Task

1.create table name : student and exam
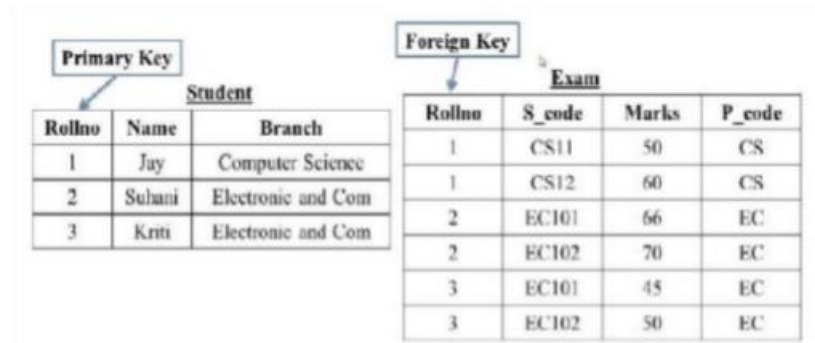
Student:


```
mysql> select * from studentexam;
+--------+--------+--------------------+
| Rollno | Name   | Branch             |
+--------+--------+--------------------+
|      1 | jay    | Computer science   |
|      2 | suhani | electronic and com |
|      3 | kriti  | electronic and com |
+--------+--------+--------------------+
3 rows in set (0.00 sec)
```

Exam:

```
mysql> create table exam(Rollno int,S_code varchar(20),marks int,P_code varchar(10),
FOREIGN KEY (Rollno) REFERENCES student(Rollno) ON DELETE CASCADE ON UPDATE CASCADE);
Query OK, 0 rows affected (0.04 sec)

mysql> insert into exam values(1,'CS11',50,'CS');
Query OK, 1 row affected (0.01 sec)

mysql> insert into exam values(1,'CS12',60,'CS');
Query OK, 1 row affected (0.00 sec)

mysql> insert into exam values(2,'EC101',66,'EC');
Query OK, 1 row affected (0.00 sec)

mysql> insert into exam values(2,'EC102',70,'EC');
Query OK, 1 row affected (0.00 sec)

mysql> insert into exam values(3,'EC101',45,'EC');
Query OK, 1 row affected (0.01 sec)

mysql> insert into exam values(3,'EC102',50,'EC');
Query OK, 1 row affected (0.00 sec)

mysql> SELECT * FROM exam;
+--------+--------+-------+--------+
| Rollno | 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     |
+--------+--------+-------+--------+
6 rows in set (0.01 sec)
```

2.create table given below:

First Name	Last Name	Address	City	Age
Mickey	Mouse	123 Fantasy Way	Anaheim	73
Bat	Man	321 Cavern Ave	Gotham	54
Wonder	Woman	987 Truth 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	Woman	234 Purrfect Street	Hairball	32
Tweety	Bird	543	Itotltaw	28

```
mysql> create table form(First_name varchar(20),Last_name varchar(20),Address varchar(20),
City varchar(20),Age int);
Query OK, 0 rows affected (0.03 sec)

mysql> insert into form values('mickey','mouse','123Fantasy way','Anaheim',73);
Query OK, 1 row affected (0.01 sec)

mysql> insert into form values('Bat','man','321 cavern ave','Gotham',54);
Query OK, 1 row affected (0.00 sec)

mysql> insert into form values('wonder','Woman','987 truth way','paradise',39);
Query OK, 1 row affected (0.01 sec)

mysql> insert into form values('donald','Duck','555 Quack street','Mallard',65);
Query OK, 1 row affected (0.00 sec)

mysql> insert into form values('Bugs','Bunny','567 Carrot street','Rascal',58);
Query OK, 1 row affected (0.00 sec)

mysql> insert into form values('Wiley','Coyote','999 Acme Way','Canyon',61);
Query OK, 1 row affected (0.00 sec)

mysql> insert into form values('Cat','Woman','234 Purrfect Street','Hairball',32);
Query OK, 1 row affected (0.00 sec)

mysql> insert into form values('Tweety','Bird','534 Parrot street','Itotitaw',28);
Query OK, 1 row affected (0.00 sec)

mysql> select * from form;
+------------+-----------+---------------------+----------+------+
| First_name | Last_name | Address             | City     | Age  |
+------------+-----------+---------------------+----------+------+
| mickey     | mouse     | 123Fantasy way      | Anaheim  |   73 |
| Bat        | man       | 321 cavern ave      | Gotham   |   54 |
| wonder     | Woman     | 987 truth 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        | Woman     | 234 Purrfect Street | Hairball |   32 |
| Tweety     | Bird      | 534 Parrot street   | Itotitaw |   28 |
+------------+-----------+---------------------+----------+------+
8 rows in set (0.00 sec)
```

