**Nested Queries:**

**Q1.Display the details of employee who having a maximum salary in a table.**

mysql> select \*

-> from e

-> where salary=(select max(salary)from e);

+------+-------+-------------+----------+-----------------+-------------+--------+------------+

| eno | ename | designation | city | date\_of\_joining | email | salary | phoneno |

+------+-------+-------------+----------+-----------------+-------------+--------+------------+

| 104 | Nayra | HR | gujrat | 21-4-2022 | n@gmail.com | 820000 | 1234567890 |

| 106 | Priya | CEO | Kolhapur | 11-10-2012 | p@gmail.com | 820000 | 1234567890 |

+------+-------+-------------+----------+-----------------+-------------+--------+------------+

2 rows in set (0.06 sec)

**Q2. Add address column in given table.**

mysql> alter table e

-> add column address varchar(50);

Query OK, 0 rows affected (0.39 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc e;

+-----------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-----------------+-------------+------+-----+---------+-------+

| eno | int | YES | | NULL | |

| ename | varchar(50) | YES | | NULL | |

| designation | varchar(50) | YES | | NULL | |

| city | varchar(50) | YES | | NULL | |

| date\_of\_joining | varchar(50) | YES | | NULL | |

| email | varchar(20) | YES | | NULL | |

| salary | int | YES | | NULL | |

| phoneno | int | YES | | NULL | |

| address | varchar(50) | YES | | NULL | |

+-----------------+-------------+------+-----+---------+-------+

9 rows in set (0.00 sec)

**Q3. Add email column in given table.**

mysql> desc e;

+-----------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-----------------+-------------+------+-----+---------+-------+

| eno | int | YES | | NULL | |

| ename | varchar(50) | YES | | NULL | |

| designation | varchar(50) | YES | | NULL | |

| city | varchar(50) | YES | | NULL | |

| date\_of\_joining | varchar(50) | YES | | NULL | |

| email | varchar(20) | YES | | NULL | |

| salary | int | YES | | NULL | |

| phoneno | int | YES | | NULL | |

| address | varchar(50) | YES | | NULL | |

+-----------------+-------------+------+-----+---------+-------+

9 rows in set (0.00 sec)

**Q.4 Update Address column of employee.**

mysql> update e

-> set address='landon'

-> where eno=101;

Query OK, 1 row affected (0.09 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select\* from e;

+------+---------+-------------+----------+-----------------+-------------+--------+------------+---------+

| eno | ename | designation | city | date\_of\_joining | email | salary | phoneno | address |

+------+---------+-------------+----------+-----------------+-------------+--------+------------+---------+

| 101 | Suhani | Assistant | satara | 12-12-2022 | s@gmail.com | 41000 | 1234567890 | landon |

| 102 | Kajal | CEO | pune | 11-10-2022 | k@gmail.com | 82000 | 1234567890 | NULL |

| 103 | Vedika | Cashier | Surat | 1-11-2024 | v@gmail.com | 410000 | 1234567890 | NULL |

| 104 | Nayra | HR | gujrat | 21-4-2022 | n@gmail.com | 820000 | 1234567890 | NULL |

| 105 | Angha | manager | Mumbai | 14-1-2022 | a@gmail.com | 102500 | 1234567890 | NULL |

| 106 | Priya | CEO | Kolhapur | 11-10-2012 | p@gmail.com | 820000 | 1234567890 | NULL |

| 107 | Manjali | HR | Sangli | 11-7-2022 | m@gmail.com | 205000 | 1234567890 | NULL |

| 108 | Neha | developer | pune | 19-1-2022 | n@gmail.com | 86100 | 1234567890 | NULL |

| 109 | Harshda | tester | pune | 11-12-2022 | h@gmail.com | 82000 | 1234567890 | NULL |

+------+---------+-------------+----------+-----------------+-------------+--------+------------+---------+

9 rows in set (0.00 sec)

**Q.5 Display department wise details of employee.**

mysql> select ename,city

-> from e

-> group by ename,city;

+---------+----------+

| ename | city |

+---------+----------+

| Suhani | satara |

| Kajal | pune |

| Vedika | Surat |

| Nayra | gujrat |

| Angha | Mumbai |

| Priya | Kolhapur |

| Manjali | Sangli |

| Neha | pune |

| Harshda | pune |

+---------+----------+

9 rows in set (0.00 sec)

