**Question-1**

**Table : Employee**

CREATE TABLE incentives(emp\_id int PRIMARY KEY AUTO\_INCREMENT,first\_name varchar(255),last\_name varchar(255),salary int,joining\_date date,department varchar(255));

INSERT INTO `employee` (`emp\_id`, `first\_name`, `last\_name`, `salary`, `joining\_date`, `department`)

VALUES (NULL, 'JOHN', 'ABRAHAM', '1000000', '2013-01-01', 'BANKING');

INSERT INTO `employee` (`emp\_id`, `first\_name`, `last\_name`, `salary`, `joining\_date`, `department`)

VALUES (NULL, 'MICHAL', 'CLERK', '800000', '2013-01-01', 'INSURANCE');

INSERT INTO `employee` (`emp\_id`, `first\_name`, `last\_name`, `salary`, `joining\_date`, `department`)

VALUES (NULL, 'ROY', 'THOMAS', '700000', '2013-02-01', 'BANKING');

INSERT INTO `employee` (`emp\_id`, `first\_name`, `last\_name`, `salary`, `joining\_date`, `department`)

VALUES (NULL, 'TOM', 'JOSE', '600000', '2013-01-01', 'INSURANCE');

INSERT INTO `employee` (`emp\_id`, `first\_name`, `last\_name`, `salary`, `joining\_date`, `department`)

VALUES (NULL, 'JERRY', 'PINTO', '650000', '2013-01-01', 'INSURANCE');

INSERT INTO `employee` (`emp\_id`, `first\_name`, `last\_name`, `salary`, `joining\_date`, `department`)

VALUES (NULL, 'PHILIP', 'MATHEW', '750000', '2013-01-01', 'SERVICE');

INSERT INTO `employee` (`emp\_id`, `first\_name`, `last\_name`, `salary`, `joining\_date`, `department`)

VALUES (NULL, 'TESTNAME1', '123', '650000', '2013-01-01', 'SERVICE');

INSERT INTO `employee` (`emp\_id`, `first\_name`, `last\_name`, `salary`, `joining\_date`, `department`)

VALUES (NULL, 'TESTNAME2', 'LNAME%', '600000', '2013-02-01', 'INSURANCE');

**Table: Incentive**

CREATE TABLE incentives(incentive\_id int PRIMARY KEY AUTO\_INCREMENT,emp\_id int,incentive\_date date,

incentive\_amt int,FOREIGN key (emp\_id) REFERENCES employee(emp\_id));

INSERT INTO `incentives` (`incentive\_id`, `emp\_id`, `incentive\_date`, `incentive\_amt`)

VALUES ('1', '1', '2013-02-01', '5000');

INSERT INTO `incentives` (`incentive\_id`, `emp\_id`, `incentive\_date`, `incentive\_amt`)

VALUES ('2', '2', '2013-02-01', '3000');

INSERT INTO `incentives` (`incentive\_id`, `emp\_id`, `incentive\_date`, `incentive\_amt`)

VALUES ('3', '3', '2013-02-01', '4000');

INSERT INTO `incentives` (`incentive\_id`, `emp\_id`, `incentive\_date`, `incentive\_amt`)

VALUES ('4', '1', '2013-01-01', '4500');

INSERT INTO `incentives` (`incentive\_id`, `emp\_id`, `incentive\_date`, `incentive\_amt`)

VALUES ('5', '2', '2013-01-01', '3500');a) Get First\_Name from employee table using alias name “Employee Name”.

select FIRST\_NAME AS "Employee Name" from employee;

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

c) Get all employee details from the employee table order by First Name Ascending And Salary descending?

SELECT \* FROM employee ORDER BY FIRST\_NAME AND SALARY DESC;

d) Get employee details from employee table whose first name contains „o‟.

select \* from employee where FIRST\_NAME like ‘%O%’;

e) Get employee details from employee table whose joining month is “January”.

SELECT \* FROM employee WHERE joining\_date='2013-01-01';

f) Get department, total salary with respect to a department from employee table Order By total salary descending.

select salary,DEPARTMENT from employee order by salary DESC;

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

SELECT DEPARTMENT,max(SALARY) from employee group by department order by SALARY;

h) 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, incentives.incentive\_amt FROM incentives INNER JOIN employee ON incentives.emp\_id=employee.emp\_id WHERE salary > 3000;

i) Select 2nd Highest salary from employee table.

j) Select first\_name, incentive amount from employee and incentives table for all Employees who got incentives using left join.

select FIRST\_NAME, incentive\_amount from employee left outer join incentives on employee.em\_id=incentives.EMP\_REF\_ID;

k) Create View OF Employee table in which store first name, last name and salary only.

SELECT FIRST\_NAME, LAST\_NAME, SALARY from employee;

l) Create Procedure to find out department wise highest salary.

SELECT DEPARTMENT,max(SALARY) from employee group by department;

m) Create after Insert trigger on Employee table which insert records in view table.

