Workspace
- APEX History and Product Components
- Oracle APEX Architecture in Detail





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- Previewing Out-of-the-Box Apps Provided by Oracle
- Installing a Sample APEX Application

Module 5: Build First Application in APEX

- App Builder Concepts
- App Builder and the Create App Wizard
- Application Based on Existing Tables
- Create an Application from a File

Module 6: SQL Workshop

- Object Browser
- Use SQL Commands and SQL Scripts
- Generate SQL by Using Quick SQL
- Usage of PL/SQL in APEX Apps
- Build Sample Datasets

Module 7: Team Development and APEX Administration

- Purpose of Team Development
- Understand Labels, Milestones, and Templates
- Create and Manage Issues
- Team Development Utilities
- Create Oracle APEX Users
- Types of Oracle APEX Users and Access Control

Module 8: Build Complex POS APEX App – Part 1

- Introduction to Point of Sale (POS) App Design
- Design and Set Up Data Model for POS App





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- Build Complex APEX Pages to Manage Sales at Store
- Add Administration Features Using APEX Components

Module 9: Build Complex POS APEX App – Part 2

- Build Pages to Manage Sales
- Build Pages to Add and Manage Customers
- Build Dashboard Page to Display Stock and Other Details
- Create and Manage List of Values
- Create and Customize Buttons

Module 10: Build Expense Tracker App – Part 1

- Introduction to Expense Tracker App Design
- Design and Set Up Data Model
- Build Page to Add Expenses
- Build Page to Display Transactions
- Create Form and Report on the Same Page
- Reset Form After CRUD Operations

Module 11: Build Expense Tracker App – Part 2

- File Upload in Oracle APEX
- File Download in Oracle APEX
- Restrict File Upload Based on File Type and Size

Module 12: Security Implementation in POS App – Part 3

- Custom Authentication Schemes
- Oracle APEX Account Authentication
- Authorization Schemes





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- Access Control Administration Page
- User Authorization and Access Control

Module 13: Design POS Purchaser App

- Introduction to POS Purchaser App
- Design Application and Set Up Data Model
- Introduction to Security and Authentication

Module 14: Build POS Sales App – Part 1

- Parent-Child Relationship Regions Design
- Add Products and Fetch Details Dynamically
- Use APEX Collections for Runtime Data Storage
- Delete Data from APEX Collections

Module 15: Build POS Sales App – Part 2

- Custom Interactive Grid Actions and Buttons
- Apply Custom CSS to Highlight Report Columns
- Interactive Grid Customizations

Module 16: APEX Computations, Processes, and Validations

- Page Rendering and Processing
- Manage APEX Computations
- Create and Manage Page Processes
- Build and Manage Validations
- Understand Validations and Branches





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Module 17: Dynamic Actions in APEX

- Understanding Dynamic Actions
- Enable/Disable Items
- Set Item Values Dynamically
- Filter and Refresh Reports

Module 18: Dynamic Forms, Plugins, and Themes

- Understand Dynamic Forms
- Create Dynamic Forms Using SQL
- Use Various Input Types
- Create and Customize Themes
- Use Redwood Theme
- Create and Use Plugins

Module 19: Employee Leave Approval App – Part 1

- Understand Application Workflow
- Set Up Data Model and Load Data
- Build Leave Application Pages
- Create and Manage Automations

Module 20: Employee Leave Approval App – Part 2

- Manage Approvals
- Create Task Definitions
- Understand Roles (Employee, Manager, Admin)





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Module 21: Employee Leave Approval App – Part 3

- Track Tasks Created by User
- Approve Tasks as Manager
- Approve Tasks as Admin
- End-to-End Testing of Application

Module 22: E-Supplier Portal – Part 1

- Test Fusion REST APIs Using Postman
- Create REST Data Sources (Part 1 & 2)

Module 23: E-Supplier Portal – Part 2

- Create Interactive Reports for Suppliers
- Create Forms for Supplier Details
- Use REST APIs in PL/SQL
- Parse API Responses in PL/SQL

Module 24: Certification & Career Guidance

- Oracle APEX Certification Guidance
- Resume Preparation Support
- Interview Questions and Preparation

