**DBMS** - Database management system

Store and manage large amount of data.

**SQL** - Structured Query language

We can create, update, delete tables using sql queries.

DDL - Data Definition language -- create , alter, drop, truncate.

DML - Data Manipulation language -- insert, update, delete

DQL - Data Query language -- select.

**create database** - create database database\_name

**DELETE ROW**

DELETE FROM TABLE\_NAME WHERE COLOUMN\_NAME = VALUE

FOR DELETE WHOLE TABLE

TRUNCATE TABLE TABLE\_NAME

CREATE TABLE PRODUCT

(

prd\_id int(10) PRIMARY KEY AUTO\_INCREMENT,

prd\_name varchar(200),

prd\_price varchar(200),

prd\_desc\_price varchar(200),

cate\_id\_fk int(10),

sbcate\_id\_fk int(10),

FOREIGN KEY(cate\_id\_fk) REFERENCES category (cate\_id),

FOREIGN KEY (subcate\_id\_fk) REFERENCES subcategory(subcate\_id)

)

get data from values

SELECT \* FROM Table\_Name coloumn\_name = value

SELECT \* FROM Table\_Name coloumn\_name >= value

SELECT \* FROM Table\_Name coloumn\_name <= value

SELECT \* FROM Table\_Name coloumn\_name between value1 and value2

SELECT \* FROM Table\_Name ORDER By coloumn\_name ASC/DESC

MAX/MIN

select **MAX**(Coloumn\_name) from Table name

select **MIN**(Coloumn\_name) from Table name

COUNT (TOTAL PRODUCTS)

SELECT **COUNT**(COLOUMN\_NAME) FROM TABLE\_NAME

SUM

SELECT **SUM**(COLOUMN\_NAME) FROM TABLE\_NAME

AVERAGE

SELECT **AVG**(COLOUMN\_NAME) FROM TABLE\_NAME

**FIND PRODUCTS FROM LETTER**

SELECT \* FROM PRODUCT WHERE PRD\_NAME LIKE **‘D%’**

SELECT \* FROM PRODUCT WHERE PRD\_NAME LIKE **‘%S’**

**FIND PRODUCTS WHICH CONTAIN PARTICULAR ANY LETTER**

SELECT \* FROM PRODUCT WHERE PRD\_NAME LIKE **‘%S%’**

**FIND FROM POSSITION OF LETTERS WITH (\_)**

SELECT \* FROM PRODUCT WHERE PRD\_NAME LIKE **‘\_S%’**

**FIND FROM START OR END**

SELECT \* FROM PRODUCT WHERE PRD\_NAME LIKE **‘D%S’**

**JOINS:-**

🡪TO JOIN TWO OR MORE TABLES WHICH ARE RELATED TO EACH OTHER

TYPES OF JOINS:-

1. INNER JOIN
2. OUTER JOIN
3. LEFT JOIN
4. RIGHT JOIN
5. FULL JOIN

**JOIN WITH TWO TABLES**

SELECT TABLE\_NAME.COLOUMN\_NAME, TABLENAME.COLOUMN\_NAME FROM TABLE\_NAME(1) JOIN TABLE\_NAME(2) ON TABLE.PK = TABLE.FK

**JOIN WITH 3 TABLES**

SELECT CATEGORY.CAT\_NAME, SUBCATEGORY.SUBCAT\_NAME, PRODUCT.PRD\_NAME, PRODUCT.PRD\_PRICE, PRODUCT.PRD\_DESC\_PRICE

JOIN SUBCATEGORY ON CATEGORY.CAT\_ID = SUBCATEGORY.CATE\_ID\_FK

JOIN PRODUCT ON CATEGORY.CATE\_ID = PRODUCT.CATE\_ID\_FK