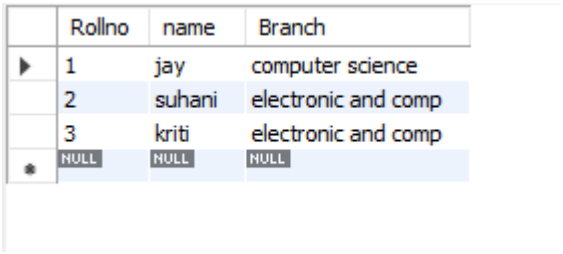
Task

Task 1 : Create Table Name : Student and Exam

```
create database studinfo;
use studinfo;
create table student(
Rollno int auto_increment primary key,
name varchar(20),
Branch varchar(20));
insert into student (name,Branch) values
('jay','computer science'),
('suhani','electronic and comp'),
('kriti','electronic and comp');

select * from student;
```



Rollno	name	Branch
1	jay	computer science
2	suhani	electronic and comp
3	kriti	electronic and comp
NULL	NULL	NULL

```
create table Exam(
S_code varchar(20),
Marks int,
P_code varchar(10),
Rollno int,
foreign key(Rollno) references student(Rollno));
insert into Exam ( Rollno,S_code,Marks,P_code)values
('1','CS11','50','CS'),
('1','CS12','60','CS'),
('2','EC101','66','EC'),
('2','EC102','70','EC'),
('3','EC101','45','EC'),
('3','EC102','50','EC');
```

SELECT * FROM Exam;

S_code	Marks	P_code	Rollno
CS11	50	CS	1
CS12	60	CS	1
EC101	66	EC	2
EC102	70	EC	2
EC101	45	EC	3
EC102	50	EC	3

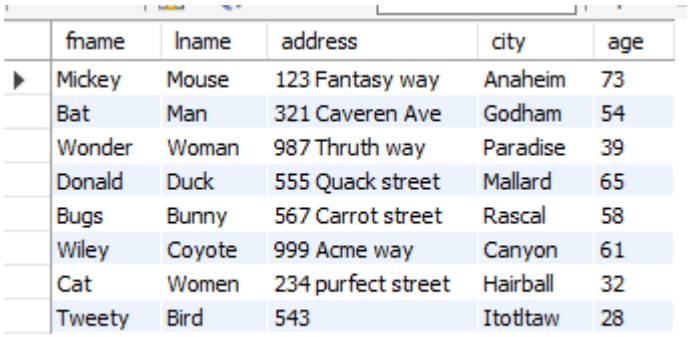
Task 2: Create table given below

```
create database details;
use details;

create table pdetails(
fname varchar(20) unique ,
lname varchar(20) unique ,
address varchar(50) ,
city varchar(20),
age int);

insert into pdetails( fname,lname,address,city,age) values
('Mickey','Mouse','123 Fantasy way','Anaheim','73'),
('Bat','Man','321 Caveren Ave','Godham','54'),
('Wonder','Woman','987 Thruth way','Paradise','39'),
('Donald','Duck','555 Quack street','Mallard','65'),
('Bugs','Bunny','567 Carrot street','Rascal','58'),
('Wiley','Coyote','999 Acme way','Canyon','61'),
('Cat','Women','234 purfect street','Hairball','32'),
('Tweety','Bird','543','ltotltaw','28');

select * from pdetails;
```



fname	lname	address	city	age
Mickey	Mouse	123 Fantasy way	Anaheim	73
Bat	Man	321 Caveren Ave	Godham	54
Wonder	Woman	987 Thruth way	Paradise	39
Donald	Duck	555 Quack street	Mallard	65
Bugs	Bunny	567 Carrot street	Rascal	58
Wiley	Coyote	999 Acme way	Canyon	61
Cat	Women	234 purfect street	Hairball	32
Tweety	Bird	543	Itotltaw	28

Task 3: Create table given below: Employee and Incentive

```
create database office;
use office;
create table Employe(
Employe_id int primary key auto_increment,
first_name varchar(20),
last_name varchar(20),
salary float,
joining_date datetime,
department varchar(30));
insert into Employe(first_name,last_name,salary,joining_date,department)values
('john','abraham','1000000','2013-01-01 12:00:00', 'banking'),
('micheal','clarke','800000','2013-01-01 12:00:00', 'insurance'),
('roy','thomas','700000','2013-02-01 12:00:00', 'banking'),
('tom','jose','600000','2013-02-01 12:00:00', 'insurance'),
('jerry','pinto','650000','2013-02-01 12:00:00', 'insurance'),
('philip','mathew','750000','2013-01-01 12:00:00', 'service'),
('testname1','123','650000','2013-01-01 12:00:00', 'sevice'),
( 'testname2','lname','600000','2013-02-01 12:00:00', 'insurance');
select *from Employe;
```

