**Topic – SQL  Task -1**

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

**Quarry:-** [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) first\_name as "employee name" FROM employee;

**B) Get FIRST\_NAME, Joining year, Joining Month and Joining Date from**

**employee table.**

**Quarry:-** [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) FIRST\_NAME, joining\_year, joining\_month, joining\_date from EMPLOYEE;

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

**Quarry**:- [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* FROM employee ORDER BY first\_name DESC;

**(D)Get employee details from the employee table whose first name contains „o‟.**

**Quarry**:- [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* FROM EMPLOYEE WHERE FIRST\_NAME [LIKE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-comparison-functions.html#operator_like) 'o%';

**(E)Get employee details from the employee table whose joining month is “January”.**

**Quarry:-** [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* FROM EMPLOYEE WHERE joining\_month='january';

**(F)Get department, total salary with respect to a department from employee table order By total salary descending.**

**Quarry:-**[select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from employee\_table ORDER BY department, salary desc;

**(G)Get department wise maximum salary from employee table order by salary Ascending.**

**Quarry:**[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) department, [MAX](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/aggregate-functions.html%23function_max)(salary) MAXsalary FROM employee\_table GROUP BY department ORDER BY MAXsalary ASC;

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

**Quarry:**[Select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) first\_name,incentive\_amt from employee a inner join incentives b on a.em\_id=b.employee\_ref\_id [and](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_and) incentive\_amt >3000;

**(I) Select 2nd Highest salary from employee table.**

**Quarry:**[select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \*from employee group by salary order by salary desc limit 1,1;

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

**Quarry:**[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) incentives\_table.Incentive\_amt, employee\_table.first\_name FROM incentives\_table [LEFT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-functions.html%23function_left) JOIN employee\_table ON incentives\_table.insentive\_id = employee\_table.em\_id;

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

**Quarry:-** CREATE VIEW employee\_view as SELECT first\_name , last\_name, salary FROM employee;

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

**Quarry:-** [CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-procedure.html) [PROCEDURE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-procedure.html) sell\_emp() BEGIN [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) department, [MAX](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/aggregate-functions.html%23function_max)(salary) FROM employee GROUP BY department;

END;

[CALL](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/call.html) sell\_emp();

**(M) Create After Insert trigger on Employee table which insert records in view table.**

**Quarry:-** CREATE TABLE emp\_log (em\_id int(10), first\_name varchar(50), last\_name varchar(50), salary int(50), joining\_year varchar(60), joining\_month varchar(20), joining\_date varchar(20), department varchar(50), entry\_date\_time datetime);

CREATE TRIGGER insert\_trigger\_emp AFTER INSERT ON employee FOR EACH ROW

BEGIN

insert into emp\_log(em\_id,first\_name,last\_name,salary,joining\_year,joining\_month,joining\_date,department,Entry\_date\_time) values (new.em\_id,new.first\_name,new.last\_name,new.salary,new.joining\_year,new.joining\_month,new.joining\_date,new.department,now());

END

**TASK-2:**

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

**Quarry:-** [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from order\_table WHERE AMT > 1000;

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

**Quarry:**[Select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) sname, city from sales\_table where COMM > 0.10 [and](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_and) city = 'london';

1. **All salespeople either in Barcelona or in London.**

**Quarry:**[Select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from sales\_table where city='Barcelona' [OR](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_or) city= 'London';

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

**Quarry:-** [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* FROM sales\_table WHERE comm > 0.10 [and](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_and) comm < 0.12;

1. **All customers with NULL values in city column.**

**Quarry:-** [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* FROM `customer\_table` WHERE city [is](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/comparison-operators.html%23operator_is) null;

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

**Quarry:-** [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* FROM `order\_table` WHERE ODE [IN](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/comparison-operators.html%23function_in) ('1994-10-03','1994-10-04');

1. **All customers serviced by peel or Motika.**

**Quarry:**[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) sales\_table.sname FROM customer\_table INNER JOIN sales\_table ON customer\_table.sno = sales\_table.sno WHERE sname = 'peel' [or](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_or) 'motika';

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

**Quarry:**[Select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) cname from customer\_table WHERE cname [like](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-comparison-functions.html%23operator_like) 'a%' [or](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_or) cname [like](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-comparison-functions.html%23operator_like) 'b%';

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

**Quarry:**[Select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from customer\_table WHERE rating <= 100 [or](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_or) city = 'rome';

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

**Quarry:-** [Select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from order\_table WHERE amt != 0 [or](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_or) amt [is](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/comparison-operators.html%23operator_is) [not](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) null;

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

**Quarry:-** [Select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) [count](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/aggregate-functions.html%23function_count)(DISTINCT sno) from order\_table;