

Level 5 Diploma in Database Developer (991) 191Credits



Unit: Oracle Forms Developer	Total Qualification Time: 280
Exam Paper No.: 2	Number of Credits: 28
Prerequisites: Detailed knowledge of Oracle	Corequisites: A pass or higher in Diploma in
SQL	Database Administration or equivalence

Aim: This unit aims to introduce the fundamentals of building applications with Oracle Forms; part of the Oracle Developer Suite. The unit will provide learners with practical experience of the functionality of Oracle Forms. Oracle Forms is a software product for creating screens that interact with an Oracle Database. It has a typical Integrated Development Environment (IDE) including an object navigator, property sheet and code editor that uses PL/SQL. The primary focus of Forms is to create data entry systems that access an Oracle database. Oracle Developer Forms is a powerful and flexible development tools and it is complex by virtue of its power. Today users leverage their investment by taking advantage of Web technologies by easily and quickly constructing sophisticated database forms and business logic with minimal effort. Learners will use Oracle Forms Developer to rapidly build scalable, high-performance applications for the Internet; build, test, debug, and deploy interactive Internet applications. Working in a graphical user interface (GUI) environment, learners develop an order entry application from the ground up. The unit provides a productive development environment for building enterprise class, scalable database applications for the Internet. The unit is designed to enhance the skills of programmers and software developers who might or might not already be familiar with the basics of Oracle Forms. On completion of this unit, the learners will be able to: Program Key Triggers to enhance standard Forms functionality, Cause Forms to respond to mouse events, Generate timers, Manipulate record groups, Create Master/Detail relationships explicitly, Handle query processing, Control transaction processing, Handle multiple canvas and window applications, Write multi-form applications, Generate customised menus.

Required Materials: Recommended Learning Resources.

Supplementary Materials: Lecture notes and tutor extra reading recommendations.

Special Requirements: The unit requires a combination of lectures, demonstrations, discussions, and hands-on labs

hands-on labs.		
Intended Learning Outcomes:	Assess	ment Criteria:
1. The visual, structural and technical	1.1	Examine Oracle Forms Object Navigator
design of the Forms Builder Main Screen.	1.2	Describe the content of the Object
		Navigator sections
	1.3	Demonstrate how to connect to the
		Database
, Ġ	1.4	Explain the architecture of Oracle Forms
		Services
2. The Oracle Forms Rapid Application	2.1	Describe the Single Block Form.
Development (RAD) environment, the Forms	2.2	Describe the Single block Form with
Runtime environment and the Oracle Internet	2.2	lookup field.
Application Server (IAS) Forms Services.	2.3	Describe the Master/Detail Form.
TAPPENTON SOLVER (1112) TOTALS SOLVES	2.4	Describe Master/Detail Form with
,		lookup fields.
	2.5	Describe Text Items and Display Items
	2.6	Explain Buttons, List Items, Radio
		Groups, and Check Boxes
3. The basic steps for creating a basic data	3.1	Describe Data Block wizard
entry and query form for a single database table	3.2	Describe Layout wizard
	3.3	Demonstrate how to create a data block
		using Data Block wizard
	3.4	Demonstrate how to use Layout wizard
		to lay out items of a data block

