

## Oracle SQL:

(40 hours)

Introduction to Oracle DB

Terminologies associated with DB

Normalization and its types

Boyce Code 12 Rules

E-R Diagram

Select Query

Where clause

Distinct keyword

Alias in the query

Orderby clause

Predefined Functions

Types of functions

String based function

Number based function

Date based function

Conversion function

General functions

Working with Joins

Natural Join

Equi Join

Non-equi Join

Outer Join

Cross Join

Self-Join

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## Deep dive into Subquery

- Single row subquery
- Multiple row subquery
- Multiple-column subquery
- Co-related subquery
- Multiple-row subquery operators
- Creating a table via subquery
- Inserting records via subquery

## DDL Queries

- Creation of table
- Altering the table
- Deletion of table
- Truncation of table
- Rename a column in the table

## DML Queries

- Inserting a record
- Updating a record
- Deletion of a record

## TCL Queries

- Introduction to transaction
- Commit a transaction
- Rollback a transaction

## DCL Queries

- Grant a privilege
- Revoke a privilege

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Working with Views

Simple View

Complex View

Index and its types

Creation of Sequence

Data Dictionary tables

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## **PLSQL:**

(30 hours)

### Fundamentals

Introduction to PLSQL

Benefits of PLSQL

PLSQL Block Structure

### Defining Variables and Datatypes

Using Variables in PL/SQL

Recognizing PL/SQL Lexical Units

Recognizing Data Types

Using Scalar Data Types

Using Composite Data Types

Writing PL/SQL Executable Statements

Nested Blocks and Variable Scope

### Using SQL in PL/SQL

Review of SQL DML

Retrieving Data in PL/SQL

Manipulating Data in PL/SQL

### Program Structures to Control Execution Flow

Conditional Control: IF Statements

Conditional Control: CASE Statements

Iterative Control: Basic Loops

Iterative Control: WHILE and FOR Loops

Iterative Control: Nested Loops

### Using Cursors and Parameters

Introduction to Explicit Cursors

Using Explicit Cursor Attributes

Cursor FOR Loops

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Cursors with Parameters

Using Cursors for UPDATE

Reference Cursors

Exception Handling

Handling Exceptions

Trapping Oracle Server Exceptions

Trapping User-Defined Exceptions

Recognizing the Scope of Exceptions

Using and Managing Procedures

Creating Procedures

Using Parameters in Procedures

Passing Parameters

Using and Managing Functions

Creating Functions

Using Functions in SQL Statements

Review of the Data Dictionary

Using and Managing Packages

Creating Packages

Managing Package Concepts

Advanced Package Concepts

Cursors within the package

Persistent State of Package Variables

Using Oracle-Supplied Packages



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## Using and Managing Triggers

Introduction To Triggers

Creating DML Triggers

Statement level and Row-level triggers

Creating Database Event Triggers

Managing Triggers

## Improving PL/SQL Performance

Using Dynamic SQL

Improving PL/SQL Performance

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