**Topic – SQL Task-1**

**TABLE- Employee , Incentives**

**A)Ans:** [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)Ans:** [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) FIRST\_NAME, YEAR(Joining\_Date) AS Joining\_Year , MONTH(Joining\_Date) AS Joining\_Month, DAY(Joining\_Date) AS Joining\_Date FROM employee;

**C)Ans:** [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* FROM employee ORDER BY First\_Name ASC, Salary DESC;

**D)Ans:** [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* FROM employee WHERE First\_Name LIKE '%o%';

**E)Ans:** [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* FROM employee WHERE MONTH(Joining\_Date) = 1;

**F)Ans:** [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) Department, [SUM](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/aggregate-functions.html%23function_sum)(Salary) AS Total\_Salary FROM employee GROUP BY Department ORDER BY Total\_Salary DESC;

**G)Ans:** [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) AS Highest\_Salary FROM employee GROUP BY Department;

**H)Ans:** [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) e.first\_name, i.incentive\_amount

FROM employee e JOIN incentives i ON e.employee\_id = i.employee\_id WHERE i.incentive\_amount > 3000;

**I)Ans:** [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) DISTINCT salary FROM employee ORDER BY salary DESC

LIMIT 1 OFFSET 1;

**j)Ans:** [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) e.first\_name, COALESCE(i.incentive\_amount, 0) AS incentive\_amount

FROM employee e

LEFT JOIN incentives i ON e.employee\_id = i.employee\_id;

**K)Ans:** CREATE VIEW employee\_view 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;

i)DELIMITER //

CREATE PROCEDURE find\_department\_max\_salary()

BEGIN

DECLARE done INT DEFAULT FALSE;

DECLARE dept\_id INT;

DECLARE max\_salary DECIMAL(10, 2);

DECLARE cur CURSOR FOR

SELECT DISTINCT department\_id FROM employee;

DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = TRUE;

OPEN cur;

read\_loop: LOOP

FETCH cur INTO dept\_id;

IF done THEN

LEAVE read\_loop;

END IF;

SELECT MAX(salary)

INTO max\_salary

FROM employee

WHERE department\_id = dept\_id;

SELECT CONCAT('Department ', dept\_id, ': ', max\_salary) AS result;

END LOOP;

CLOSE cur;

END //

DELIMITER ;

**M)Ans:** 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);

**Topic – SQL Task-2**

**TABLE- Sales Person , Customer ,Order**

**A ) Ans:** SELECT \*FROM orders WHERE amount > 1000;

**B) Ans:** SELECT name, city FROM salespeople WHERE city='London' AND commission > 0.10;

**C) Ans:** SELECT \* FROM salespeople WHERE city IN ('Barcelona', 'London');

**D) Ans:** SELECT \* FROM salespeople WHERE commission > 0.10 AND commission < 0.12;

**E) Ans:** SELECT \* FROM customers WHERE city IS NULL;

**F)Ans:** SELECT \* FROM orders WHERE order\_date >= '1994-10-03' AND order\_date < '1994-10-05';

**G)Ans:** **:** SELECT \* FROM customers WHERE service\_rep IN ('Peel', 'Motika');

**H) Ans:** [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* FROM customers WHERE (rating > 100 OR (rating <= 100 AND city = 'Rome'));

**I) Ans:** [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* FROM customers WHERE (rating > 100 OR (rating <= 100 AND city = 'Rome'));

**J) Ans:** [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* FROM orders WHERE amount IS NOT NULL AND amount <> 0;

**K)Ans:** [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) COUNT(DISTINCT salesperson\_id) AS num\_salespeople FROM orders;