**Q.6Display total salary of employee of each department.**

mysql> select sum(salary)as salary

-> from e

-> group by ename;

+--------+

| salary |

+--------+

| 41000 |

| 82000 |

| 410000 |

| 820000 |

| 102500 |

| 820000 |

| 205000 |

| 86100 |

| 82000 |

+--------+

9 rows in set (0.00 sec)

**Q.7 Display AVG salary of employee of CEO.**

mysql> select avg(salary)

-> from e

-> where eno=106;

+-------------+

| avg(salary) |

+-------------+

| 820000.0000 |

+-------------+

1 row in set (0.00 sec)

**Q.8 Display the details of each employee whose designation is Cashier.**

mysql> select \*

-> from e

-> where designation='Cashier';

+------+--------+-------------+-------+-----------------+-------------+--------+------------+---------+

| eno | ename | designation | city | date\_of\_joining | email | salary | phoneno | address |

+------+--------+-------------+-------+-----------------+-------------+--------+------------+---------+

| 103 | Vedika | Cashier | Surat | 1-11-2024 | v@gmail.com | 410000 | 1234567890 | NULL |

+------+--------+-------------+-------+-----------------+-------------+--------+------------+---------+

1 row in set (0.00 sec)

**Q.9 Count the total no of employee of each table.**

mysql> select count(eno)

-> from e;

+------------+

| count(eno) |

+------------+

| 9 |

+------------+

1 row in set (0.00 sec)

**Q.10 delete details of employee whose designation is project manager.**

mysql> select \* from e;

+------+---------+-------------+----------+-----------------+-------------+--------+------------+---------+

| eno | ename | designation | city | date\_of\_joining | email | salary | phoneno | address |

+------+---------+-------------+----------+-----------------+-------------+--------+------------+---------+

| 101 | Suhani | Assistant | satara | 12-12-2022 | s@gmail.com | 41000 | 1234567890 | landon |

| 102 | Kajal | CEO | pune | 11-10-2022 | k@gmail.com | 82000 | 1234567890 | NULL |

| 104 | Nayra | HR | gujrat | 21-4-2022 | n@gmail.com | 820000 | 1234567890 | NULL |

| 105 | Angha | manager | Mumbai | 14-1-2022 | a@gmail.com | 102500 | 1234567890 | NULL |

| 106 | Priya | CEO | Kolhapur | 11-10-2012 | p@gmail.com | 820000 | 1234567890 | NULL |

| 107 | Manjali | HR | Sangli | 11-7-2022 | m@gmail.com | 205000 | 1234567890 | NULL |

| 108 | Neha | developer | pune | 19-1-2022 | n@gmail.com | 86100 | 1234567890 | NULL |

| 109 | Harshda | tester | pune | 11-12-2022 | h@gmail.com | 82000 | 1234567890 | NULL |

+------+---------+-------------+----------+-----------------+-------------+--------+------------+---------+

8 rows in set (0.00 sec)

**Q.11 Display the name of employee whose location is”sangli” and “Manjali” is working it.**

mysql> select ename

-> from e

-> where city='sangli' and ename='Manjali';

+---------+

| ename |

+---------+

| Manjali |

+---------+

1 row in set (0.00 sec)

**Q.12 Update the address of employee to Mumbai dubai location.**

mysql> UPDATE e SET address='dubai'WHERE address='landon';

Query OK, 1 row affected (0.13 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from e;

+------+---------+-------------+----------+-----------------+-------------+--------+------------+---------+

| eno | ename | designation | city | date\_of\_joining | email | salary | phoneno | address |

+------+---------+-------------+----------+-----------------+-------------+--------+------------+---------+

| 101 | Suhani | Assistant | satara | 12-12-2022 | s@gmail.com | 41000 | 1234567890 | dubai |

| 102 | Kajal | CEO | pune | 11-10-2022 | k@gmail.com | 82000 | 1234567890 | NULL |

| 104 | Nayra | HR | gujrat | 21-4-2022 | n@gmail.com | 820000 | 1234567890 | NULL |

| 105 | Angha | manager | Mumbai | 14-1-2022 | a@gmail.com | 102500 | 1234567890 | NULL |

| 106 | Priya | CEO | Kolhapur | 11-10-2012 | p@gmail.com | 820000 | 1234567890 | NULL |

| 107 | Manjali | HR | Sangli | 11-7-2022 | m@gmail.com | 205000 | 1234567890 | NULL |

| 108 | Neha | developer | pune | 19-1-2022 | n@gmail.com | 86100 | 1234567890 | NULL |

| 109 | Harshda | tester | pune | 11-12-2022 | h@gmail.com | 82000 | 1234567890 | NULL |

