ORACLE
DEVELOPER

Innozant

ORACLE DEVELOPER

About the Course

ORACLE DEVELOPER

Oracle Developer Course is designed in professional order. If you are new to SQL, no problem ! you can easily learn all the concepts of SQL, PL/SQL, Forms & Reports.

SQL ANALYTICS

- Become a job ready SQL Developer by learning all the skills you will need.
- Write, Read & Analyze any SQL Queries easily and learn how to play with data.
- Learn Oracle SQL by professionally designed content step-by-step.

PL/SQL

- Anything you need for coding PL/SQL from beginner to advance level.
- Learn and Master PL/SQL by coding with hundreds of practical examples.
- Become a job ready Oracle PL/SQL Developer Certified professional.

FORMS

- Learn how to develop and deploy Oracle Forms.
- End to end knowledge of Oracle Forms.
- Creating of alerts and lov's in forms.

REPORTS

- Learn how to develop and deploy Oracle Reports.
- Creating Report triggers.
- Developing different reports styles.

Program Outcome

- Become job ready to start contributing as a Database Developer.
- Have to ability to solve any SQL problem.
- Program in the SQL language to solve a variety of Database problems.

Who Should Join ?

- Fresher, Under Graduate, Graduate
- Working Professional with NO Prior knowledge required
- You'll learn everything you need to know right from the beginning.

Course Content

SQL ANALYTICS

MODULE -1

Introduction To SQL
- Introduction Database
- Understanding DBMS vs RDBMS
- Gone through SQL Standards
- Sub languages of SQL
- Difference between 10g vs 11g vs 12c
- Installation of 12c
- About SQL*Plus and use of developer tool
- Datatypes in Oracle
- Operators in Oracle
- UNDERSTANDING SCHEMA DESIGN AND OBJECTS

MODULE -2

Data Retrieval Techniques
- How to use select statement in different ways to retrieve records?
- Working with Column alias
- Working with Table alias
- Data filtering and sorting with in single table

Clauses and its types in oracle
- Where clause, Having clause, From clause
- Group by clause, Order by clause, Using clause
- Constraint clause, For update clause

MODULE -3

Working With DDL Commands
- Table creation using CREATE statement
- Creating table from another table
- MODULE – 1 MASTERING SQL
- Dropping a table using DROP command
- Altering the column of a table
- Modifying the column datatype in a table
- Renaming the column of a table
- Renaming an entire table
- Using truncate command
- Difference between Delete and Truncate command

MODULE -4

Working With DML Commands
- How to copy data from one table to another table?
- How to copy the structure alone from a table?
- Different types of inserting row to an existing table
- Updating any value of with in a record using UPDATE command
- Deleting a particular record from a table
- Using merge & insert all command [Implementation of Project 1]

MODULE -5

Integrity Constraints
- How to declare column level constraints?
- How to declare row level constraints ?
- How to add constraints to an existing table?

Types of integrity constraints
- Not null
- Unique key, Primary key
- Referential integrity, Check integrity
- How to enable and disable constraints?
- How to get information about constraints?

MODULE -6

Built In Functions
- Understanding Single row functions
- How to use single row functions using dummy table?

Types of single row functions
- String functions, Date functions
- Mathematical functions, Conversion functions
- Special functions, Analytical functions
- Working with multi row functions [Implementation of Project 2]

MODULE -7

Data Aggregation
Working with aggregate function
- Count(), Sum(),Max(), Min(), Avg()
- Working with group by clause
- Working with having clause
- Difference between WHERE and HAVING clause

MODULE -8

Importance Of JOIN
- Understanding joins and its uses

Types of joins
- Equi join, Non – equi join
- Self join, Outer join
- Left & Right outer join
- Full outer join, Cross join [Implementation of Project 3]

MODULE -9

Set Operators And Pseudo Columns:
How to use set operators in a single table content?
Working with set operator types
- UNION
- UNION ALL
- INTERSECT
- MINUS

Working with pseudo columns using the following
- ROWID
- ROWNUM

MODULE -10

Sub Queries
Importance of sub queries
Using different types of sub queries
- Single row sub queries
- Multi row sub queries
- Nested queries
- Multi column sub queries
- Correlated sub queries
- Using inline views and scalar queries [Implementation of Project 4]

MODULE -11

Database Transaction And Security
- Working with data query language using TCL
- Working with data control language commands
- Use of commit and rollback
- Use of savepoint and set transaction
- How to give system privileges to an user?
- How to invoke and revoke object privileges?
- How to create users and roles?