3.5 Explain the two main styles for forms 3.6 Demonstrate how to use Layout Editor to move fields and labels 3.7 Demonstrate how to display object properties 3.8 Explain how to save a Form 3.9 Demonstrate how to compile/build a Form 4. The Basic Forms function; the standard actions of the Design Console and the field and window types in the Design Console main screen. 4.1 Demonstrate how to query a form 4.2 Explain how to insert new records 4.3 Demonstrate how to update existing records 4.4 Analyse how to delete records 4.5 Demonstrate exiting the Form 4.6 Explain the Oracle Forms environment for built-in record creation, query, and update modes. 5. The tasks to perform when using Oracle Forms Builder to create a master-detail form. and creating a form with one-master-two-detail data blocks 5. The tasks to perform when using Oracle Forms Builder to create a master-detail form. and creating a form with one-master-two-detail data blocks 5. The tasks to perform when using Oracle Forms Builder to create a master-detail form. and creating a form with one-master-two-detail data blocks 5. The tasks to perform when using Oracle Forms Builder to create a master-detail form. and creating a form with one-master-two-detail data blocks 5. The tasks to perform when using Oracle Forms Builder to create a master-detail form. and creating a form with one-master-two-detail data blocks 6. The tasks to perform when using Oracle Forms Builder to create a master-detail form. and creating a form with one-master-two-detail data blocks 6. The tasks to perform when using Oracle Forms Builder to create a master-detail form. And the field a
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6. How Oracle Forms developers can 6.1 Describe a List of Values
centrally manage List of Values (LOV) 6.2 Explain the steps in creating a List of
components to populate an attribute for one object. Values 6.3 Define Non-Base Table fields
object. 6.3 Define Non-Base Table fields 6.4 Define List-of-Values Components
6.5 Demonstrate creating the ListOfValues
Data Model
6.6 Demonstrate using the
inputListOfValues Component
6.7 Demonstrate using the
InputComboboxListOfValues
Component
6.8 Describe how to use a list-of-values
component to display a model-driven list of objects from which a user can select
6.8 Describe how to use a list-of-values component to display a model-driven list of objects from which a user can select value
7. Various Oracle Forms components for 7.1 Explain how to create procedures in
developing and deploying Forms applications and Oracle Forms
the steps to convert applications from Oracle Forms. 7.2 Explain how to create a Trigger to call the Procedure
7.3 Describe how to create Stored
Procedures in SQL*Plus
7.4 Explain how to generate unique or
consecutive identifiers using the table
7.5 Demonstrate how to generate unique or
consecutive identifiers using an Oracle
Sequence 7.6 Outline how to check constraints at the
client
7.7 Analyse how to add Alerts (Pop-up
Messages)
7.8 Describe how to automate Forms Query

	7.9	Demonstrate how to populate items with
		default values
	7.10	Explain how to attach functionality to
		command buttons
	7.11	Describe how to pass parameters
		between forms
8. Interoperability and compatibility issues	8.1	Demonstrate how to run Oracle Reports
associated with Oracle Reports and how clients	0.1	Builder under Windows
connect to Oracle Reports Servers.	8.2	Examine and identify the Oracle Reports
-		Object Navigator sections
	8.3	Explain the steps in creating Reports in
		Oracle Reports
	8.4	Explain the procedure for creating a
		Single-Table Report
	8.5	Describe the steps for creating a report
		that views the contents of two tables in a
		Master-Detail (one to many) relationship
	8.6	Examine and identify parameter forms in
		Oracle Reports
		X.
9. How to develop menu modules to	9.1	Describe the default menu
replace the Forms default menu, enhance	9.2	Define custom menu
applications by including menu toolbars; pop-up	9.3	Demonstrate how to explicitly specify
menus and modifying the Forms default menu.		the default menu in Forms
	9.4	Describe the Oracle Forms menu
		hierarchy object categories
	9.5	Describe the process of creating a
Made Jack Employee A 21/ 1 and 24/ 21/ 21/ 21/ 21/ 21/ 21/ 21/ 21/ 21/ 21		Custom Menu.

Methods of Evaluation: A 2½-hour written examination paper with five essay questions, each carrying 20 marks. Candidates are required to answer all questions. Candidates also undertake project/coursework in Oracle Forms Developer with a weighting of 100%.

Recommended Learning Resources: Oracle Developer Forms

Text Books	 Oracle Developer Advanced Forms and Reports by Peter Koletzke and Paul Dorsey. ISBN-10: 0072120487 Oracle Forms Interactive Workbook by Baman Motivala. ISBN-10: 0130158089 Oracle Developer Forms Techniques by Bulusu Lakshman. ISBN-10: 0672318466
Study Manuals	BCE produced study packs
CD ROM	Power-point slides
Software	Oracle Database