

## task-1

query:

create table student(

roll\_no int AUTO\_INCREMENT,

name varchar(20),

branch varchar(40),

PRIMARY KEY(roll\_no));

-----

INSERT into student(name,branch) values

("jay","computer"),("Suhani","Electronics"),("kunal","IT");

roll_no	name	branch
1	jay	computer
2	Suhani	Electronics
3	kunal	IT

---

exam table:

```
create table exam(  
roll_no int,  
FOREIGN KEY(roll_no) REFERENCES  
student(roll_no),  
s_code varchar(10),  
marks int(10),  
p_code varchar(2));
```

-----

```
INSERT into exam  
(roll_no,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,"E  
C"),(3,"EC102",50,"EC");
```

roll_no	s_code	marks	p_code
1	CS11	50	CS
1	CS12	60	CS
2	EC101	66	EC
2	EC102	70	EC
3	EC101	45	EC
3	EC102	50	EC

---

## task-2

```
create table demo(  
  firstname varchar(20),  
  lastname varchar(20),  
  Address varchar(50),  
  city varchar(20),  
  age int(3));
```

---

```
insert into demo  
(firstname,lastname,Address,city,age) VALUES  
("Mickey","Mouse","123,Fantasy
```

Way","Anaheim",73),("Bat","Man","321,Cavem Ave","Gotham",54),("Wonder","Woman","987, Thruth

Way","Paradise",39),("Donald","Duck","123,Quack

street","Mallard",65),("Bugs","Bunny","567,carrot street","rascal",61);

firstname	lastname	Address	city	age
Mickey	Mouse	123,Fantasy Way	Anaheim	73
Bat	Man	321,Cavem Ave	Gotham	54
Wonder	Woman	987,Thruth Way	Paradise	39
Donald	Duck	123,Quack street	Mallard	65
Bugs	Bunny	567,carrot street	rascal	61

---

task-3

```
create table employee(  
  e_id int AUTO_INCREMENT,  
  firstname varchar(20),  
  lastname varchar(20),  
  salary int(20),  
  joining_date date,
```

```
department varchar(20),  
PRIMARY KEY(e_id));
```

-----

```
insert into employee  
(firstname,lastname,salary,joining_date,depart  
ment) VALUES  
("john","abraham",10000,'2022-01-10',"Bankin  
g"),("Michael","clarke",80000,'2022-05-10',"Ins  
urance"),("Roy","Thomas",70000,'2022-08-20',"  
Banking"),("tom","Jose",600000,'2011-01-10',"I  
nsurnce"),("jerry","pinto",650000,'2022-01-30',  
"Insurance"),("phillip","Mathew",75000,'2012-1  
1-18',"services"),("Testname1","123",650000,'2  
024-01-10',"services");
```

e_id	firstname	lastname	salary	joining_date	department
1	john	abraham	10000	2022-01-10	Banking
2	Michael	clarke	80000	2022-05-10	Insurance
3	Roy	Thomas	70000	2022-08-20	Banking
4	tom	Jose	600000	2011-01-10	Insurnce
5	jerry	pinto	650000	2022-01-30	Insurance
6	phillip	Mathew	75000	2012-11-18	services
7	Testname1	123	650000	2024-01-10	services

---

```
create table incentive(  
  e_ref_id int,  
  incentive_date date,  
  incentive_amount int(10));
```

-----

```
insert into incentive  
(e_ref_id,incentive_date,incentive_amount)  
values  
(1,'2022-02-23',5000),(2,'2022-02-23',3000),(3,'  
2022-02-23',4000),(1,'2022-01-23',4500),(2,'202  
2-01-23',3500);
```

e_ref_id	incentive_date	incentive_amount
1	2022-02-23	5000
2	2022-02-23	3000
3	2022-02-23	4000
1	2022-01-23	4500
2	2022-01-23	3500

---

queries:

1)select firstname from employee;

firstname
john
Michael
Roy
tom
jerry
phillip

2)select firstname,joining\_date,salary from employee;

firstname	joining_date	salary
john	2022-01-10	10000
Michael	2022-05-10	80000
Roy	2022-08-20	70000
tom	2011-01-10	600000
jerry	2022-01-30	650000
phillip	2012-11-18	75000
Testname1	2024-01-10	650000

3)select \*from employee order by firstname ASC,salary DESC;

e_id	firstname	lastname	salary	joining_date	department
5	jerry	pinto	650000	2022-01-30	Insurance
1	john	abraham	10000	2022-01-10	Banking
2	Michael	clarke	80000	2022-05-10	Insurance
6	phillip	Mathew	75000	2012-11-18	services
3	Roy	Thomas	70000	2022-08-20	Banking
7	Testname1	123	650000	2024-01-10	services
4	tom	Jose	600000	2011-01-10	Insurnce

4)SELECT \*FROM employee WHERE firstname LIKE '%J%';

e_id	firstname	lastname	salary	joining_date	department
1	john	abraham	10000	2022-01-10	Banking
5	jerry	pinto	650000	2022-01-30	Insurance

5)select department,MAX(salary) from employee GROUP BY department ORDER BY salary ASC;

department	MAX(salary)
Banking	70000
services	650000
Insurance	650000
Insurnce	600000

6)SELECT  
employee.firstname,incentive.incentive\_amount  
t from employee JOIN incentive ON



employee.e\_id=incentive.e\_ref\_id where  
incentive.incentive\_amount>3000;

firstname	incentive_amount
john	5000
Roy	4000
john	4500
Michael	3500

7)

---

task-4

create table salseperson(

Sno int,

Sname varchar(20),

city varchar(20),

COMM varchar(10));

\*\*\*\*\*

insert into salseperson (Sno,Sname,city,COMM)  
values

(1001,"peel","london",0.12),(1002,"seres","sen

jones",0.13),(1004,"Motika","london",0.11),(1007,"ramesh","barcelona",0.15),(1001,"Axelrod","New york",0.1);

Sno	Sname	city	COMM
1001	peel	london	.12
1002	seres	sen jones	.13
1004	Motika	london	.11
1007	ramesh	barcelona	.15
1001	Axelrod	New york	.1

-----

CREATE table customer(

Cnm int,

Cname varchar(20),

city varchar(10),

Rating int(4),

Sno int);

\*\*\*\*\*

insert into customer

(Cnm,Cname,city,Rating,Sno) values

(201,"Hoffman","London",100,1001),(202,"Give  
na","roe",200,1003),(203,"liu","san

jones",300,1002),(204,"grass","Barcelona",100,1002),(206,"clemens","London",300,1007),(207,"parera","roe",100,1004);

Cnm	Cname	city	Rating	Sno
201	Hoffman	London	100	1001
202	Givena	roe	200	1003
203	liu	san jones	300	1002
204	grass	Barcelona	100	1002
206	clemens	London	300	1007
207	parera	roe	100	1004

\*\*\*\*\*

queries:

A)select Sname from salseperson where city="london" AND COMM>0.12;

Sname

B)select \*from salseperson where city="london" OR city="barcelona";

Sno	Sname	city	COMM
1001	peel	london	0.12
1004	Motika	london	0.11
1007	ramesh	barcelona	0.15

C)SELECT \*from salseperson where COMM  
BETWEEN 0.10 AND 0.12;

Sno	Sname	city	COMM
1001	peel	london	0.12
1004	Motika	london	0.11
1001	Axelrod	New york	0.1

D)select \*from customer where Rating>100 OR  
city="roe";

Cnm	Cname	city	Rating	Sno
202	Givena	roe	200	1003
203	liu	san jones	300	1002
206	clemens	London	300	1007
207	parera	roe	100	1004

