**Task-1**

**TABLE: - Employee**

Create table employee(employee\_id int primary key auto\_increment, first\_name varcher(100), last\_name varcher (100), Salary varcher (100), joining\_date date, department vercher(100))

INSERT INTO `employee`(`employee\_id`, `first\_name`, `Last\_name`, `salary`, `joining\_date`, `deparatment`) VALUES ('1','john','abraham','1000000','2023-01-01','braking')

INSERT INTO `employee`(`employee\_id`, `first\_name`, `Last\_name`, `salary`, `joining\_date`, `deparatment`) VALUES ('2','michael','clerk','800000','2023-01-01','insurance')

INSERT INTO `employee`(`employee\_id`, `first\_name`, `Last\_name`, `salary`, `joining\_date`, `deparatment`) VALUES ('3','roy','thomas','700000','2023-01-01','baking')

INSERT INTO `employee`(`employee\_id`, `first\_name`, `Last\_name`, `salary`, `joining\_date`, `deparatment`) VALUES ('4','tom','jose','600000','2023-01-01','insurance')

INSERT INTO `employee`(`employee\_id`, `first\_name`, `Last\_name`, `salary`, `joining\_date`, `deparatment`) VALUES ('5','jerry','pinto','650000','2023-01-01','insurance')

INSERT INTO `employee`(`employee\_id`, `first\_name`, `Last\_name`, `salary`, `joining\_date`, `deparatment`) VALUES ('6','phifip','mathew','750000','2023-01-01','services')

INSERT INTO `employee`(`employee\_id`, `first\_name`, `Last\_name`, `salary`, `joining\_date`, `deparatment`) VALUES ('7',' testname1',' 123',' 650000','2023-01-01',' services')

INSERT INTO `employee`(`employee\_id`, `first\_name`, `Last\_name`, `salary`, `joining\_date`, `deparatment`) VALUES ('7',' testname2',' lname1',' 600000','2023-01-01',' insurance')

**TABLE: - Incentives**

Create table incentives( incentive\_id int PRIMARY key AUTO\_INCREMENT, employee\_id int(11), FOREIGN key(employee\_id) REFERENCES employee(id),incentive\_date date, incentives\_AMT varchar(100))

INSERT INTO `incenstives`(`incenstive\_id`, `employee\_id`, `incenstive\_date`, `incenstive\_amt`) VALUES ('1','1','2023-02-01','5000')

INSERT INTO `incenstives`(`incenstive\_id`, `employee\_id`, `incenstive\_date`, `incenstive\_amt`) VALUES ('2','2','2023-02-01','3000')

INSERT INTO `incenstives`(`incenstive\_id`, `employee\_id`, `incenstive\_date`, `incenstive\_amt`) VALUES ('3','3','2023-02-01','4000')

INSERT INTO `incenstives`(`incenstive\_id`, `employee\_id`, `incenstive\_date`, `incenstive\_amt`) VALUES ('4','1','2023-01-01','4500')

INSERT INTO `incenstives`(`incenstive\_id`, `employee\_id`, `incenstive\_date`, `incenstive\_amt`) VALUES ('5','2','2023-01-01','3500')

1. **Get First\_Name from employee table using alias name “Employee Name”.**

SELECT first\_name “employee\_name” FROM employee;

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

SELECT first\_name,

TO\_CHAR(joining\_date,'YYYY') JOINYEAR ,

TO\_CHAR(joining\_date,'MON'),

TO\_CHAR(joining\_date,'DD') 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 „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 TO\_CHAR(joining\_date,'MON')='01'

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

SELECT deparatment, MAX(salary)

FROM employee

GROUP BY ‘departament’

ORDER BY MAX(salary) DESC;

**h) Select first\_name, incentive amount from employee and incentives table for those Employees who have incentives and incentive amount greater than 3000**

SELECT first\_name,incenstive \_AMT

FROM employee A INNER JOIN incenstives B

ON A.employee\_id =B.enployee\_id

AND incenstive\_AMT >3000;

1. **Select 2nd Highest salary from employee table.**

SELECT MAX(salary) AS Second\_Highest\_Salary

FROM employee

WHERE salary < (SELECT MAX(salary) FROM employee);

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

SELECT first\_name,NVL(incenstive\_AMT,0)

FROM employee A RIGHT JOIN incenstives B

ON A.employee\_id=B.employee\_id;

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

[CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-view.html) [VIEW](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-view.html) employee\_id AS

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) first\_name, Last\_name, salary

FROM employee;

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

CREATE PROCEDURE DepartmentWiseHighestSalary()

BEGIN

SELECT department\_id, MAX(salary) AS highest\_salary

FROM employee

GROUP BY department\_id;

END;

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

CREATE TRIGGER after\_employee\_insert

AFTER INSERT ON employee

FOR EACH ROW

BEGIN

INSERT INTO employee\_view (first\_name, last\_name, salary)

VALUES (NEW.first\_name, NEW.last\_name, NEW.salary);

END**;**

**Task-2**

**TABLE – SALES PERSON**

CREATE TABLE selesperson(s\_no int(11) PRIMARY KEY AUTO\_INCREMENT,sname varchar(100),city varchar(100),comm varchar(100))