Employe_id	first_name	last_name	salary	joining_date	department
1	john	abraham	1000000	2013-01-01 12:00:00	banking
2	micheal	clarke	800000	2013-01-01 12:00:00	insurance
3	roy	thomas	700000	2013-02-01 12:00:00	banking
4	tom	jose	600000	2013-02-01 12:00:00	insurance
5	jerry	pinto	650000	2013-02-01 12:00:00	insurance
6	philip	mathew	750000	2013-01-01 12:00:00	service
7	testname1	123	650000	2013-01-01 12:00:00	sevice
8	testname2	lname	600000	2013-02-01 12:00:00	insurance
NULL	NULL	NULL	NULL	NULL	NULL

```
create table incentive(
Employe_ref_id int,
foreign key (Employe_ref_id) references Employe(Employe_id),
incentive_date date,
incentive_amount float);
insert into incentive(Employe_ref_id,incentive_date,incentive_amount)values
('1','2013-02-01','5000'),
('2','2013-02-01','3000'),
('3','2013-02-01','4000'),
('1','2013-01-01','4500'),
('2','2013-01-01','3500');
select * from incentive;
```

Employe_ref_id	incentive_date	incentive_amount
1	2013-02-01	5000
2	2013-02-01	3000
3	2013-02-01	4000
1	2013-01-01	4500
2	2013-01-01	3500

a) Get First_Name from employee table using Tom name “Employee Name”.

```
select * from employe where first_name='tom';
```

Employe_id	first_name	last_name	salary	joining_date	department
4	tom	jose	600000	2013-02-01 12:00:00	insurance
NULL	NULL	NULL	NULL	NULL	NULL

b) Get FIRST_NAME, Joining Date, and Salary from employee table.
select first_name,joining_date,salary from employe;

first_name	joining_date	salary
john	2013-01-01 12:00:00	1000000
micheal	2013-01-01 12:00:00	800000
roy	2013-02-01 12:00:00	700000
tom	2013-02-01 12:00:00	600000
jerry	2013-02-01 12:00:00	650000
philip	2013-01-01 12:00:00	750000
testname1	2013-01-01 12:00:00	650000
testname2	2013-02-01 12:00:00	600000

c) Get all employee details from the employee table order by First_Name Ascending and Salary descending?
select first_name,salary from employe order by first_name asc,salary desc;

first_name	salary
jerry	650000
john	1000000
micheal	800000
philip	750000
roy	700000
testname1	650000
testname2	600000
tom	600000

d) Get employee details from employee table whose first name contains ‘J’.
select * from employe where first_name like 'j%';

Employe_id	first_name	last_name	salary	joining_date	department
1	john	abraham	1000000	2013-01-01 12:00:00	banking
5	jerry	pinto	650000	2013-02-01 12:00:00	insurance
NULL	NULL	NULL	NULL	NULL	NULL

e) Get department wise maximum salary from employee table order by salary ascending?

select department,max(salary) from employe group by department order by max(salary)asc;

department	max(salary)
sevice	650000
service	750000
insurance	800000
banking	1000000

f) Select first_name, incentive amount from employee and incentives table for those employees who have incentives and incentive amount greater than 3000

select employe.employe_id,
employe.first_name,incentive.employe_ref_id,incentive.incentive_amount
from employe cross join incentive on
employe.employe_id=incentive.employe_ref_id
where incentive_amount>3000;

employe_id	first_name	employe_ref_id	incentive_amount
1	john	1	5000
3	roy	3	4000
1	john	1	4500
2	micheal	2	3500

g) Create After Insert trigger on Employee table which insert records in view table

```
delimiter //
create trigger employe_data
 after  insert
on employe for each row
begin
insert into viewtable(
first_name,last_name,salary,joining_date,department,joined_at)values
(new.first_name,new.last_name,new.salary,new.joining_date,new.department,n
ow());
end;
```

