## Level 5 Diploma in Database Developer (991) 191Credits



Unit: Oracle Forms Developer	Guided Learning Hours: 280	
Exam Paper No.: 2	Number of Credits: 28	
Prerequisites: Detailed knowledge of Oracle	<b>Corequisites:</b> A pass or higher in Diploma in	
SQL	Database Administration or equivalence	
Aim: This unit aims to introduce the fundamentals		
	earners 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 wi		
scalable, high-performance applications for the Inte		
Internet applications. Working in a graphical user in		
order entry application from the ground up. The uni		
for building enterprise class, scalable database appli-		
with the basics of Oracle Forms. On completion of	velopers who might or might not already be familiar	
Triggers to enhance standard Forms functionality, C		
timers, Manipulate record groups, Create Master/De		
processing, Control transaction processing, Handle		
multi-form applications, Generate customised menu		
<b>Required Materials:</b> Recommended Learning Resources.	<b>Supplementary Materials:</b> Lecture notes and tutor extra reading recommendations.	
<b>Special Requirements:</b> The unit requires a combin		
hands-on labs.		
Intended Learning Outcomes:	Assessment 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	
01	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	lookup field.	
Application Server (IAS) Forms Services.	2.3 Describe the Master/Detail Form.	
	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
	27	move fields and labels
	3.7	Demonstrate how to display object
	3.8	properties Explain how to save a Form
	3.8 3.9	Explain how to save a Form Demonstrate how to compile/build a
	5.9	Form
		roim
4. The Basic Forms function; the standard	4.1	Demonstrate how to query a form
actions of the Design Console and the field and	4.2	Explain how to insert new records
window types in the Design Console main screen.	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	5.1	Describe Master-Detail relationship
Forms Builder to create a master-detail form. and	5.2	Describe the steps in creating a Master-
creating a form with one-master-two-detail data blocks	5.3	Detail Form Explain the Relation Properties of a
DIOCKS	5.5	Master-Detail Form
	5.4	Describe the Program Units (PL/SQL
	5.4	Procedures) in a Master-Detail Form
		riocedures) in a Master Detail Form
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	6	Values
object.	6.3	Define Non-Base Table fields
A	6.4	Define List-of-Values Components
	6.5	Demonstrate creating the ListOfValues
		Data Model
$\sim$	6.6	Demonstrate using the
	67	inputListOfValues Component
$\sim 0^{\circ}$	6.7	Demonstrate using the InputComboboxListOfValues
		Component
04	6.8	Describe how to use a list-of-values
4	0.0	component to display a model-driven list
Ġ		of objects from which a user can select a
67		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	7.2	Explain how to create a Trigger to call
Forms.		the Procedure
	7.3	Describe how to create Stored
	74	Procedures in SQL*Plus
	7.4	Explain how to generate unique or
	7.5	consecutive identifiers using the table Demonstrate how to generate unique or
	1.5	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		Builder under Windows
connect to Oracle Reports Servers.	8.2	Examine and identify the Oracle Reports
I I I I I I I I I I I I I I I I I I I		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
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
		Custom Menu.
Methods of Evaluation: A 2 <sup>1</sup> / <sub>2</sub> -hour written exam	ination	
carrying 20 marks. Candidates are required to answ		
project/coursework in Oracle Forms Developer wit		
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## **Recommended Learning Resources:** Oracle Developer Forms

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