1. Create Table Name : Student and Exam

A.

1. CREATE TABLE :-

[CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) Student

 (

 Rollno int(20) PRIMARY KEY AUTO\_INCREMENT,

 Name varchar(200),

 Branch varchar(200)

 );

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO student(Name, Branch) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values)

 ("jay","computer science");

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO student(Name, Branch) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values)

 ("Suhani","Electronic and com");

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO student(Name, Branch) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values)

("kriti","Electronic and com");

2. CREATE TABLE :- EXAM

[CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) Exam

(

Rollno int(20),

S\_code varchar(200),

Marks int(20),

P\_code varchar(20),

Rollno\_fk int(20),

FOREIGN KEY(Rollno\_fk) REFERENCES student (Rollno)

);

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO exam (S\_code, Marks, P\_code, Rollno\_fk) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) (“CS11”, 50, “CS”, 1);

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO exam (S\_code, Marks, P\_code, Rollno\_fk) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) ("CS12", 60, "CS", 1);

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO exam (S\_code, Marks, P\_code, Rollno\_fk) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) ("EC101", 66, "EC", 2);

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO exam (S\_code, Marks, P\_code, Rollno\_fk) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) ("EC102", 70, "EC", 2);

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO exam (S\_code, Marks, P\_code, Rollno\_fk) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) ("EC101", 45, "EC", 3);

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO exam (S\_code, Marks, P\_code, Rollno\_fk) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) ("EC102", 50, "EC", 3);

2. Create table given below

Ans –

CREATE TABLE :- CLIENT

[CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) client

(

FNAME VARCHAR(50),

LNAME VARCHAR(50),

AGE INT(50),

ADDRESS VARCHAR(200),

CITY VARCHAR (50)

);

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO client(FNAME,LNAME,AGE,ADDRESS,CITY)[VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values)

("MICKEY","MOUSE",73,"123 FANTASY WAY","ANAHEIM");

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO client(FNAME,LNAME,AGE,ADDRESS,CITY)[VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values)

("BAT","MAN",54,"321 CAVERN AVE","GOTHAM");

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO client(FNAME,LNAME,AGE,ADDRESS,CITY)[VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values)

("WONDER","WOMAN",39,"987 TRUTHWAY","PARADISE");

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO client(FNAME,LNAME,AGE,ADDRESS,CITY)[VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values)

("DONALD","DUCK",65,"555 QUACK STREET","MALLARD")

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO client(FNAME,LNAME,AGE,ADDRESS,CITY)[VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values)

("BUGS","BUNNY",58,"567 CARROT STREET","RASCAL");

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO client(FNAME,LNAME,AGE,ADDRESS,CITY)[VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values)

("WILEY","COYOTE",61,"999 ACME WAY","CANYON");

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO client(FNAME,LNAME,AGE,ADDRESS,CITY)[VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values)

("CAT","WOMAN",22,"234 PURRFECT STREET","HAIRBALL");

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO client(FNAME,LNAME,AGE,ADDRESS,CITY)[VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values)

("TWEETY","BIRD",28,"543 HACKERS WAY","ITOTLAW");

3. CREATE EMPLOYEE TABLE

[CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) EMPLOYEE

(

 Employee\_ID INT PRIMARY KEY,

 FIRST\_NAME VARCHAR(25),

 LAST\_NAME VARCHAR(25),

 SALARY VARCHAR(25),

 JOINING\_DATE VARCHAR(25),

DEPARTMENT VARCHAR(25),

 );

INSERT RECORDS IN EMPLOYEE TABLE

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO employee (EMPLOYEE\_ID,FIRST\_NAME,LAST\_NAME,SALARY,JOINING\_DATE,DEPARTMENT) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) (1, "John", "Abraham", 1000000, "01-Jan-13 12.00.00AM", "Banking");

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO employee (EMPLOYEE\_ID,FIRST\_NAME,LAST\_NAME,SALARY,JOINING\_DATE,DEPARTMENT) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) (2, "Michael", "Clarke", 800000, "01-Jan-13 12.00.00AM"," Insurance");

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO employee (EMPLOYEE\_ID,FIRST\_NAME,LAST\_NAME,SALARY,JOINING\_DATE,DEPARTMENT) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) (3, "Roy", "Thomas", 700000, "01-Jan-13 12.00.00AM"," Banking");