//

insert into Employe(first_name,last_name,salary,joining_date,department)values
('sanket','chauhan',300000,' 2024-11-11 12:00:00 ','banking');
select *from employe;

Employe_id	first_name	last_name	salary	joining_date	department
1	john	abraham	1000000	2013-01-01 12:00:00	banking
2	micheal	clarke	800000	2013-01-01 12:00:00	insurance
3	roy	thomas	700000	2013-02-01 12:00:00	banking
4	tom	jose	600000	2013-02-01 12:00:00	insurance
5	jerry	pinto	650000	2013-02-01 12:00:00	insurance
6	philip	mathew	750000	2013-01-01 12:00:00	service
7	testname1	123	650000	2013-01-01 12:00:00	sevice
8	testname2	lname	600000	2013-02-01 12:00:00	insurance
9	sanket	chauhan	300000	2024-11-11 12:00:00	Banking
10	sanket	chauhan	300000	2024-11-11 12:00:00	Banking
NULL	NULL	NULL	NULL	NULL	NULL

First_name	Last_name	Salary	Joining_date	Department	joined_at
sanket	chauhan	300000	2024-11-11 12:00:00	Banking	2024-11-16
sanket	chauhan	300000	2024-11-11 12:00:00	Banking	2024-11-16

Task 4: Create table given below: Salesperson and Customer

create database newdb;

use newdb;

create table salesperson(

SNo int primary key,

SNAME VARCHAR(20),

CITY VARCHAR(20),

COMM decimal(10,2));

INSERT INTO salesperson(SNo,SNAME,CITY,COMM)VALUES

('1001','Peel','london','.12'),

('1002','Serres','San jose','.13'),

('1004','Motika','london','.11'),

('1007','Rafkin','Barcelona','.15'),

('1003','Axelrod','New York','.1');

select * from salesperson;

	SNo	SNAME	CITY	COMM
▶	1001	Peel	london	0.12
	1002	Serres	San jose	0.13
	1003	Axelrod	New York	0.10
	1004	Motika	london	0.11
	1007	Rafkin	Barcelona	0.15
*	NULL	NULL	NULL	NULL

create table customer(

CNM INT primary key,

CNAME VARCHAR(20),

CITY VARCHAR(20),

RATING INT,

SNo int,

FOREIGN KEY (SNo) REFERENCES salesperson(SNo));

insert into customer(CNM,CNAME,CITY,RATING,SNo)values

('201','Hoffman','London','100','1001'),

('202','Giovanne','Roe','200','1003'),

('203','Liu','San jose','300','1002'),

('204','Grass','Barcelona','100','1002'),

('206','Clemens','London','300','1007'),

('207','Pereira','Roe','100','1004');

SELECT * FROM customer;

	CNM	CNAME	CITY	RATING	SNo
▶	201	Hoffman	London	100	1001
	202	Giovanne	Roe	200	1003
	203	Liu	San jose	300	1002
	204	Grass	Barcelona	100	1002
	206	Clemens	London	300	1007
	207	Pereira	Roe	100	1004
*	NULL	NULL	NULL	NULL	NULL

a) Names and cities of all salespeople in London with commission above 0.12
select SNAME,CITY from salesperson where COMM >=.12 AND CITY= 'london';

	SNAME	CITY
▶	Peel	london

b) All salespeople either in Barcelona or in London

select * from salesperson where city ='Barcelona'or city = 'london';

	SNo	SNAME	CITY	COMM
▶	1001	Peel	london	0.12
	1004	Motika	london	0.11
	1007	Rafkin	Barcelona	0.15
*	NULL	NULL	NULL	NULL

c) All salespeople with commission between 0.10 and 0.12. (Boundary values should be excluded).
select * from salesperson where COMM > 0.10 or COMM < 0.12;

	SNo	SNAME	CITY	COMM
▶	1001	Peel	london	0.12
	1002	Serres	San jose	0.13
	1003	Axelrod	New York	0.10
	1004	Motika	london	0.11
	1007	Rafkin	Barcelona	0.15
*	NULL	NULL	NULL	NULL

d) All customers excluding those with rating <= 100 unless they are located in Rome

select * from customer where rating >100 or city='roe';

	CNM	CNAME	CITY	RATING	SNo
▶	202	Giovanne	Roe	200	1003
	203	Liu	San jose	300	1002
	206	Clemens	London	300	1007
	207	Pereira	Roe	100	1004
*	NULL	NULL	NULL	NULL	NULL