

## Oracle – SQL PL SQL Training Content

TOPIC	DURATION (30 Hrs)
<b>❖ Introduction to SQL</b>	<b>2 Hrs</b>
<p>Introduction to SQL constructs Review of Basic SQL statements Restricting row returns using Where clause Types of Database Steps</p>	
<p>Lab: investigate the EMP database write a sample query in the emp database write a sample query in the emp database</p>	
<b>❖ Operator and Joins</b>	<b>4 Hrs</b>
<p>Joining Oracle tables Equi-join Exercise – write an equi-join Outer join Exercise – write an outer join Hiding joins by creating views Exercise – create a view of a join Using IN, NOT IN, EXISTS and NOT EXISTS Subqueries</p>	
<p>Lab: write a subquery Correlated subquery Non-correlated subqueries Advanced SQL operators Between operator IN and NOT In operators Sub-queries EXISTS clause Using wildcards in queries (LIKE operator) Aggregation in SQL Count (*) Sum Avg Min and max Using the group by clause SQL access methods</p>	

<p>Review of Basic joining methods Merge join Hash Join Nested Loop join Advanced SQL operators Between operator</p>	
<p><b>❖ Database Objects</b></p>	<p><b>4 Hrs</b></p>
<p>Creation of View, Materialize view, Database Link, Character Functions, Number Functions and Date Functions</p>	
<p>Lab: Creation of above objects</p>	
<p><b>❖ Basics of PL/SQL</b></p>	<p><b>10 Hrs</b></p>
<p>PL/SQL architecture PL/SQL and SQL*Plus PL/SQL Basics Variables Constant s Datatype s Error messages – user errors and show errors</p> <p>PL/SQL wrapper utility Simple blocks Control structures PL/SQL records Recognizing the Basic PL/SQL Block and Its Sections Describing the Significance of Variables in PL/SQL Distinguishing Between PL/SQL and Non-PL/SQL Variables Declaring Variables and Constants Executing a PL/SQL Block Defining exceptions Using the when others clause Ensuring complete error checking Passing error messages to calling routine Boolean logic in PL/SQL</p> <p>Identifying the Uses and Types of Control</p>	

<p>Structures Constructing an IF Statement Constructing and Identifying Different Loop Statements Controlling Block Flow Using Nested Loops and Labels Using Logic Tables If-then-else structure</p>	
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<p>Testing for numbers characters and Booleans Cursors in PL/SQL Cursor basics Using a cursor for a multi-row SQL query Iteration in PL/SQL For loop While loop</p>	
<p><b>❖ PL/SQL</b></p>	<p><b>10 Hrs</b></p>
<p>Defining PL/SQL tables Reasons to use PL/SQL tables Populating a PL/SQL table Retrieving from a PL/SQL table Dynamic SQL in PL/SQL</p> <p>Introduction to the dbms_sql package Creating a dynamic SQL statement Nested blocks in PL/SQL Creating nested blocks Understanding scope in nested blocks Triggers in PL/SQL Triggers and database events Defining a trigger Timing a trigger Enabling and disabling a trigger Stored procedures, functions and packages Basics of stored procedures Basics of functions Basics of packages Defining stored procedures &amp; functions Function and stored procedures prototypes Passing arguments to functions and stored procedures Recompiling functions and stored procedures Package forward declaration Package dependency Listing package information</p>	



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