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO employee (EMPLOYEE\_ID,FIRST\_NAME,LAST\_NAME,SALARY,JOINING\_DATE,DEPARTMENT) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) (4, "Tom", "Jose", 600000, "01-Feb-13 12.00.00AM"," Insurance");

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO employee (EMPLOYEE\_ID,FIRST\_NAME,LAST\_NAME,SALARY,JOINING\_DATE,DEPARTMENT) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) (5, "Jerry", "Pinto", 650000, "01-Feb-13 12.00.00AM"," Insurance");

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO employee (EMPLOYEE\_ID,FIRST\_NAME,LAST\_NAME,SALARY,JOINING\_DATE,DEPARTMENT) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) (6, "Philip", "Mathew", 750000, "01-Feb-13 12.00.00AM"," Sevices");

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO employee (EMPLOYEE\_ID,FIRST\_NAME,LAST\_NAME,SALARY,JOINING\_DATE,DEPARTMENT) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) (7, "Test1", "Name", 650000, "01-Jan-13 12.00.00AM"," Sevices");

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO employee (EMPLOYEE\_ID,FIRST\_NAME,LAST\_NAME,SALARY,JOINING\_DATE,DEPARTMENT) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) (8, "Test2", "Lname", 600000, "01-Feb-13 12.00.00AM"," Insurance");

1. Get First\_Name from employee table using Tom name “Employee Name”.

Ans –

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* FROM employee WHERE First\_name = "Tom";

b) Get FIRST\_NAME, Joining Date, and Salary from employee table.

Ans –

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) First\_name, Joining\_date,Salary FROM employee;

c) Get all employee details from the employee table order by First\_Name Ascending

and Salary descending?

Ans –

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* FROM employee ORDER BY First\_name ASC,Salary DESC;

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

Ans –

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* FROM employee WHERE First\_name [LIKE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-comparison-functions.html%23operator_like) "%j%";

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

Ans –

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) Department,[MAX](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/aggregate-functions.html%23function_max)(Salary) MAXIMUM\_SALARY FROM employee GROUP BY[Open new phpMyAdmin window](http://localhost/phpmyadmin/index.php?route=%2Ftable%2Ftriggers&db=assignments&table=employee&server=1) Department ORDER BY MAXIMUM\_SALARY ASC;

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

Ans –

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) First\_name,incentive\_amount FROM employee A JOIN incentive B ON A.Employee\_id = B.employee\_ref\_id\_fk [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_and)

incentive\_amount >3000;

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

Ans –

4. Create table given below: Salesperson and Customer

Ans –

[CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) SALESPERSON

(

SNO INT PRIMARY KEY,

SNAME VARCHAR(25),

CITY VARCHAR(25),

COMM VARCHAR(25)

);

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO salesperson [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) (1001,"PEEL","LONDON",".12");

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO salesperson [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) (1002,"SERRES","SAN JOSE",".13");

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO salesperson [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) (1004,"MOTIKA","LONDON",".11");

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO salesperson [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) (1007,"RAFKIN","BARCELONA",".15");

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO salesperson [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) (1003,"AXELROD","NEWYORK",".1");

[CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) CUSTOMER

( CNM INT PRIMARY KEY,

CNAME VARCHAR(25),

CITY VARCHAR(25),

RATING INT(25),

SNO\_FK INT(25),

FOREIGN KEY (SNO\_FK)REFERENCES salesperson(SNO) );

[CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) ORDERS

(

ONUM INT(25) PRIMARY KEY,

AMOUNT INT(100) ,

ODATE VARCHAR(100),

CNM\_FK INT(25),

SNO\_FK INT(25),

FOREIGN KEY(CNM\_FK) REFERENCES customer(CNM),

FOREIGN KEY(SNO\_FK) REFERENCES salesperson(SNO)

);

a) All orders for more than $1000.

Ans –

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) ONUM,AMOUNT FROM orders WHERE AMOUNT>1000;

1. Names and cities of all salespeople in London with commission above 0.12

Ans –

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) SNO,CITY FROM salesperson WHERE COMM>0.12 [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_and) CITY = "LONDON";

c) All salespeople either in Barcelona or in London

Ans –

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) SNO,CITY FROM salesperson WHERE

 CITY [IN](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/comparison-operators.html%23function_in)("BARCELONA" , "LONDON");

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

Ans –

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) SNO,COMM FROM salesperson WHERE COMM

BETWEEN 0.10 [and](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_and) 0.12;

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

Ans –

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) CNM FROM customer WHERE RATING <= 100 [OR](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_or) CITY = "ROME";