

Oracle Forms and Reports

Duration: 5 days

Day 1 – Oracle Forms Fundamentals & Form Creation

Module 1: Introduction to Oracle Forms

- Oracle 10g Products Overview
- Oracle Application Server 10g Architecture
- Oracle Forms Services
- Benefits & Components of Oracle Developer Suite 10g
- Forms Runtime & Deployment Overview
- Forms Developer Environment & Tools

Module 2: Creating Forms Modules

- Creating a Basic Forms Module
- Running and Testing Forms Applications
- Creating Master-Detail Forms
- Modifying Data Blocks
- Modifying Layouts

Hands-On Labs

- Create a basic Oracle Form
 - Create and test a Master-Detail Form
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Day 2 – Data Blocks, Items & UI Components

Module 3: Working with Data Blocks and Frames

- Property Palette & Object Properties
- Visual Attributes
- Controlling Data Block Behavior
- Frame Properties
- Control Blocks
- Deleting Data Blocks

Module 4: Working with Input & Non-Input Items

- Text Items & Editors
- LOVs (List of Values)
- Check Boxes, List Items, Radio Groups
- Display Items & Calculated Items
- Image Items & Push Buttons
- Hierarchical Tree Items
- Bean Area Items

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- Design a rich UI Form with LOVs & Validation Items
 - Implement calculated fields and buttons
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Day 3 – Windows, Canvases & Trigger Programming

Module 5: Windows and Canvases

- Windows & Canvas Architecture
- Content Canvas
- Stacked Canvas
- Toolbar Canvas
- Tab Canvas
- Multiple Window Forms

Module 6: Trigger Programming

- Trigger Categories & Execution Hierarchy
- Writing Triggers using PL/SQL
- Built-ins & System Variables
- When-Button-Pressed
- When-Window-Closed
- Item Interaction Triggers

Module 7: Debugging Triggers

- Debugging Process
- Debug Console
- Breakpoints & Step Execution
- Runtime Debugging

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- Create trigger-based navigation
 - Debug PL/SQL trigger logic
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Day 4 – Validation, Navigation & Transaction Processing

Module 8: Runtime Messages & Alerts

- System Messages & Built-ins
- FORM_TRIGGER_FAILURE
- Custom Alerts
- Error Handling & Server Errors

Module 9: Query & Validation

- Query Processing Lifecycle
- Query Triggers
- Enter-Query Mode
- Validation using Properties

- Validation using Triggers
- Client-Side Validation (PJs)

Module 10: Navigation & Transactions

- Internal Navigation
- Navigation Triggers
- Navigation Trap
- Commit Sequence
- Commit Triggers
- Overriding Default Transaction Processing
- Array DML

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- Implement validations & alerts
 - Custom commit logic with triggers
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Day 5 – Advanced Forms & Oracle Reports

Module 11: Advanced Forms Concepts

- Writing Flexible Code
- System Variables & Built-ins
- Object Libraries
- Smart Classes
- PL/SQL Libraries
- Multiple Form Applications
- Inter-Form Communication

Module 12: Oracle Reports – Basics & Advanced

- Oracle Reports Builder Architecture
- Report Styles & Wizards
- Data Model & Layout Objects
- Parameter Forms
- Runtime Views

Module 13: Advanced Reports Development

- Web Reports
- PL/SQL in Reports
- Templates
- Output Formats (PDF, HTML, XML)
- Matrix Reports
- Business Reports
- Reports with Java & Pluggable Data Sources

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- Build and deploy Oracle Reports

- Integrate Forms with Reports