SQL SERVER

This is one of the most important programming languages for working on large databases. This creates a huge demand for SQL Developers who can parse all that Big Data and convert them into business insights.

Course Syllabus

Module 1: - Introduction to Basic Database Concepts

1.1 What is Data, Field, Record and database?

1.2 Limitations of File Management System.

1.3 Basic Concepts of Advantages of DBMS.

Section 2: Introduction to SQL Server

2.1 What is SQL Server Version history and different editions

2.2 Basic Features Components and Tools

2.3 Starting and Stopping SQL Server Instances / Services

2.4 Introduction to Management Studio

2.5 Types of System Databases in SQL

Module 3: Introduction to SQL

3.1 Basics of SQL Types of SQL Statements

3.2 DDL, DML, DQL, DCL and TCL

3.3 Create Database using Management Studio

3.4 Datatypes in SQL Server

3.5 Exploring DDL Statements on Table using Management Studio

Module 4: DDL and DML Statements

4.1 Why write statements in Frontends?

4.2 Create, Alter and Drop Table Insert

4.3 Update and Delete Statement Truncate Statement

Module 5: Working with Queries (DQL)

5.1 Understanding Select Statement

5.2 Usage of Top, Distinct, Null etc...keywords

5.3 Using String and Arithmetic Expressions

5.3 Exploring Where Clause with Operators

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5.3 Working with basic of Sub Queries

Module 6: Aggregate Functions

6.1 Using functions in Queries

6.2 Count, Sum, Min, Max, Avg Group By and Having Clause

Module 7: Joins and Set Operations

7.1 Introduction to Joins Cross Joins

7.2 Inner Join

7.3 Outer Join

7.4 Self Join

7.5 Co-related Sub Queries

Module 8: Working with Constraints

8.1 Unique

8.2 Not NULL

8.3 Primary Key

8.4 Default Check Foreign Key

Module 9: Working with Stored Procedures and Functions

9.1 Introduction to stored procedures

9.2 Benefits of Stored Procedures

9.3 Creating, Executing Modifying, Dropping

9.4 System defined SP's and Functions

9.5 User defined Functions