

Assigment Database:

Table 1: Student and Exam-

-----> table 1 student-

| Roll_no | Name | Branch |
|---------|--------|---------------------|
| 1 | Jay | Computer Science |
| 2 | Suhani | Electronic and com. |
| 3 | Kriti | Electronic and com. |

Table 2 Exam-

| 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 |

Query----->

```
CREATE TABLE student(Rollno int(10)PRIMARY KEY,Name  
varchar(300),Branch varchar(300));
```

Insert Query---->

```
INSERT into student(Rollno,Name,Branch)  
VALUES(1,'Jay','Computer Science');
```

```
INSERT into student(Rollno,Name,Branch)  
VALUES(2,'Suhani','Electronic and Com');
```

```
INSERT into student(Rollno,Name,Branch)
VALUES(3,'Kriti','Electronic and Com');
```

```
CREATE TABLE Exam (Rollno int(10),S_code  
varchar(300),Marks int(10),P_code varchar(200),  
FOREIGN KEY (Rollno) REFERENCES student(Rollno));
```

->Insert Table Exam :

$$\Rightarrow \geq = , = , = , = , = , = , = , =$$

```
INSERT into exam
(Rollno,S  code,Marks,P  code)VALUES(1,'CS11',50,'CS');
```

```
INSERT into exam
(Rollno,S_code,Marks,P_code)VALUES(1,'CS12',60,'CS');
```

```
INSERT into exam
(Rollno,S_code,Marks,P_code)VALUES(2,'EC101',66,'EC');
```

```
INSERT into exam
(Rollno,S code,Marks,P code)VALUES(2,'EC102',70,'EC');
```

```
INSERT into exam
(Rollno,S code,Marks,P code)VALUES(3,'EC101',45,'EC');
```

INSERT into exam
(Rollno,S code,Marks,P code)VALUES(3,'EC102',50,'EC');

Table 2: -

| First_Name | Last_name | Address | City | Age |
|------------|-----------|---------------------|----------|-----|
| 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 | Itotitaw | 28 |

->Create Table :

```
CREATE TABLE information(FirstName  
varchar(200),LastName varchar(300),Address varchar(300),  
City varchar(200),Age int(10));
```

->Insert Table:

```
INSERT into information  
(FirstName,LastName,Address,City,Age)VALUES  
('Mickey','Mouse','123Fantasy Way','Anaheim',73);
```

```
INSERT into information
(FirstName,LastName,Address,City,Age)VALUES
('Bat','Man','321Cavern Ave','Gotham',54);
```

```
INSERT into information
(FirstName,LastName,Address,City,Age)VALUES
'Wonder','Women','987Truth way','Paradise',39;
```

```
INSERT into information
(FirstName,LastName,Address,City,Age)VALUES
'Donald','Duck','555Quack Street','Mallard',65);
```

```
INSERT into information
(FirstName,LastName,Address,City,Age)VALUES
('Bugs','Bunny','567Carrot Street','Rascal',58);
```

```
INSERT into information
(FirstName,LastName,Address,City,Age)VALUES
('Wiley','Coyote','999Acme Way','Canyon',61);
```

```
INSERT into information
(FirstName,LastName,Address,City,Age)VALUES
('Cat','Women','234Purfet Street','Hairball',32);
```

```
INSERT into information
(FirstName,LastName,Address,City,Age)VALUES
('Tweety','Bird','534','Itotltaw',28);
```

Table 3 : - Employee and incentive

| Employee_id | First_name | Last_name | Salary | Joining_date | Department |
|-------------|------------|-----------|---------|----------------------|------------|
| 1 | John | Abraham | 1000000 | 01-JAN-13 12:00:00AM | Banking |
| 2 | Michael | Clarke | 800000 | 01-JAN-13 12:00:00AM | Insurance |
| 3 | Roy | Thomas | 700000 | 01-FEB-13 12:00:00AM | Banking |
| 4 | Tom | jose | 600000 | 01-FEB-13 12:00:00AM | Insurance |
| 5 | Jerry | Pinto | 650000 | 01-FEB-13 12:00:00AM | Insurance |
| 6 | Philip | Mathew | 750000 | 01-JAN-13 12:00:00AM | Service |
| 7 | TestName1 | 123 | 650000 | 01-JAN-13 12:00:00AM | Service |
| 8 | TestName2 | Lname% | 600000 | 01-FEB-13 12:00:00AM | Insurance |