MODULE -12

Design Of Schema Objects
- Creating and working with Views
- Working with Synonyms
- Creating Index and clusters
- Working with in materialized view
- Understanding sequences and its types 6. [Implementation of Project 5

PL/SQL

PL/SQL (Procedural Language Extension to SQL)

MODULE -13

Introduction To PL/SQL
- Informal introduction to PL/SQL
- Advantages of PL/SQL
- Datatypes in PL/SQL
- Program structure of PL/SQL
- Embedding SQL statements
- Using conditional statements and loops

MODULE -14

Creating And Using Cursors
- What is cursor?
- How to create cursor?
- Using cursors in PL/SQL
- How to create explicit cursor?
- Creation of for loop cursor
- What are cursor parameters?
- How to use for update clause?
- What is ref cursors?
- How to use implicit cursors?

MODULE -14

Understanding Exception Handling
- What is an Exception?
- Describing Exception types
- Handling system defined exceptions
- Handling user defined exceptions?
- Sql code vs Sql errm
- Pragma exception_init

MODULE -15

Creation Of Stored Procedures
- Creating procedures in Pl/SQL

Working with procedure parameters
- IN parameter
- OUT parameter
- INOUT parameter
- **How to create procedures with cursors**
- **How procedures return records?**
- **What is Pragma autonomous transaction?**

MODULE -16

Creating & Using Functions
- Importance of function
- How to create functions?
- Difference between procedures and functions
- How to use inline functions?

MODULE -17

Creating & Using Packages
- What is a Package?
- Reasons to use packages
- What is package specification?
- What is package body?
- How to instantiate package?
- How to initialize instantiated package?
- What are all the package state?

MODULE -18

Triggers In PL/SQL
- How to create triggers?
- Benefits of trigger
- How to trigger a trigger?
- Using DML trigger & DDL trigger
- How to audit database using triggers?
- What are database level trigger?

MODULE -19

Collections In PL/SQL
- What is collection?
- How to use arrays?
- Using nested tables
- How to use index by value?
- Listing types of collection methods
- General overview and discussion about DBA Concepts

ORACLE FORMS

MODULE -20

Introducing Oracle Forms Developer And Forms Services

- Oracle Application Server 12c Architecture
- Benefits And Components Of Oracle Developer Suite 12c
- Running A Forms Developer Application
- Creating Forms Modules
- Overview Of Design And Runtime Interface
- Working With Data Blocks And Frames
- Working With Input Items Non Input Items
- Working With Windows And Canvas
- Creating Runtime And Design Time Editor
- Creating And Using Design Time And Runtime Property Class Visual Attributes
- Creating And Using Application Procedure Function And Package
- Creating Design Time And Runtime List Of Values
- Introducing Record Group And Its Types
- Producing Triggers, Debugging Triggers
- Adding Functionality To Items
- When Time Message And Alerts
- Query Validation Navigation Trigger
- Transaction Processing
- Sharing Objects And Code
- Creating And Changing Connection At Runtime
- Sending Output In All Types Of File Through Forms
- Introducing Runtime And Compile Time Error Errors
- Using Set And Get Property
- Changing Property At Runtime And Design Time
- Using Dynamic SQL In Oracle Forms
- Introducing Multiple Form Applications
- Advance Forms
- File Handling Operation Through Forms
- Introducing Timers
- Development Of Runtime Environment
- Design Application On Tree Structure
- Handling Sequence Of Triggers
- Creating And Using Forms Parameters
- Using Webutil To Interact With The Client

ORACLE REPORTS

MODULE -21

Introduction To Oracle Reports Developer
- Enterprise Reporting
- Oracle Reports Services
- Oracle Ias Reports Services Architecture For The Web
- Designing And Running Reports
- Enhancing A Basic Paper Report
- Managing Report Templates
- Create A Web Report
- Enhancing Reports Using The Data Model Queries And Groups
- And Handling Reports Using The Data Model Data Sources
- Enhancing Reports Using The Data Model Creating Columns
- Enhancing Reports Using The Paper Layout
- Control The Paper Layout Common Properties
- Controlling The Paper Layout Specific Properties
- Web Reporting
- Extending Functionality Using Xml
- Creating And Using Report Library
- Formatting Report At Design And Runtime
- Extending Function Using S R W Package
- Building Reports Efficiency Guidelines
- Advance Reports
- Ref(Reference) Cursor Reports
- Creating Drill Down Report
- Calling A Web Report Web Through Hyperlink In Reports
- Overview Of Report Advance Trigger
- Managing Report Server
- Using Dynamic SQL In Reports

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