3.create table given below: Employee and Incentive

3.1:-Table name: Employee

Employee_id	First_name	Last_name	Salary	Joining_date	Department
1	John	Abraham	1000000	01-JAN-13 12.00.00 AM	Banking
2	Michael	Clarke	800000	01-JAN-13 12.00.00 AM	Insurance
3	Roy	Thomas	700000	01-FEB-13 12.00.00 AM	Banking
4	Tom	Jose	600000	01-FEB-13 12.00.00 AM	Insurance
5	Jerry	Pinto	650000	01-FEB-13 12.00.00 AM	Insurance
6	Philip	Mathew	750000	01-JAN-13 12.00.00 AM	Services
7	TestName1	123	650000	01-JAN-13 12.00.00 AM	Services
8	TestName2	Lname%	600000	01-FEB-13 12.00.00 AM	Insurance

3.2:-Table name: Incentive

Employee_ref_id	Incentive_date	Incentive_amount
1	01-FEB-13	5000
2	01-FEB-13	3000
3	01-FEB-13	4000
1	01-JAN-13	4500
2	01-JAN-13	3500

3.1:-

```
mysql> select * from E_table;
+-------------+--------------+-----------+---------+----------------------+-----------+
| employee_id | First_name   | Last_name | Salary  | Joining_date         | Department |
+-------------+--------------+-----------+---------+----------------------+-----------+
|           1 | kasamali     | mukhi     | 1000000 | 01-jan-13 12.00.00AM | Banking    |
|           2 | kurbanhusain | vaghmar   | 8000000 | 01-jan-13 12.00.00AM | insurance  |
|           3 | abbasali     | sherasiya | 7000000 | 01-feb-13 12.00.00AM | banking    |
|           4 | jafarali     | sherasiya | 6000000 | 01-feb-13 12.00.00AM | insurance  |
|           5 | sabirali     | madhiya   | 6500000 | 01-feb-13 12.00.00AM | insurance  |
+-------------+--------------+-----------+---------+----------------------+-----------+
5 rows in set (0.00 sec)
```

3.2:-

```
mysql> select * from incentive;
+-----------------+-----------------+-----------------+
| Employee_ref_id | Incentive_date  | Incentive_amount |
+-----------------+-----------------+-----------------+
|               1 | 01-FEB-13       |            5000 |
|               2 | 01-FEB-13       |            3000 |
|               3 | 01-FEB-13       |            4000 |
|               1 | 01-JAN-13       |            4500 |
|               2 | 01-JAN-13       |            3500 |
+-----------------+-----------------+-----------------+
5 rows in set (0.00 sec)
```

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

```
mysql> select * from E_table where First_name='jafarali';
+-------------+------------+-----------+---------+---------------------+-----------+
| employee_id | First_name | Last_name | Salary  | Joining_date        | Department |
+-------------+------------+-----------+---------+---------------------+-----------+
|           4 | jafarali   | sherasiya | 6000000 | 01-feb-13 12.00.00AM | insurance |
+-------------+------------+-----------+---------+---------------------+-----------+
1 row in set (0.00 sec)
```

b) Get FIRST_NAME, Joining Date, and Salary from employee table.

```
mysql> select First_name,Joining_date,Salary from E_table;
+-------------+---------------------+---------+
| First_name  | Joining_date        | Salary  |
+-------------+---------------------+---------+
| kasamali    | 01-jan-13 12.00.00AM | 1000000 |
| kurbanhusain | 01-jan-13 12.00.00AM | 8000000 |
| abbasali    | 01-feb-13 12.00.00AM | 7000000 |
| jafarali    | 01-feb-13 12.00.00AM | 6000000 |
| sabirali    | 01-feb-13 12.00.00AM | 6500000 |
+-------------+---------------------+---------+
5 rows in set (0.00 sec)
```