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 |

->Create Table :

```
CREATE TABLE Employee (Employee_id int(10),First_name  
varchar(200),Last_name varchar(200),  
Salary int(10),Joining_date datetime,Department  
varchar(100));
```

->Insert Table :

Inch Column update query use in date formation

```
UPDATE `employee` SET `Joining_date`='2023-05-12'WHERE  
`employee`.`Employee_id`=1;
```

INSERT INTO

```
employee(Employee_id,First_name,Last_name,Salary,Joining  
_date,Department)VALUES
```

```
(1,'John','Abraham','1000000','01-jan-13 12.00.00  
AM','Banking');
```

INSERT INTO

```
employee(Employee_id,First_name,Last_name,Salary,Joining  
_date,Department)VALUES
```

```
(2,'Michael','Clarke',800000,'01-JAN-13 12.00.00  
AM','Insurance'),
```

INSERT INTO

```
employee(Employee_id,First_name,Last_name,Salary,Joining  
_date,Department)VALUES
```

```
(3,'Roy','Thomas',700000,'01-FEB-13 12.00.00 AM','Banking'),
```

```
INSERT INTO
employee(Employee_id,First_name,Last_name,Salary,Joining
_date,Department)VALUES
(4,'Tom','Jose',600000,'01-FEB-13 12.00.00 AM','Insuarnce'),
```

```
INSERT INTO
employee(Employee_id,First_name,Last_name,Salary,Joining
_date,Department)VALUES
(5,'Jerry','Pinto',650000,'01-FEB-13 12.00.00 AM','Insuarnce'),
```

```
INSERT INTO
employee(Employee_id,First_name,Last_name,Salary,Joining
_date,Department)VALUES
(6,'Philip','Mathew',750000,'01-JAN-13 12.00.00
AM','Service'),
```

```
INSERT INTO
employee(Employee_id,First_name,Last_name,Salary,Joining
_date,Department)VALUES
(7,'TestName1','123',650000,'01-JAN-13 12.00.00
AM','Service'),
```

```
INSERT INTO
employee(Employee_id,First_name,Last_name,Salary,Joining
_date,Department)VALUES
```

```
(8,'TestName2','Lname%',600000,'01-FEB-13 12.00.00 AM','Insuarncce');
```

Create table : Incentive:

```
CREATE TABLE Incentive (Employee_ref_id  
int(10),Incentave_date date,Incentave_amount int(20));
```

->Insert Table Incentive :

```
INSERT INTO  
incentive(Employee_ref_id,Incentave_date,Incentave_amou  
nt)VALUES(1,'01-FEB-13',5000);
```

```
INSERT INTO  
incentive(Employee_ref_id,Incentave_date,Incentave_amou  
nt)VALUES(2,'01-FEB-13',3000);
```

```
INSERT INTO  
incentive(Employee_ref_id,Incentave_date,Incentave_amou  
nt)VALUES(3,'01-FEB-13',4000);
```

```
INSERT INTO  
incentive(Employee_ref_id,Incentave_date,Incentave_amou  
nt)VALUES(1,'01-JAN-13',4500);
```


INSERT INTO

incentive(Employee_ref_id,Incentave_date,Incentave_amou
nt)VALUES(2,'01-JAN-13',3500);

Question Answer:-

Question a : Get First_Name from employee table using Tom
name "Employee Name"

Answer :-select First_name `First_name` FROM employee;

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

Answer :-SELECT First_name,Joining_date,Salary FROM
`employee`;

Question c : Get all employee details from the employee
table order by First_Name

Ascending and Salary descending?

Answer :-SELECT * FROM `employee` ORDER BY
employee.First_name ASC,employee.Salary DESC;

note:

SELECT * FROM `employee` ORDER BY employee.First_name
ASC;

```
SELECT * FROM `employee` ORDER BY  
employee.employee.Salary DESC;
```

Question d :- Get employee details from employee table whose first name contains 'J'.

Answer :- SELECT * FROM `employee` WHERE First_name LIKE '%j%';

Question e :- Get department wise maximum salary from employee table order by salary ascending?

