**Q.1 Create Table Name : Student and Exam**

* **Create database:-**

Create database school;

* **Create student table:-**

CREATE TABLE student(rollno int PRIMARY KEY,

name varchar(20),

branch varchar(20));

* **Insert data in student table:-**

INSERT INTO student VALUES(1,"Jay","Computer science"),

(2,"Shuhani","Electronic and com"),

(3,"Krirti","Electronic and com");

* **Create exam table:-**

CREATE TABLE exam( Rollno int,

FOREIGN KEY(Rollno) REFERENCES school(rollno),

s\_code varchar(20),

marks int,

p\_code varchar(20));

* **Insert data in exam table:-**

INSERT INTO exam VALUES

(1,"CS11",50,"CS"),

(1,"CS12",50,"CS"),

(2,"EC101",66,"EC"),

(2,"EC102",70,"EC"),

(3,"EC101",45,"EC"),

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

**Q.2 Create table given below: Employee and IncentiveTable**

* **Create database:-**

CREATE DATABASE employee;

* **Create employee table:-**

CREATE TABLE employee(employee\_id int PRIMARY KEY AUTO\_INCREMENT,

first\_name varchar(20),

last\_name varchar(20),

salary bigint,

joining\_date datetime,

department varchar(20));

* **Insert data in employee table:-**

INSERT INTO employee VALUES

(1,"john","abraham",1000000,'2013-01-01 12.00.00 AM',"banking"),

(2,"michael","clarke",800000,'2013-01-01 12.00.00 AM',"insurance"),

(3,"roy","thoms",700000,'2013-01-01 12.00.00 AM',"banking"),

(4,"tom","jose",600000,'2013-01-01 12.00.00 AM',"insurance"),

(5,"jerry","pinto",650000,'2013-01-01 12.00.00 AM',"insurance"),

(6,"philip","mathew",750000,'2013-01-01 12.00.00 AM',"services"),

(7,"testname1",123,650000,'2013-01-01 12.00.00 AM',"services"),

(8,"testname2","lname%",600000,'2013-01-01 12.00.00 AM',"insurance");

* **Create incentive table:-**

CREATE TABLE incentive( employee\_ref\_id int ,

FOREIGN KEY( employee\_ref\_id) REFERENCES employee(employee\_id),

incentive\_data datetime,

incentive\_amount bigint

);

* **Insert data in incentive table:-**

INSERT INTO incentive 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);

**Q.3 Get First\_Name from employee table using Tom name “Employee Name”.**

* SELECT first\_name AS Tom

FROM employee;

**Q.4. Get FIRST\_NAME, Joining Date, and Salary from employee table.**

* SELECT first\_name,joining\_date,salary FROM employee;

**Q.5 Get all employee details from the employee table order by First\_Name Ascending and Salary descending?**

* SELECT \* FROM employee ORDER BY first\_name ASC;
* SELECT \* FROM employee ORDER BY salary DESC;

**Q.6 Get employee details from employee table whose first name contains ‘J’.**

* SELECT \* FROM employee

WHERE first\_name LIKE '%J%';

**Q.7 Get department wise maximum salary from employee table order by**

* SELECT department,MAX(salary) FROM employee;

**Q.8 salaryascending?**

* SELECT \* FROM employee ORDER BY salary ASC;

**Q.9 Select first\_name, incentive amount from employee and incentives table forthose employees who have incentives and incentive amount greater than3000**

* SELECT first\_name,incentive\_amount FROM employee,incentive WHERE employee.employee\_id = incentive.employee\_ref\_id and incentive.incentive\_amount>3000;

**Q.10 Create After Insert trigger on Employee table which insert records inviewtable**

DELIMITER $$

CREATE TRIGGER trg\_after\_employee\_insert

AFTER INSERT

ON Employee

FOR EACH ROW

BEGIN

INSERT INTO InViewTable (inview\_id\_id,inview\_first\_name,inview\_last\_name,inview\_salary,inview\_joining\_date,inview\_department)

VALUES (NEW.employee\_id, NEW.first\_name, NEW.last\_name,NEW.salary,NEW.joining\_date,NEW.department);

END;

**Q.11** **Create table given below: Salesperson and Customer**

* **Create database:-**

CREATE DATABASE sales;

* **Create salseperson table:-**

CREATE TABLE salesperson(sno int PRIMARY KEY,

sname varchar(20),

city varchar(20),

comm decimal(2,2));

* **Insert data in salseperson table:-**
* INSERT INTO salesperson values(1001,”peel”,”london”,.12),

(1002,”seeres”,”san jose”,.13),

(1004,”motika”,”london”,.11),

(1007,”rafkin”,”barcelona”,.15),

(1003,”axelrod”,”new york”,.1),

* **Create customer table:-**

CREATE TABLE customer(cnm int PRIMARY KEY, cname varchar(20),city varchar(20),rating int,sno int,FOREIGN KEY(sno) REFERENCES salesperson(sno));