c) Get all employee details from the employee table order by
First_Name Ascending and Salary descending?

```
mysql> select * from E_table order by First_name ASC,Salary DESC;
+-------------+-------------+-----------+---------+----------------------+------------+
| employee_id | First_name  | Last_name | Salary  | Joining_date         | Department |
+-------------+-------------+-----------+---------+----------------------+------------+
|           3 | abbasali    | sherasiya | 7000000 | 01-feb-13 12.00.00AM | banking    |
|           4 | jafarali    | sherasiya | 6000000 | 01-feb-13 12.00.00AM | insurance  |
|           1 | kasamali    | mukhi     | 1000000 | 01-jan-13 12.00.00AM | Banking    |
|           2 | kurbanhusain| vaghmar   | 8000000 | 01-jan-13 12.00.00AM | insurance  |
|           5 | sabirali    | madhiya   | 6500000 | 01-feb-13 12.00.00AM | insurance  |
+-------------+-------------+-----------+---------+----------------------+------------+
5 rows in set (0.00 sec)

mysql> select * from E_table order by Salary DESC;
+-------------+-------------+-----------+---------+----------------------+------------+
| employee_id | First_name  | Last_name | Salary  | Joining_date         | Department |
+-------------+-------------+-----------+---------+----------------------+------------+
|           2 | kurbanhusain| vaghmar   | 8000000 | 01-jan-13 12.00.00AM | insurance  |
|           3 | abbasali    | sherasiya | 7000000 | 01-feb-13 12.00.00AM | banking    |
|           5 | sabirali    | madhiya   | 6500000 | 01-feb-13 12.00.00AM | insurance  |
|           4 | jafarali    | sherasiya | 6000000 | 01-feb-13 12.00.00AM | insurance  |
|           1 | kasamali    | mukhi     | 1000000 | 01-jan-13 12.00.00AM | Banking    |
+-------------+-------------+-----------+---------+----------------------+------------+
5 rows in set (0.00 sec)
```

d) Get employee details from employee table whose first name
contains 'J'.

```
mysql> SELECT * FROM E_table WHERE First_name LIKE 'j%';
+-------------+------------+-----------+---------+----------------------+------------+
| employee_id | First_name | Last_name | Salary  | Joining_date         | Department |
+-------------+------------+-----------+---------+----------------------+------------+
|           4 | jafarali   | sherasiya | 6000000 | 01-feb-13 12.00.00AM | insurance  |
+-------------+------------+-----------+---------+----------------------+------------+
1 row in set (0.00 sec)
```

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

```
mysql> select * from E_table order by Salary ASC;
+-------------+-------------+-----------+---------+----------------------+------------+
| employee_id | First_name  | Last_name | Salary  | Joining_date         | Department |
+-------------+-------------+-----------+---------+----------------------+------------+
|           1 | kasamali    | mukhi     | 1000000 | 01-jan-13 12.00.00AM | Banking    |
|           4 | jafarali    | sherasiya | 6000000 | 01-feb-13 12.00.00AM | insurance  |
|           5 | sabirali    | madhiya   | 6500000 | 01-feb-13 12.00.00AM | insurance  |
|           3 | abbasali    | sherasiya | 7000000 | 01-feb-13 12.00.00AM | banking    |
|           2 | kurbanhusain| vaghmar   | 8000000 | 01-jan-13 12.00.00AM | insurance  |
+-------------+-------------+-----------+---------+----------------------+------------+
5 rows in set (0.00 sec)
```

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

```
mysql> select E_table.First_name,incentive.Incentive_amount from E_table INNER JOIN incentive
ON E_table.employee_id=incentive.Employee_ref_id where incentive.Incentive_amount>3000;
+--------------+------------------+
| First_name   | Incentive_amount |
+--------------+------------------+
| kasamali     |             4500 |
| kasamali     |             5000 |
| kurbanhusain |             3500 |
| abbasali     |             4000 |
+--------------+------------------+
4 rows in set (0.00 sec)
```

