1. Create Table Name : Student and Exam

A.

1. CREATE TABLE :-

```
CREATE TABLE Student
 (
      Rollno int(20) PRIMARY KEY AUTO_INCREMENT,
      Name varchar(200),
      Branch varchar(200)
 );
      INSERT INTO student(Name, Branch) VALUES

      ("jay","computer science");

      INSERT INTO student(Name, Branch) VALUES

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

      INSERT INTO student(Name, Branch) VALUES

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

2. CREATE TABLE :- EXAM

```
      CREATE TABLE 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 INTO exam (S_code, Marks, P_code, Rollno_fk) VALUES ("CS1
      1", 50, "CS", 1);
      INSERT INTO exam (S_code, Marks, P_code, Rollno_fk) VALUES ("CS1
      2", 60, "CS", 1);
      INSERT INTO exam (S_code, Marks, P_code, Rollno_fk) VALUES ("EC1
      01", 66, "EC", 2);
      INSERT INTO exam (S_code, Marks, P_code, Rollno_fk) VALUES ("EC1
      02", 70, "EC", 2);
      INSERT INTO exam (S_code, Marks, P_code, Rollno_fk) VALUES ("EC1
      01", 45, "EC", 3);
      INSERT INTO exam (S_code, Marks, P_code, Rollno_fk) VALUES ("EC1
      02", 50, "EC", 3);
```

2. CREATE TABLE GIVEN BELOW

Ans –

CREATE TABLE :- CLIENT

```
CREATE TABLE client
(
      FNAME VARCHAR(50),
      LNAME VARCHAR(50),
      AGE INT(50),
      ADDRESS VARCHAR(200),
      CITY VARCHAR (50)
);
INSERT INTO client(FNAME,LNAME,AGE,ADDRESS,CITY)VALUES
("MICKEY","MOUSE",73,"123 FANTASY WAY","ANAHEIM");

INSERT INTO client(FNAME,LNAME,AGE,ADDRESS,CITY)VALUES
("BAT","MAN",54,"321 CAVERN AVE","GOTHAM");

INSERT INTO client(FNAME,LNAME,AGE,ADDRESS,CITY)VALUES
("WONDER","WOMAN",39,"987 TRUTHWAY","PARADISE");

INSERT INTO client(FNAME,LNAME,AGE,ADDRESS,CITY)VALUES
("DONALD","DUCK",65,"555 QUACK STREET","MALLARD")

INSERT INTO client(FNAME,LNAME,AGE,ADDRESS,CITY)VALUES
("BUGS","BUNNY",58,"567 CARROT STREET","RASCAL");

INSERT INTO client(FNAME,LNAME,AGE,ADDRESS,CITY)VALUES
("WILEY","COYOTE",61,"999 ACME WAY","CANYON");

INSERT INTO client(FNAME,LNAME,AGE,ADDRESS,CITY)VALUES
("CAT","WOMAN",22,"234 PURRFECT STREET","HAIRBALL");

INSERT INTO client(FNAME,LNAME,AGE,ADDRESS,CITY)VALUES
("TWEETY","BIRD",28,"543 HACKERS WAY","ITOTLAW");
```

3. **CREATE EMPLOYEE TABLE**

```
CREATE TABLE 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 INTO employee (EMPLOYEE_ID,FIRST_NAME,LAST_NAME,SALARY,JOINING_D
ATE,DEPARTMENT) VALUES (1, "John", "Abraham", 1000000, "01-Jan-13
12.00.00AM", "Banking");

INSERT INTO employee (EMPLOYEE_ID,FIRST_NAME,LAST_NAME,SALARY,JOINING_D
ATE,DEPARTMENT) VALUES (2, "Michael", "Clarke", 800000, "01-Jan-13
12.00.00AM"," Insurance");

INSERT INTO employee (EMPLOYEE_ID,FIRST_NAME,LAST_NAME,SALARY,JOINING_D
ATE,DEPARTMENT) VALUES (3, "Roy", "Thomas", 700000, "01-Jan-13
12.00.00AM"," Banking");

INSERT INTO employee (EMPLOYEE_ID,FIRST_NAME,LAST_NAME,SALARY,JOINING_D
ATE,DEPARTMENT) VALUES (4, "Tom", "Jose", 600000, "01-Feb-13
12.00.00AM"," Insurance");

INSERT INTO employee (EMPLOYEE_ID,FIRST_NAME,LAST_NAME,SALARY,JOINING_D
ATE,DEPARTMENT) VALUES (5, "Jerry", "Pinto", 650000, "01-Feb-13
12.00.00AM"," Insurance");

INSERT INTO employee (EMPLOYEE_ID,FIRST_NAME,LAST_NAME,SALARY,JOINING_D
ATE,DEPARTMENT) VALUES (6, "Philip", "Mathew", 750000, "01-Feb-13
12.00.00AM"," Sevices");

INSERT INTO employee (EMPLOYEE_ID,FIRST_NAME,LAST_NAME,SALARY,JOINING_D
ATE,DEPARTMENT) VALUES (7, "Test1", "Name", 650000, "01-Jan-13
12.00.00AM"," Sevices");

INSERT INTO employee (EMPLOYEE_ID,FIRST_NAME,LAST_NAME,SALARY,JOINING_D
ATE,DEPARTMENT) VALUES (8, "Test2", "Lname", 600000, "01-Feb-13
12.00.00AM"," Insurance");
```

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

```
SELECT * FROM employee WHERE First_name = "Tom";
```

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

```
SELECT 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 * FROM employee ORDER BY First_name ASC,Salary DESC;
```

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

```
SELECT * FROM employee WHERE First_name LIKE "%j%";
```

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

```
SELECT Department,MAX(Salary) MAXIMUM_SALARY FROM employee GROUP
 BY 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 First_name,incentive_amount FROM employee A JOIN incentiv
e B ON A.Employee_id = B.employee_ref_id_fk 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 TABLE SALESPERSON
(
     SNO INT PRIMARY KEY,
     SNAME VARCHAR(25),
     CITY VARCHAR(25),
     COMM VARCHAR(25)
);
INSERT INTO salesperson VALUES (1001,"PEEL","LONDON",".12");

INSERT INTO salesperson VALUES (1002,"SERRES","SAN JOSE",".13");

INSERT INTO salesperson VALUES (1004,"MOTIKA","LONDON",".11");

INSERT INTO salesperson VALUES (1007,"RAFKIN","BARCELONA",".15");

INSERT INTO salesperson VALUES (1003,"AXELROD","NEWYORK",".1");



CREATE TABLE 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 TABLE 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 ONUM,AMOUNT FROM orders WHERE AMOUNT>1000;
```

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

Ans –

```
SELECT SNO,CITY FROM salesperson WHERE COMM>0.12 AND CITY = "LONDON";
```

c) All salespeople either in Barcelona or in London
Ans –

```
SELECT SNO,CITY FROM salesperson WHERE
     CITY IN("BARCELONA" , "LONDON");
```

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

```
SELECT SNO,COMM FROM salesperson WHERE COMM
BETWEEN 0.10 and 0.12;
```

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

```
SELECT CNM FROM customer WHERE RATING <= 100 OR CITY = "ROME";
```