* **Insert data in customer table:-**

INSERT INTO customer VALUES(201,”hoffman”,”london”,100,1001),

(202,”glovanne”,”roe”,200,1003),

(203,”liu”,”san jose”,300,1002),

(204,”grass”,”barcelona”,100,1002),

(206,”clemens”,”london”,300,1007),

(207,”pereira”,”roe”,100,1004);

**Q.12 Retrieve the below data from above table**

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

* SELECT \* FROM customer WHERE sno>1000;

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

* SELECT sname,city FROM salesperson WHERE city = 'London' AND comm > 0.12;

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

* SELECT \*FROM salesperson WHERE city IN ('Barcelona', 'London');

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

* SELECT \*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**

* SELECT \*FROM customer WHERE (rating > 100 OR city = 'Rome');

**Q.18 Write a SQL statement that displays all the information about all salespeople**

* **Create Database:-**

CREATE DATABASE salesman;

* **Create sales table:-**

CREATE TABLE sales(salesman\_id int PRIMARY KEY,name varchar(20),city varchar(20),commission decimal(2,2));

* **Inserte data sales table:-**

INSERT INTO sales VALUES(5001,"james hoog","new york",00.15),

(5002,"nail knite","paris",00.13),

(5005,"pit alex","new york",00.11),

(5006,"mc layon","paris",00.14),

(5007,"paul adam","rome",00.13),

(5003,"lauson hen","san jose",00.12);

* **Fatch all data:-**

SELECT \* FROM sales;

**Q.19 From the following table, write a SQL query to find orders that are delivered by a salesperson with ID. 5001. Return ord\_no, ord\_date, purch\_amt.**

* **Create orders table:-**

CREATE TABLE orders (ord\_no int PRIMARY KEY,

purch\_amt decimal(4,2),

ord\_date date,customer\_id int,

salesman\_id int,

FOREIGN KEY(salesman\_id)REFERENCES sales(salesman\_id));

* **Inserte data in orders table:-**

INSERT INTO orders VALUES(70001,150.5,'2012-10-05',3005,5002),

(70009,270.65,'2012-09-10',3001,5005),

(70002,65.26,'2012-10-05',3002,5001),

(70004,110.5,'2012-08-17',3009,5003),

(70007,948.5,'2012-09-10',3005,5002),

(70005,2400.5,'2012-07-27',3007,5001),

(70008,5760,'2012-09-10',3002,5001),

(70010,1983.43,'2012-10-10',3004,5006),

(70003,2480.4,'2012-10-10',3009,5003),

(70012,250.45,'2012-06-27',3008,5002),

(70011,75.29,'2012-08-17',3003,5007),

(70013,3045.6,'2012-04-25',3002,5001);

* SELECT ord\_no,ord\_date,purch\_amt FROM orders WHERE salesman\_id=5001;

**Q.20 From the following table, write a SQL query to select a range of products whose price is in the range Rs.200 to Rs.600. Begin and end values are included. Return pro\_id, pro\_name, pro\_price, and pro\_com**.

* **Create table:-**

CREATE TABLE item\_mast(pro\_id int PRIMARY KEY AUTO\_INCREMENT,

pro\_name varchar(20),

pro\_price DECIMAL(10,2),

pro\_com int);

* **Insert data in table:-**

INSERT INTO item\_mast VALUES(101,"mother board",3200.00,15),

(102,"key board",450.00,16),

(103,"zip drive",250.00,14),

(104,"speaker",550.00,16),

(105,"moniter",5000.00,11),

(106,"dvd drive",900.00,12),

(107,"cd drive",800.00,12),

(108,"printer",2600.00,13),

(109,"refillb cartridge",350.00,13),

(110,"mouse",250.00,12);

* SELECT \* FROM item\_mast WHERE pro\_price>=200 AND pro\_price<=600;

**Q.21 From the following table, write a SQL query to calculate the average price for a manufacturer code of 16. Return avg.**

* SELECT AVG(pro\_price) FROM item\_mast WHERE pro\_com=16;

**Q.23 From the following table, write a SQL query to find the items whose prices are higher than or equal to $250. Order the result by product price in descending, then product name in ascending. Return pro\_name and pro\_price.**

* SELECT pro\_name,pro\_price FROM item\_mast WHERE pro\_price>=200;
* SELECT pro\_name,pro\_price FROM item\_mast ORDER BY pro\_price DESC;
* SELECT pro\_name,pro\_price FROM item\_mast ORDER BY pro\_name ASC;

**Q.22 From the following table, write a SQL query to display the pro\_name as 'Item Name' and pro\_priceas 'Price in Rs.'**

* SELECT pro\_name AS 'Item Name', pro\_price AS 'Price in Rs.'FROM item\_mast;

**Q.24 From the following table, write a SQL query to calculate average price of the items for each company. Return average price and company code.**

* SELECT pro\_com, AVG(pro\_price) FROM item\_mast;