* ***Task 1. Create Table Name : Student and Exam.***
* ***CREATE TABLE student***

(ROLL\_NO ***INT PRIMARY KEY AUTO\_INCREMENT NOT NULL***,

NAME ***VARCHAR(30),***

BRANCH ***VARCHAR (30));***

* ***INSERT INTO student*** (ROLL\_NO, NAME, BRANCH)

***VALUES***

**(1,"JAY","COMPUTER SCIENCE"),**

**(2,"SUHANI","ELECTRONIC AND COM"),**

**(3,"KRITI","ELECTRONIC AND COM");**

* ***CREATE TABLE exam***

(ROLL\_NO **INT** **NOT NULL,**

S\_CODE **VARCHAR (20),**

MARKS **INT,** P\_CODE **VARCHAR (20),**

**FOREIGN KEY** (ROLL\_NO) **REFERENCES**

**Student** (ROLL\_NO));

* ***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, "EC"), (3,"EC102",50,"EC");**

* **Task 2. Create table given below.**
* ***CREATE TABLE HJ1***

(FIRST\_NAME **VARCHAR (30) NOT NULL,**

LAST\_NAME **VARCHAR (20),**

ADDRESS **VARCHAR (30),**

CITY **VARCHAR (20),** AGE **INT);**

* ***INSERT INTO hj1***

(FIRST\_NAME, LAST\_NAME, ADDRESS, CITY, AGE) **VALUES**

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

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

**("WONDER","WOMEN", "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","WOMEN","234 PURRFECT STREET","HAIRBALL",32),**

**("TWEETY","BIRD",543,"ITOTLTAW",28);**

* **TASK 3. Create table given below: Employee and Incentive**

**Table Name: Employee**

* **CREATE TABLE EMPLOYEE (EMPLOYEE\_ID INT PRIMARY KEY AUTO\_INCREMENT NOT NULL,**

**FIRST\_NAME VARCHAR (30),**

**LAST\_NAME VARCHAR (30),**

**SALARY INT,**

**JOINING\_DATE DATETIME,**

**DEPARTMENT VARCHAR (30));**

* **INSERT INTO employee (EMPLOYEE\_ID, FIRST\_NAME, LAST\_NAME,SALARY, JOINING\_DATE,DEPARTMENT) VALUES**

**(1,"JOHN","ABRAHAM",1000000,"2013-01-01","BANKING"),**

**(2,"MICHAEL","CLARKE",800000,"2013-01-01","INSURANCE"),**

**(3,"ROY","THOMAS",700000,"2013-02-01","BANKING"),**

**(4,"TOM","JOSE",600000,"2013-02-01","INSURANCE"),**

**(5,"JERRY","PINTO",650000,"2013-02-01","INSURANCE"),**

**(6,"PHILIP","MATHEW",750000,"2013-01-01","SERVICE"),**

**(7,"TESTNAME1","123",650000,"2013-01-01","SERVICE"),**

**(8,"TESTNAME2","LNAME%",600000,"2013-02-01","INSURANCE");**

* **CREATE TABLE INCENTIVE (EMPLOYEE\_REF\_ID INT, INCENTIVE\_DATE DATE, INCENTIVE\_AMOUNT INT, FOREIGN KEY (EMPLOYEE\_REF\_ID) REFERENCES employee(EMPLOYEE\_ID));**
* **INSERT INTO incentive (EMPLOYEE\_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);**

* **A .Get First\_Name from employee table using Tom name “Employee Name”.**
* **SELECT FIRST\_NAME AS EMPLOYEE\_NAME FROM employee WHERE FIRST\_NAME="TOM";**
* **B) Get FIRST\_NAME, Joining Date, and Salary from employee table.**
* **SELECT FIRST\_NAME, DATE\_FORMAT(JOINING\_DATE, "%d-%m-%y %h-%i-%s %p") AS JOINING\_DATE, SALARY FROM employee;**
* **C) Get all employee details from the employee table order by First\_Name Ascending and Salary descending.**
* **SELECT \* FROM employee ORDER BY FIRST\_NAME ASC, SALARY DESC;**
* **D) Get employee details from employee table whose first name contains ‘J’.**
* **SELECT \* FROM employee WHERE FIRST\_NAME LIKE "%J%";**
* **E) Get department wise maximum salary from employee table order by salary ascending?**
* **SELECT DEPARTMENT, MAX(SALARY) FROM employee**

**GROUP BY DEPARTMENT**

**ORDER BY 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.**
* **SELECT employee.FIRST\_NAME, incentive.INCENTIVE\_AMOUNT FROM employee**

**INNER JOIN incentive ON employee.EMPLOYEE\_ID=incentive.EMPLOYEE\_REF\_ID WHERE incentive.INCENTIVE\_AMOUNT >3000;**

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

**CREATE TABLE TRIGGERID (EMPLOYEESS\_ID INT , FNAME VARCHAR (20), LNAME VARCHAR (20), FETCH\_TIME TIMESTAMP, ACTION VARCHAR (20));**

* **TRIGGER CREATION:**

**CREATE TRIGGER triggerid AFTER INSERT ON employee FOR EACH ROW**

**INSERT INTO triggerid(EMPLOYEESS\_ID,FNAME,LNAME,ACTION) VALUES (NEW.EMPLOYEE\_ID,NEW.FIRST\_NAME,NEW.LAST\_NAME,"DATA INSERT");**

**INSERT INTO employee (EMPLOYEE\_ID,FIRST\_NAME,LAST\_NAME,SALARY,JOINING\_DATE,DEPARTMENT) VALUES**

**(9,"LUCKY","TIWARI",100,"2024-06-10","GIDC"),**

**(10,"JAYESH","PATEL",200,"2024-06-15","GIDC"),**

**(11,"VISHAL","YADAV",100,"2024-06-20","GIDC");**

* **TASK 4. Create table given below: Salesperson and Customer.**

**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);**

**CREATE TABLE CUSTOMER (CNM INT PRIMARY KEY AUTO\_INCREMENT NOT NULL, CNAME VARCHAR (30), CITY VARCHAR (30), 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","ROME",200,1003),**

**(203,"LIU","SAN JOSE",300,1002),**

**(204,"GRASS","BARCELONA",100,1002),**

**(206,"CLEMENS","LONDON",300,1007),**

**(207,"PEREIRA","ROE",100,1004);**

* **Retrieve the below data from above table.**
* **B) Names and cities of all salespeople in London with commission above 0.12.**
* **SELECT SNAME,CITY FROM salesperson WHERE COMM >.12;**
* **C) All salespeople either in Barcelona or in London.**
* **SELECT \* FROM `salesperson` WHERE CITY = "LONDON" OR CITY = "BARCELONA";**
* **D)All salespeople with commission between 0.10 and 0.12. (Boundary values should be excluded).**
* **SELECT \* FROM salesperson WHERE COMM >.10 AND COMM <.12;**
* **E) All customers excluding those with rating <= 100 unless they are located in Rome.**
* **SELECT \* FROM customer WHERE (RATING > 100 OR CITY!="ROME") OR CITY="ROME";**