**SQL**

**SQL** stands for Structured Query Language.

It is a standard language used to storing, manipulating and retrieving data from the Databases. The SQL query is used to extract data from the database, update the database, delete data from the database and more.

To use SQL in websites

An RDBMS program is required like MS ACCESS, MySQL etc..

A server side scripting language like php or asp

A sql program to retrieve the data

HTML and CSS program to style the webpage

RDBMS

RDBMS stands for Relational Database Management System. It is the Basis of SQL and all the modern databases.

The data stored in RDBMS as Data objects called Tables which consists of rows and columns.

Fields:

A table is broken into a smaller entities called fields.

Fields is called columns which has the specific information of data.

Records:

A records is individual entries of the data in the table.

Syntax:

SELECT \* FROM Customers;

It selects all the information from the table customers.

Commonly used commands in SQL are,

SELECT- extracts the data

UPDATE- update the data in the database

INSERT IN – Inserts the data

CREATE DATABASE- Creates a new database

ALTER DATABASE – modifies the database

DELETE – deletes the data

CREATE TABLE – creates a new table

ALTER TABLE – Modifies a table

DROP TABLE – deletes a table

Statements:

SELECT CustomerName, City FROM Customers;

Extracts all the data from the column Customername and city from the table Customers.

SELECT DISTINCT city FROM Customers;

Selects only distinct values.

SELECT COUNT (DISTINCT City) FROM Customers;

Counts only the Distinct values.

WHERE:

SELECT \* FROM Customers

WHERE City=’London’;

WHERE Filters the result

WHERE CustomerId=1;

Operators in WHERE

=

<

>

<=

>=

<>

Between

LIKE

In

ORDER BY

It sorts the result from the table In Ascending or Descending order

SELECT \* FROM Customers

ORDER BY CustomerId;

Sorts in ascending order

ORDER BY CustomerId DESC;

Sorts In descending order

It also sort the alphabets

ORDER BY Name;

ORDER BY Name DESC;

So that’s all I learned newly today.