**TASK1**

[CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-database.html" \t "mysql_doc) [DATABASE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-database.html) Task1;

CREATE TABLE Employee(Em\_id int PRIMARY KEY AUTO\_INCREMENT not null,First\_name varchar(325), Last\_name varchar(325),salary bigint, Joining\_date bigint, Department varchar(325));

INSERT INTO employee(First\_name,Last\_name,salary,Joining\_date,Department)VALUES ("johan","Abraham",1000000,2013-01-01,"Banking"),

("Mitchal","clarek",800000,2013-01-01,"Insurance"),

("Roy","Thomes",700000,2013-02-01,"Banking"),

("Tom","Jose",600000,2013-02-01,"Insurance"),

("Jeery","Pinto",650000,2013-01-01,"Insurance"),

("Philip","Mathew",750000,2013-01-01,"Services"),

("Testname1","123",650000,2013-01-01,"Services"),

("Testname2","Lname%",600000,2013-02-01,"Insurance");

CREATE TABLE Incentives (Incentives\_id int PRIMARY KEY AUTO\_INCREMENT not null, Refrence\_id int, Incentives\_date varchar(325), Incentives\_amt varchar(325));

Insert into incentives(Refrence\_id,Incentives\_date,Incentive\_amt)values

(1,01-feb-13,5000),

(2,01-feb-13,3000),

(3,01-feb-13,4000),

(1,01-feb-13,4500),

(2,01-feb-13,3500);

a) Get First\_Name from employee table using alias name “Employee Name”.

Ans) SELECT First\_Name AS "Employee Name" FROM employee;

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

Ans) SELECT FIRST\_NAME FROM employee;

SELECT YEAR(Joining\_Date) AS Joining\_Year FROM employee;

SELECT MONTH(Joining\_Date) AS Joining\_Month FROM employee;

SELECT DAY(Joining\_Date) AS Joining\_Day 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;

Select\*from employee order by salary dece;

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

Ans) SELECT \* FROM employee WHERE Customer Name LIKE '%o';

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

Ans) SELECT \* FROM employee WHERE EXTRACT(MONTH FROM joining\_date) = 1;

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

Ans) select\*from employee order by total salary desc;

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

Ans) SELECT department\_id, MAX(salary) AS max\_salary FROM employee ORDER BY max\_salary ASC;

i) Select 2nd Highest salary from employee table.

Ans) SELECT DISTINCT salary FROM employee ORDER BY salary DESC LIMIT 1 OFFSET 1;

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

Ans) SELECT e.first\_name, i.incentive\_amount FROM employee e LEFT JOIN incentives

ON e.employee\_id = i.employee\_id;

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

Ans) CREATE VIEW EmployeeView AS SELECT first\_name, last\_name, salary

FROM employee;

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

Ans)

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

Ans)

**TASK-2**

Create Database task2

CREATE TABLE salesperson(sno int PRIMARY KEY AUTO\_INCREMENT not null, Sname varchar(325),city varchar(325),comm varchar(325));

INSERT INTO salesperson(Sname,city,comm)VALUES

("Peel","London",0.12),

("Seeres","San Jose",0.13),

("Axelrode","New-york",0.1),

("Motika","London",0.11),

("Rafikan","Barcelona",0.15);

CREATE TABLE customer (cnm int, caname varchar(325),city varchar(325),Rating int, Sno int);

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","Rome",100,1004);

CREATE TABLE Order2(onm int ,Amt int, Ode varchar(325), cnm int, Sno int);

INSERT INTO order2(onm,Amt,Ode,cnm,Sno)VALUES

(3001,18.69,"1994-10-03",201,1007),

(3002,1900.1,"1994-10-03",207,1004),

(3003,767.19,"1994-10-03",201,1001),

(3005,3005,"1994-10-03",203,1002),

(3006,3006,"1994-10-04",201,1007),

(3007,3007,"1994-10-05",204,1002),

(3008,3008,"1994-10-05",206,1001),

(3009,3009,"1994-10-04",202,1003),

(3010,3010,"1994-10-06",204,1002),

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

a) All orders for more than $1000.

Ans) SELECT \* FROM orders WHERE Amt > 1000;

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

Ans) SELECT Name, City FROM Salespeople WHERE City = 'London' AND Commission > 0.10;

c) All salespeople either in Barcelona or in London.

Ans) SELECT Name, City FROM Salespeople WHERE City IN ('Barcelona', 'London');

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

Ans) SELECT Name, City, Commission FROM Salespeople WHERE Commission > 0.10 AND Commission < 0.12;

e) All customers with NULL values in city column.

Ans) SELECT \* FROM Customers WHERE City IS NULL;

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

Ans) SELECT \*FROM Orders WHERE OrderDate IN ('1994-10-03', '1994-10-04');

g) All customers serviced by peel or Motika.

Ans) SELECT \*FROM Customers WHERE Serviced By IN ('Peel', 'Motika');

h) All customers whose names begin with a letter from A to B

Ans) SELECT \*FROM Customers WHERE CustomerName LIKE 'A%'

SELECT \*FROM Customers WHERE CustomerName LIKE 'B%';

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

Ans) SELECT \*FROM Customers WHERE (Rating > 100) OR (City = 'Rome');

j) All orders except those with 0 or NULL value in amt field.

Ans) SELECT \* FROM Orders WHERE amt IS NOT NULL AND amt <> 0;

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

Ans) SELECT COUNT(DISTINCT Salesperson ID) AS Number Of Salespeople FROM Orders;