INSERT INTO `selesperson`(`s\_no`, `sname`, `city`, `comm`) VALUES ('1001','peel','london','0.12')

INSERT INTO `selesperson`(`s\_no`, `sname`, `city`, `comm`) VALUES ('1002','serres','san jose','0.13')

INSERT INTO `selesperson` (`s\_no`, `sname`, `city`, `comm`) VALUES ('1003', 'axelrod', 'new yoek', '0.1')

INSERT INTO `selesperson` (`s\_no`, `sname`, `city`, `comm`) VALUES ('1004', 'motika', 'london', '0.11')

INSERT INTO `selesperson` (`s\_no`, `sname`, `city`, `comm`) VALUES ('1007', 'rafkin', 'barcelona', '0.15')

**TABLE – CUSTOMER**

CREATE TABLE customer(c\_nm int(11) PRIMARY KEY AUTO\_INCREMENT,cname varchar(100),city varchar(100),rating varchar(100),s\_no int(11),FOREIGN KEY(s\_no)REFERENCES selesperson(s\_no))

INSERT INTO customer(`c\_nm`, `cname`, `city`, `rating`, `s\_no`) VALUES ('201', 'hoffman', 'london', '100', '1001')

INSERT INTO customer(`c\_nm`, `cname`, `city`, `rating`, `s\_no`) VALUES ('202', 'golvanne', 'rome', '200', '1003')

INSERT INTO customer(`c\_nm`, `cname`, `city`, `rating`, `s\_no`) VALUES ('203', 'liu', 'san jose', '300', '1002')

INSERT INTO customer(`c\_nm`, `cname`, `city`, `rating`, `s\_no`) VALUES ('204', 'grass', 'barcelona', '100', '1002')

INSERT INTO customer(`c\_nm`, `cname`, `city`, `rating`, `s\_no`) VALUES ('206', 'clemens', 'london', '300', '1007')

INSERT INTO customer(`c\_nm`, `cname`, `city`, `rating`, `s\_no`) VALUES ('207', 'pereira', 'rome', '100', '1004')

**TABLE – ORDER**

CREATE TABLE oder(o\_nm int(11) PRIMARY KEY AUTO\_INCREMENT,amt varchar(100),ODE Date,c\_nm int(11),FOREIGN KEY(c\_nm)REFERENCES customer(c\_nm),s\_no int(11),FOREIGN KEY(s\_no)REFERENCES selesperson(s\_no))

INSERT INTO oder(`o\_nm`, `amt`, `ode`, `c\_nm`, `s\_no`) VALUES ('3001', '13.69', '1994-10-03', '201', '1007')

INSERT INTO oder(`o\_nm`, `amt`, `ode`, `c\_nm`, `s\_no`) VALUES ('3002', '1900.1', '1994-10-03', '207', '1004')

INSERT INTO oder(`o\_nm`, `amt`, `ode`, `c\_nm`, `s\_no`) VALUES ('3005', '3005', '1994-10-03', '203', '1001')

INSERT INTO oder(`o\_nm`, `amt`, `ode`, `c\_nm`, `s\_no`) VALUES ('3006', '3006', '1994-10-03', '201', '1007')

INSERT INTO oder(`o\_nm`, `amt`, `ode`, `c\_nm`, `s\_no`) VALUES ('3007', '3007', '1994-10-03', '204', '1002')

INSERT INTO oder(`o\_nm`, `amt`, `ode`, `c\_nm`, `s\_no`) VALUES ('3008', '3008', '1994-10-03', '206', '1001')

INSERT INTO oder(`o\_nm`, `amt`, `ode`, `c\_nm`, `s\_no`) VALUES ('3009', '3009', '1994-10-03', '202', '1003')

INSERT INTO oder(`o\_nm`, `amt`, `ode`, `c\_nm`, `s\_no`) VALUES ('3010', '3010', '1994-10-03', '204', '1002')

INSERT INTO oder(`o\_nm`, `amt`, `ode`, `c\_nm`, `s\_no`) VALUES ('3011', '3011', '1994-10-03', '206', '1001')

1. **All orders for more than $1000.**

SELECT \* FROM orders WHERE amount > 1000;

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

SELECT sname, city FROM selesperson WHERE london;

**c) All salespeople either in Barcelona or in London.**

SELECT sname, city FROM selesperson WHERE Barcelona, london;

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

SELECT \*

FROM selesperson

WHERE commission BETWEEN 0.1 AND 0.12

**e) All customers with NULL values in city column.**

SELECT city

FROM customer

WHERE city IS NULL;

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

SELECT \* FROM orders WHERE order\_date = '1994-10-03' OR order\_date = '1994-10-04';

**g) All customers serviced by peel or Motika.**

SELECT \*

FROM customer

WHERE cname LIKE (‘p%’,‘h%’)

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

SELECT \*

FROM customer

WHERE LEFT(name, 1) BETWEEN ‘g’ AND ‘h’

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

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

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

SELECT \* FROM orders WHERE amt IS NOT NULL AND amt <> 0;

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

SELECT COUNT(DISTINCT salesperson\_id) AS number\_of\_salespeople FROM orders;