Answer:->SELECT * FROM employee ORDER by Salary ASC;

Question f :- Select first_name, incentive amount from employee and incentives table for those employees who have incentives and incentive amount greater than 3000

Answer :-> SELECT FIRST_NAME, Incentave_amount FROM
EMPLOYEE INNER JOIN incentive
ON employee.EMPLOYEE_ID=incentive.EMPLOYEE_REF_ID
AND Incentave_amountT >3000;

Question g :- Create After Insert trigger on Employee table which insert records in view table

```
Answer :-> CREATE TABLE employee_audit (  
    id INT AUTO_INCREMENT PRIMARY KEY,  
    employeenumber INT NOT NULL,  
    first_name VARCHAR(50) NOT NULL,  
    salary int DEFAULT NULL,  
    action VARCHAR(50) DEFAULT NULL  
);
```

```
CREATE TRIGGER before_employee_update  
    BEFORE UPDATE ON employee  
    FOR EACH ROW  
INSERT INTO employee_audit  
SET action = 'update',  
    employeeNumber = OLD.employeeNumber,  
  
    lastname = OLD.lname,  
    changedat = NOW();
```

Table 4: salesperson and Customer:

Salesperson:

| PK_SNo | SNAME | CITY | COMM |
|--------|---------|-----------|------|
| 1001 | Peel | London | 0 |
| 1002 | Serres | San Jose | 0 |
| 1004 | Motika | London | 0 |
| 1007 | Rafkin | Barcelona | 0 |
| 1003 | Axelrod | New York | 0 |

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 | Ciemens | London | 300 | 1004 |
| 207 | Pereire | Roe | 100 | 1004 |

--->Create table :-

```
create TABLE Salesperson (SNo int(10) PRIMARY key,SNAME  
varchar(100),CITY varchar(200), COMM int(10));
```

---> INSERT TABLE:-

```
insert INTO salesperson (SNo,SNAME,CITY,COMM)  
VALUES(1001,'Peel','London',.12);
```

```
insert INTO salesperson (SNo,SNAME,CITY,COMM)
VALUES(1002,'Serres','San Jose',.13);
```

```
insert INTO salesperson (SNo,SNAME,CITY,COMM)
VALUES(1004,'Motika','London',.11);
```

```
insert INTO salesperson (SNo,SNAME,CITY,COMM)
VALUES(1007,'Rafkin','Barcelona',.15);
```

```
insert INTO salesperson (SNo,SNAME,CITY,COMM)
VALUES(1003,'Axelrod','New York',.1);
```

--->Create table :- Customer

```
CREATE TABLE Customer( Cnm int (20), C_name varchar(20) ,
City varchar(20) , Rating int(20) , SNO int(20) , PRIMARY KEY
(Cnm) ,FOREIGN KEY (SNO) REFERENCES salesperson (SNO));
```

---> INSERT TABLE:-

```
INSERT INTO
customer(Cnm,C_name,City,Rating,SNO)VALUES(201,'Hoffma
n','London',100,1001);
```

```
INSERT INTO
customer(Cnm,C_name,City,Rating,SNO)VALUES(202,'Giovan
ne','Roe',200,1003);
```

```
INSERT INTO
customer(Cnm,C_name,City,Rating,SNO)VALUES(202,'Giovan
ne','Roe',200,1003);
```

INSERT INTO

customer(Cnm,C_name,City,Rating,SNO)VALUES(203,'Liu','San Jose',300,1002);

INSERT INTO

customer(Cnm,C_name,City,Rating,SNO)VALUES(204,'Grass','Barcelona',100,1002);

INSERT INTO

customer(Cnm,C_name,City,Rating,SNO)VALUES(206,'Clemens','London',300,1007);

INSERT INTO

customer(Cnm,C_name,City,Rating,SNO)VALUES(207,'Pereira','Roe',100,1004);

Q.13.All orders for more than \$1000.

Answer:-Select * from salesperson where SNO > 1000;

Q.14.Names and cities of all salespeople in London with commission above 0.12

Answer:-SELECT SNAME, CITY , COMM FROM salesperson
WHERE COMM > 0.12 AND CITY = 'London';

Q.15.All salespeople either in Barcelona or in London

Answer:-Select SNAME, CITY from salesperson where CITY in ('Barcelona','London');

Q.16.All salespeople with commission between 0.10 and 0.12. (Boundary values should be excluded).

Answer:-SELECT SNAME , COMM FROM salesperson WHERE COMM > 0.10 AND COMM < 0.12;

Q.17. All customers excluding those with rating <= 100 unless they are located in Rome

Answer:-SELECT C_name FROM customer WHERE Rating <= 100 OR City = 'Rome';