

Description

Our Oracle instructor led training course is designed to give a firm foundation on Oracle Database which will cover SQL and PL/SQL concepts which are required to create database objects like tables, views, stored procedures, functions, triggers etc. and also gives idea about writing queries and sub-queries with Joins.

Expectations and Goals

After the completion of the Oracle Course at Ardent, you should be able to:

- Learn how to write basic SQL queries, sorting and filtering data.
- Write DDL and DML queries to create and manage database tables.
- Explore different types of functions available in SQL.
- Apply different joining techniques to database tables and sub queries exploit the concepts like view, sequence, and index synonym. Utility of TCL Command and DCL Command Understand the need of PL/SQL.
- Create cursors and deal with exceptions.
- Learn to use procedures and functions.
- Create packages and triggers.
- Concept of ORDBMS.
- Handling LOB Data Type.

Prerequisites

Basic Knowledge of Computer.

Course Schedule

Module	Торіс
Module 1	Introduction to DBMS & RDBMS
	Normalization
	E R Diagram
Module 2	Basic SQL Construct
	Arithmetic Operation and Expressions
	Importance of NULL values and Concatenate operators
	Column naming conventions
	Restricting and Sorting Data
	Applying where and order by clauses
	Pattern matching using LIKE
	IN Operator
	Logical AND, OR and NOT operators
	Between and Not Between conditions
Module 3	Data Definition Language (DDL)
	Create
	Alter
	Rename
	Truncate
	Drop
	Purge
	Data Manipulation Language (DML)
	Inserting rows
	Updating rows

	Deleting rows
	Merge Statement
	Functions in SQL and Subquery
	Single Row Functions
	Character functions
	Number functions
	Date functions
	Other functions (NVL,NVL2,COALESCE,decode)
	Multi Row Functions
Module 4	Aggregate functions
	Group by clause
	Group by clause with NVL function
	Having clause
	Subquery
	Need of subqueries
	Types of subqueries
	Subquery operators
	Joining Tables,TCL Command &DCL Command
Module 5	Inner Join, Outer Join, Left outer, Right outer,
	Full outer, Non Equi-Join,Self-Join
	TCL command
	Commit,rollback,save point
	DCL command
	Grant, Revoke
	View,Sequence,Index,Synonym
Module 6	Views
	Need of views
	Creating and Querying a view
	Simple and Complex Views
	DML on views
	Sequence
	Index
	Synonym
Module 7	Introduction to PL/SQL
	Basics of PL/SQL
	PL/SQL block structure
	Data types and variables
	Operators and %TYPE attribute
	Writing a PL/SQL program
	Control Structures
	IF-THEN-ELSE statement
	Basic, while and for loops
	%ROWTYPE attribute

	Cursors and Exception Handling
Module 8	Introduction to cursors Types of cursors
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	Creating, using and deleting a cursor Cursor attributes
	Exception Handing
	Need of handling exception
	Predefined and non-predefined exceptions
	User defined exceptions
	Raising and trapping exceptions
Module 9	Procedures and Functions
	Need of procedures
	Block structure of a procedure
	Creating and invoking a procedure with IN and OUT parameters
	Altering and Dropping a procedure
	Need of functions over procedures
	Block structure of a functions
	Creating and invoking a function
	Altering and Dropping a function
	Packages and Triggers
	Concept of a package
Module 10	Creating a package using package header and package body
	Invoking package members in a PL/SQL program with an example
	Dropping a package
	Definition of trigger
	Creating a DDL trigger with an example
	Creating a DML trigger with an example
	Dropping a trigger
	ORDBMS
Module 11	Object
Module 11	VArray
	Nested Table
Module 12	Handling LOB Data Types
	CLOB
	BLOB
Module 13	Architecture Of Oracle
Modulo 14	Export And Import
Module 14	DataPump
Modulo 15	Loading Data From Flat File into the Table
Module 15	SQLLOADER
	Performance Tuning
Module 16	Index
	Materialized view
	Cache Table
	Partitioned Table
Module 17	Project work and documentation