

Oracle Developer 2000 (Forms + Reports)

A. Forms

Module 1

1. WORKING WITH FORMS

BASIC CONCEPTS

- Oracle Forms

APPLICATION DEVELOPMENT IN FORMS

- Form Module
- Menus
- PL/SQL Libraries
- Object Libraries
- Database Objects

FORM MODULE

- Blocks
- Items
- Frames
- Canvas View
- Window
- PL/SQL Code Blocks

USING FORMS BUILDER

- Parts of the Forms Builder Window
- Tools Available with Forms Builder

FORM WIZARDS

- Data Block Wizard
- Layout Wizard

CREATING A FORM

GENERATING AND RUNNING A FORM

- Compiling a Form

- Running a Form
- Setting the Default Environment
- Data Retrieval and Manipulation Operations

II. MASTER FORM

MASTER DATA ENTRY SCREEN

- Integrity Constraints
- Validations in the master data entry screen
- Default Form Creation
- Laying out the objects on the form
- Creating a Control Block

III. PROPERTY CLASSES AND VISUAL ATTRIBUTES

MAINTAINING STANDARDS WITHIN A FORM

- Standards in a commercial Application.
- Setting Standards in Oracle Forms.

PROPERTY CLASS

- Creating a Property Class Object
- Assigning the Property Class to Other Objects on the Form

VISUAL ATTRIBUTES

- Setting the visual attributes of an object
- Creating Named Visual Attributes and applying the same to several objects.

Module 2

IV. PL/SQL LIBRARIES AND ALERTS

LIBRARY FILE FORMATS

CREATING AND ATTACHING A LIBRARY TO A MODULE

- Creating a New Library.
- Attaching a Library to Another Module.

ALERTS

- Creating an Alert
- Displaying an Alert
- Setting Alert Properties at Runtime

V. OBJECT LIBRARIES

MAINTAINING STANDARDS IN FORMS

- Advantages of Object Library.

OBJECTS INCLUDED IN AN OBJECT LIBRARY

CREATING AN OBJECT LIBRARY AND PLACING OBJECTS IN THE OBJECT LIBRARY.

- Common triggers included in the Object Library.

VI. THE MASTER DETAIL FORM

The Relation Object

View Mode

Delete Mode

CREATING A MASTER - DETAIL FORM

Creating the Master Block

Creating the Detail Block

Running a Master Detail Form

Data Retrieval and Manipulation Operations

Working of a Master Detail Form

Retrieving records in the Master and Detail Blocks

Adding Records in the Master and Detail Blocks

Adding Records in Detail Block and Setting value for the Join Column

Deleting Records in the Master Block along with corresponding Detail records.

Setting the properties of Relation Object.

Creating A Button Palette Block

Changes required in the Common Library Procedures

Attaching Common PL/SQL Library

Triggers

Disabling Default Forms Toolbar

Enabling and Disabling Navigational Buttons

VALIDATIONS

Using Database Triggers and Database Package to ensure Table Data Integrity

Implementing Business rules using WHEN-VALIDATE-ITEM trigger.

Not Null Check using ON-ERROR Form Trigger

Creating Display Items

WORKING WITH L.O.V. OBJECTS

Creating an L.O.V.

L.O.V IN THE DETAIL SECTION

CHANGING THE LIST OF VALUES DYNAMICALLY AT RUNTIME

How L.O.V window populates with list of values.

Setting Properties to 'Disable' refreshing of the Record Group.

SETTING DEFAULT VALUES FOR THE ITEMS

VII. USING MULTIPLE CANVASES

STACKED CANVAS

Creating Detail Block

Attaching common PL/SQL Library

Triggers

Disabling Default forms toolbar

Enabling and Disabling Navigational Buttons

VALIDATIONS

Validation Rule Implementations

Using Database Triggers and database package to ensure Table Data Integrity.

Not Null Check using ON-ERROR Form Trigger

Making the Balance Due Item not enterable

Using Radio Groups for Validations

VIII. USING TAB CANVAS

Creating a Master Block and Detail Block

Setting the Properties of the Relation Object

CREATING A BLOCK AND PLACING BLOCK ITEMS ON A NEW TAB PAGE

VALIDATIONS

CREATING AND USING A LIST ITEM

Poplist

TLIST

ComboList

List Element Elements

Creating a List Item

Adding static List Elements

Setting List Element values programmatically.

WORKING WITH FORMULA AND SUMMARY ITEMS

CREATING AND USING AN EDITOR

CREATING A HORIZONTAL TOOLBAR CANVAS

TRIGGERS

IX. INTERLINKING RELATED FORMS AND PASSING PARAMETERS BETWEEN FORMS

Opening Another Form From The Current Form

Passing Parameters To The Called Form

X. WORKING WITH MENUS

Using a Custom Menu

Attaching PL/SQL Code To The Menu Items

Saving Compiling AND Attaching A Menu Module

Checked,Enabled AND Displayed Properties Of Menu Items

Creating An Iconic Toolbar

Master Detail Menu

B. Oracle Reports

Module 1

I. Features of Report Tool

Define a Data Model for a Report

Queries

Groups

Data Links

Specify the Layout for a Report

Report Layout Formats

Frames

Repeating Frames

Fields

Boiler Plate

Specify runtime parameters for a report

Parameters

Parameter Form

Using Oracle Report Interface

Property Sheet

Object Navigator

Report Editor

Tool Palettes and Toolbar

Creating a Default Tabular Report

Creating a new Report Definition
Connecting to the Database
Specifying Data and Layout for the Report
Creating Formula Columns
Creating Summary Columns
Customizing Report Layout

Specifying Report Definition for a Break Report
Group Left Presentation Style
Selecting Break Fields for a Break Report
Arranging Break Report Layout

Module 2

II. Working of a Master/Detail Report

- Creating a Master/Parent Query
- Creating Detail/Child Query
- Connecting a Master Detail Query using a Data Link Object
- Displaying Master/Detail Report using Group Above Presentation Style.

Creating a Master/Detail Report

- Creating a Master/Detail Report Using Multiple Queries
- Creating a Data Link Object
- Creating formula columns
- Creating Group Summary Columns

Parameter Passing in Reports

- Creating a User Parameter
- Setting User Parameters Properties
- Creating a List of Values for User Parameters
 - Static List Of Values
 - Values from the Select Statement

III. What is a Matrix Report

Types of Matrix Reports

- Single Query Matrix Report
- Multi Query Matrix Report

Matrix Group Structure

- Dimension Groups
- Cross Product Groups
- Filler Groups

Matrix/Cross Product Object

Creating a Matrix Report

- Specifying Report Query
- Specify Row and Column Data
- Specifying Cell Data
- Adding Matrix Summary Columns to print 'Down' and 'Across' totals and 'Report' Totals
- Adding Zeros in place of non-existent values
- Creating a Grid for the Matrix Report

Creating User Parameter for Matrix Reports

Module 3

IV. Using PL/SQL With Reports

Types of Report Triggers

Before Parameter Form

After Parameter Form

Before Report

Between Pages

After Report

Controlling Number of records retrieved for a report

Report Audit Trail

Format Triggers

Using Format Trigger to Format Report Fields conditionally

Action Triggers

Drill down reports

Validation Triggers

Validating User Parameters

Group Filter Triggers