**Question:2**

**Table: Sales\_person**

create table Order1(SNo int PRIMARY KEY AUTO\_INCREMENT,SName varchar(255),City varchar(255), Comm float);

INSERT INTO `sales\_person`(`SNo`, `SName`, `City`, `Comm`)

VALUES (1001,'Peel','London',0.12);

INSERT INTO `sales\_person`(`SNo`, `SName`, `City`, `Comm`)

VALUES (1002,'Serres','San Jose',0.13);

INSERT INTO `sales\_person`(`SNo`, `SName`, `City`, `Comm`)

VALUES (1003,'Axelrod','New York',0.1);

INSERT INTO `sales\_person`(`SNo`, `SName`, `City`, `Comm`)

VALUES (1004,'Motika','London',0.11);

INSERT INTO `sales\_person`(`SNo`, `SName`, `City`, `Comm`)

VALUES (1007,'Rafkin','Barcelona',0.15);

**Table: Customer**

create table Customer(CNM int PRIMARY KEY AUTO\_INCREMENT,CName varchar(255),City varchar (255),Rating int ,

SNo int ,FOREIGN KEY(SNo) REFERENCES sales\_person(SNo));

INSERT INTO `customer`(`CNM`, `CName`, `City`, `Rating`, `SNo`)

VALUES (201,'Hoffman','London',100,1001);

INSERT INTO `customer`(`CNM`, `CName`, `City`, `Rating`, `SNo`)

VALUES (202,'Giovanne','Rome',200,1003);

INSERT INTO `customer`(`CNM`, `CName`, `City`, `Rating`, `SNo`)

VALUES (203,'Liu','San Jose',300,1002);

INSERT INTO `customer`(`CNM`, `CName`, `City`, `Rating`, `SNo`)

VALUES (204,'Grass','Barcelona',100,1002);

INSERT INTO `customer`(`CNM`, `CName`, `City`, `Rating`, `SNo`)

VALUES (206,'Clemens','London',300,1007);

INSERT INTO `customer`(`CNM`, `CName`, `City`, `Rating`, `SNo`)

VALUES (207,'Pereira','Rome',100,1004);

**Table: Order**

create table Order1(ONM int PRIMARY KEY AUTO\_INCREMENT,Amt float ,Ode date,CNM int , SNo int,

FOREIGN KEY(CNM) REFERENCES customer(CNM),FOREIGN KEY(SNo) REFERENCES sales\_person(SNo));

INSERT INTO `order1`(`ONM`, `Amt`, `Ode`, `CNM`, `SNo`)

VALUES (3001,18.69,1994-10-03,201,1007);

INSERT INTO `order1`(`ONM`, `Amt`, `Ode`, `CNM`, `SNo`)

VALUES (3002,1900.1,1994-10-03,207,1004);

INSERT INTO `order1`(`ONM`, `Amt`, `Ode`, `CNM`, `SNo`)

VALUES (3003,767.19,1994-10-03,201,1001);

INSERT INTO `order1`(`ONM`, `Amt`, `Ode`, `CNM`, `SNo`)

VALUES (3005,3005,1994-10-03,203,1002);

INSERT INTO `order1`(`ONM`, `Amt`, `Ode`, `CNM`, `SNo`)

VALUES (3006,3006,1994-10-04,201,1007);

INSERT INTO `order1`(`ONM`, `Amt`, `Ode`, `CNM`, `SNo`)

VALUES (3007,3007,1994-10-05,204,1002);

INSERT INTO `order1`(`ONM`, `Amt`, `Ode`, `CNM`, `SNo`)

VALUES (3008,3008,1994-10-05,206,1001);

INSERT INTO `order1`(`ONM`, `Amt`, `Ode`, `CNM`, `SNo`)

VALUES (3009,3009,1994-10-04,202,1003);

INSERT INTO `order1`(`ONM`, `Amt`, `Ode`, `CNM`, `SNo`)

VALUES (3010,3010,1994-10-06,204,1002);

INSERT INTO `order1`(`ONM`, `Amt`, `Ode`, `CNM`, `SNo`)

VALUES (3011,3011,1994-10-06,206,1001);

1. All orders for more than $1000.

select \* from ordertbl where AMT>1000;

1. Names and cities of all salespeople in London with commission above 0.10.

Select sname, city from sales\_person where comm > 0.10 and city = 'London';

1. All salespeople either in Barcelona or in London.

select \* from sales\_person where city='London' OR city='barcelona';

1. All salespeople with commission between 0.10 and 0.12. (Boundary values should Be excluded).

SELECT \* FROM sales\_person WHERE comm BETWEEN 0.10 AND 0.12;

1. All customers with NULL values in city column.

SELECT \* FROM Customer WHERE CITY IS NULL;

1. All orders taken on Oct 3Rd and Oct 4th 1994.

SELECT \* FROM ordertbl where ODE='1994-10-03' OR ODE='1994-10-04';

1. All customers serviced by peel or Motika.

SELECT CNAME from customer INNER JOIN sales\_person ON customer.SNO=sales\_person.SNO WHERE sname='Peel' OR sname='Motika';

1. All customers whose names begin with a letter from A to B

SELECT \* from customer where CNAME like 'A%' OR 'B%';

1. All customers excluding those with rating <= 100 unless they are located in Rome.
2. All orders except those with 0 or NULL value in AMT field.

SELECT \* from ordertbl where AMT !=0 or AMT is not null;

1. Count the number of salespeople currently listing orders in the order table.

select COUNT(DISTINCT SNO) from ordertbl;