**Module: SQL**

**Duration: 5 Days**

• Simple SQL Queries with SELECT, FROM, WHERE, ORDER BY clauses and Wildcards

• Retrieving Data from Multiple Tables - Inner, Left outer, Right outer and Full outer table joins, COALESCE Function, UNION and UNION ALL , INTERSECT and EXCEPT Statements,

• Maintaining data : INSERT, UPDATE and DELETE rows

• Using Subqueries : Simple & Nesting Subqueries

• Queries using CASE and CAST

• Code simple CREATE TABLE ,CREATE VIEW statements, Column INDEXES, Column definition – DEFAULT and NULL

• Use various functions to perform calculations on data.

• Organize the data obtained from a query before it is displayed on-screen : Scalar Functions and Arithmetic Column Functions and Grouping (DISTINCT and GROUP BY), Sort, Rank , filter data, Use PIVOT and UNPIVOT Operators

Additional topics to be included in training & to be covered at end of training program :

• #1 Difference between OLTP vs OLAP

• #2 Materialized views.

• #3 Partition the tables for better management and optimization.

• #4 Hierarchical and Tree-structured query.

• #5 Concepts of Dimensions and FACT Tables

• #6 Snowflake and STAR Schema

• #7 SQL functions like ROLLUP and CUBE operators.