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

```
mysql> create trigger TR
    -> after insert ON E_table
    -> for each row
    -> insert into VIEW values
(new.employee_id,new.First_name,new.Last_name,new.Salary,new.Joining_date,new.Department);
Query OK, 0 rows affected (0.02 sec)
```

4. Create table given below: Salesperson and Customer

TABLE-1

TABLE NAME- SALSEPERSON

(PK)SNo	SNAME	CITY	COMM
1001	Peel	London	.12
1002	Serres	San Jose	.13
1004	Motika	London	.11
1007	Rafkin	Barcelona	.15
1003	Axelrod	New York	.1

TABLE-2

TABLE NAME- CUSTOMER

(PK)CNM.	CNAME	CITY	RATING	(FK)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

Table-1

```
mysql> select * from salseperson;
+-------+---------+-----------+------+
| PKSno | SNAME   | CITY      | COMM |
+-------+---------+-----------+------+
|  1001 | Peel    | London    | 0.13 |
|  1002 | Serres  | San jose  | 0.12 |
|  1004 | Motika  | London    | 0.11 |
|  1007 | Rafkin  | Barcelona | 0.15 |
|  1003 | Axelrod | New York  | 0.10 |
+-------+---------+-----------+------+
5 rows in set (0.00 sec)
```

Table-2

```
mysql> select * from customer;
+-------+----------+-----------+--------+-------+
| PKCNM | CNAME    | CITY      | RATING | FKSNo |
+-------+----------+-----------+--------+-------+
|   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 |
+-------+----------+-----------+--------+-------+
6 rows in set (0.00 sec)
```

Retrieve the below data from above table

a) All orders for more than $1000.

```
mysql> select * from customer where FKSNo > 1000 order by FKSNo;
+-------+----------+-----------+--------+--------+
| PKCNM | CNAME    | CITY      | RATING | FKSNo  |
+-------+----------+-----------+--------+--------+
|   201 | Hoffman  | London    |    100 |   1001 |
|   203 | Liu      | San Jose  |    300 |   1002 |
|   204 | Grass    | Barcelona |    100 |   1002 |
|   202 | Giovanne | Roe       |    200 |   1003 |
|   207 | Pereira  | Roe       |    100 |   1004 |
|   206 | Clemens  | London    |    300 |   1007 |
+-------+----------+-----------+--------+--------+
6 rows in set (0.00 sec)
```

b) Names and cities of all salespeople in London with commission above 0.12

```
mysql> select SNAME,CITY from salseperson where CITY='London' and COMM >= 0.12;
+-------+--------+
| SNAME | CITY   |
+-------+--------+
| Peel  | London |
+-------+--------+
1 row in set (0.00 sec)
```

c) All salespeople either in Barcelona or in London

```
mysql> select * from salseperson where CITY in('Barcelona','London');
+--------+---------+-----------+-------+
| PKSno  | SNAME   | CITY      | COMM  |
+--------+---------+-----------+-------+
|   1001 | Peel    | London    | 0.13  |
|   1004 | Motika  | London    | 0.11  |
|   1007 | Rafkin  | Barcelona | 0.15  |
+--------+---------+-----------+-------+
3 rows in set (0.00 sec)
```

d) All salespeople with commission between 0.10 and 0.12. (Boundary values should be excluded).

```
mysql> select * from salseperson where COMM between .10 and .12;
+--------+---------+-----------+-------+
| PKSno  | SNAME   | CITY      | COMM  |
+--------+---------+-----------+-------+
|   1002 | Serres  | San jose  | 0.12  |
|   1004 | Motika  | London    | 0.11  |
|   1003 | Axelrod | New York  | 0.10  |
+--------+---------+-----------+-------+
3 rows in set (0.00 sec)
```

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

```
mysql> select * from customer where rating <= 100 or CITY='Rome';
+-------+---------+-----------+--------+-------+
| PKCNM | CNAME   | CITY      | RATING | FKSNo |
+-------+---------+-----------+--------+-------+
|   201 | Hoffman | London    |    100 |  1001 |
|   204 | Grass   | Barcelona |    100 |  1002 |
|   207 | Pereira | Roe       |    100 |  1004 |
+-------+---------+-----------+--------+-------+
3 rows in set (0.00 sec)
```