Dt: 11.03.2024

# **SQL Training Session – 2**

***Topics Covered***

1. Introduction to SQL
2. Introduction to SQL Server

**Introduction to SQL:**

SQL is a short-form of Structured Query Language. This database language is mainly used for maintaining the data in relational database management. We can easily create and manipulate the database, access and modify the table rows and columns, etc.

* The basic use of SQL for data professionals and SQL users is to insert, delete, update the data from the relational database.
* SQL allows the data professionals and users to retrieve the data from relational database management systems.
* It allows SQL users to create, drop, and manipulate the database and its tables.
* It also helps in creating the stored procedures, views, and functions in relational database.
* It also allows SQL users to set the permissions or constraints on table columns, views and stored procedures.

The SQL commands help in creating and managing the database. The most common SQL commands used are:

* CREATE Command: This command helps in creating the new database, new table, table view, and other objects of the database.
* UPDATE Command: This command helps in updating or changing the stored data in the database.
* DELETE Command: This command helps in removing or erasing the saved records from the database tables. It erases single or multiple tuples from the tables of the database.
* SELECT Command: This command helps in accessing the single or multiple rows from one or multiple tables of the database. We can also use this command with the WHERE clause.
* DROP Command: This command helps in deleting the entire table, table view, and other objects from the database.
* INSERT Command: This command helps in inserting the data or records into the database tables. We can easily insert the records in single as well as multiple rows of the table.

*Ref:* [*https://www.javatpoint.com/sql-tutorial*](https://www.javatpoint.com/sql-tutorial)

**Introduction to SQL Server:**

SQL Server is software application (A Relational Database Management System) developed by Microsoft. It is also called MS SQL Server.

It is mainly used to store and retrieve data for the same or other applications. It is also called MS SQL Server, which is an ORDBMS, platform-dependent, and can work on GUI and command-based software.

The key interface tool for SQL Server is SQL Server Management Studio (SSMS).

* Its main purpose is to build and maintain databases.
* It is used to analyse the data using SQL Server Analysis Services (SAAS).
* It is used to generate reports using SQL Server Reporting Services (SSRS).
* IT is used to perform ETL operations using SQL Server Integration Services (SSIS).

*Ref:* [*https://www.javatpoint.com/sql-server-tutorial*](https://www.javatpoint.com/sql-server-tutorial)