**SQL**

SQL(Structured Query Language) is a standard language for manipulating

and sorting the stored data in the data base.

**What is data base?**

Data base is the place where the large amount of data about something will be kept. It is in the form of table.

**Table in database:**

Normally table is in the form of rows and columns. Here, we use table to store data in the form of rows and columns (The verticals are columns and the horizontals are columns).

**Various data bases used across the world:**

* My SQL
* SQL lite
* Mangodb
* Oracle
* PostgreSQL

**Tools used in SQL:**

* SQLplus
* SQL developer
* PL SQL

**Data types in SQL:**

An attribute which is used to identify the given data whether it is number or character or both number and character or it is in the date format. We can classify the data inside the table by its data type.

* Num
* Char
* Varchar
* Varchar2
* Date

**DDL**

To define and manage the database structure we use DDL (Data Definition Language) method.

**Types:**

* Create
* Truncate
* Drop
* Alter

1. Insert
2. Update
3. Delete

**Create:**

Used to create a table

**Syntax:**

Create table (table name)

**Truncate:**

Used to clear the data inside the table except the structure and column.

**Syntax:**

Truncate Table (Tablename)

**Drop:**

Used to clear the whole page including the structure.

**Syntax:**

Drop Table (Tablename)

**Alter:**

It is used in the column level change.

1. **Add**

Used to add a column in the existing table

**Syntax:**

Alter Table (Tablename)

Add Column name Datatype (size if required);

1. **Modify:**

Used to change the datatype of the data inside the table.

**Syntax**:

Alter Table Table name

Modify Column name New datatype(size if required);

1. **Rename:**

Used to rename the existing column name

**Syntax:**

Alter Table Table name

Rename column Old column name to New column name;

1. **Drop:**

Used to clear a column.

**Syntax:**

Alter Table Table name

Drop Column Column name;