**Sorting last 3 characters and salary:**

create table Department(

Dept\_id integer Primary Key,

Dept\_Name varchar(20));

insert into Department values(101, "HR");

insert into Department values(102, "Finanace");

insert into Department values(103, "Accounts");

insert into Department values(104, "Technology");

insert into Department values(105, "MBA");

-- select \* from Department;

-- SELECT \* FROM Employeesalary where Salary > 20000 ORDER BY SUBSTRING(Name, -3) asc ,Salary desc;

**Inner Join:**

create table Students(

Student\_id integer,

Student\_Name varchar(20),

Gender varchar(20),

Dept\_id integer,

CONSTRAINT STDept\_id PRIMARY KEY (Student\_id,Dept\_id));

insert into Students values(501,"Anuska","Female",102);

insert into Students values(502,"Anjali","Female",104);

insert into Students values(503,"Shivani","Female",103);

insert into Students values(504,"vipin","male",101);

insert into Students values(505,"kailsas","male",102);

insert into Students values(506 ,"akhilesh","male",105);

insert into Students values(507 ,"mahesh","male",101);

insert into Students values(508 ,"ramesh","male",104);

insert into Students values(508 ,"rajesh","male",103);

insert into Students values(509 ,"aman","male",105);

insert into Students values(510 ,"sailesh","male",103);

select dt.Dept\_Name, count(st.Dept\_id) from Students st inner join Department dt on st.Dept\_id = dt.Dept\_id group by st.Dept\_id order by count(st.Dept\_id) desc, dt.Dept\_Name;

create table Sticks (

stick1 integer,

stick2 integer,

stick3 integer

);

**Query the Triangle – Switch Case in MySQL**

insert into Sticks values(10,10,10);

insert into Sticks values(10,10,20);

insert into Sticks values(5,5,20);

insert into Sticks values(10,15,20);

select \* from Sticks;

select

case

when Stick1 + Stick2 < Stick3 or Stick2 + Stick3 < Stick1 or Stick1 + Stick3 < Stick2 then "None"

when Stick1 = Stick2 and Stick2= Stick3 and Stick1 = Stick3 then "Equilateral trianle"

when Stick1 = Stick2 or Stick2 = Stick3 or Stick1 = Stick3 then "Isosceles Triangle"

when Stick1 != Stick2 and Stick2 != Stick3 and Stick1 != Stick3 then "Scalen Triangle"

END

from Sticks;

**Query multiple tables**

select c.company\_code,c.founder,

(select count(\*) from Lead\_Manager where company\_code = c.company\_code ),

(select count(\*) from Senior\_Manager where company\_code = c.company\_code),

(select count(\*) from Manager where company\_code = c.company\_code),

(select count(\*) from Employee where company\_code = c.company\_code)

from Company c order by c.company\_code asc;

**Query Name concat with first character of Profession under parathesis and second query**

**Concat string with number of person in profession with profession order by asc**.

select concat(Name,'(',LEFT(Occupation,1),')')from Occupations order by Name;

select concat('There are a total of ',count(Occupation),' ',lower(Occupation),'s','.') from Occupations group by Occupation order by count(Occupation) asc,Occupation asc;

**Query City starting and ending with vowels;**

select city from station where city RLIKE '^[aeiouAEIOU].\*[aeiouAEIOU]$';