+------+---------+-------------+----------+-----------------+-------------+--------+------------+---------+

8 rows in set (0.00 sec)

**Q.13 display the employee details having Minimum salary.**

mysql> select min(salary)

-> from e;

+-------------+

| min(salary) |

+-------------+

| 41000 |

+-------------+

1 row in set (0.00 sec)

**Q.14 Update the salary of employee 5% whose name are start with a% name ends with %a city belongs to either pune and satara.**

mysql> UPDATE e SET salary=salary\*1.05 WHERE ename LIKE's%i' AND city IN ('pune','satara');

Query OK, 1 row affected (0.10 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from e;

+------+---------+-------------+----------+-----------------+-------------+--------+------------+---------+

| eno | ename | designation | city | date\_of\_joining | email | salary | phoneno | address |

+------+---------+-------------+----------+-----------------+-------------+--------+------------+---------+

| 101 | Suhani | Assistant | satara | 12-12-2022 | s@gmail.com | 43050 | 1234567890 | dubai |

| 102 | Kajal | CEO | pune | 11-10-2022 | k@gmail.com | 82000 | 1234567890 | NULL |

| 104 | Nayra | HR | gujrat | 21-4-2022 | n@gmail.com | 820000 | 1234567890 | NULL |

| 105 | Angha | manager | Mumbai | 14-1-2022 | a@gmail.com | 102500 | 1234567890 | NULL |

| 106 | Priya | CEO | Kolhapur | 11-10-2012 | p@gmail.com | 820000 | 1234567890 | NULL |

| 107 | Manjali | HR | Sangli | 11-7-2022 | m@gmail.com | 205000 | 1234567890 | NULL |

| 108 | Neha | developer | pune | 19-1-2022 | n@gmail.com | 86100 | 1234567890 | NULL |

| 109 | Harshda | tester | pune | 11-12-2022 | h@gmail.com | 82000 | 1234567890 | NULL |

+------+---------+-------------+----------+-----------------+-------------+--------+------------+---------+

8 rows in set (0.00 sec)

**Q.15 Display the details of employee who having minimum salary but he/she belong to pune or satara city & ename contains 's' or 's' character**

mysql> SELECT \*FROM e WHERE (city = 'pune' OR city = 'satara')AND (ename LIKE '%a%' OR ename LIKE '%a%')AND salary = (SELECT MIN(salary) FROM e WHERE city IN ('pune', 'satara'));

+------+--------+-------------+--------+-----------------+-------------+--------+------------+---------+

| eno | ename | designation | city | date\_of\_joining | email | salary | phoneno | address |

+------+--------+-------------+--------+-----------------+-------------+--------+------------+---------+

| 101 | Suhani | Assistant | satara | 12-12-2022 | s@gmail.com | 43050 | 1234567890 | dubai |

+------+--------+-------------+--------+-----------------+-------------+--------+------------+---------+

1 row in set (0.00 sec)

**Q.16 Display the employee details city wise whose salary is greater than 100000.**

mysql> SELECT city,MAX(salary) as max\_salary FROM e GROUP BY city HAVING MAX(salary)>100000;

+----------+------------+

| city | max\_salary |

+----------+------------+

| gujrat | 820000 |

| Mumbai | 102500 |

| Kolhapur | 820000 |

| Sangli | 205000 |

+----------+------------+

4 rows in set (0.00 sec)

**OR**

mysql> SELECT DISTINCT city FROM e WHERE salary>100000;

+----------+

| city |

+----------+

| gujrat |

| Mumbai |

| Kolhapur |

| Sangli |

+----------+

4 rows in set (0.00 sec)

**Q.16 Display only 1 record from given table which are live in Kolhapur and salary is<120000000.**

mysql> SELECT \* from e WHERE city='kolhapur' AND salary <1200000 ORDER BY salary DESC LIMIT 1;

+------+-------+-------------+----------+-----------------+-------------+--------+------------+---------+

| eno | ename | designation | city | date\_of\_joining | email | salary | phoneno | address |

+------+-------+-------------+----------+-----------------+-------------+--------+------------+---------+

| 106 | Priya | CEO | Kolhapur | 11-10-2012 | p@gmail.com | 820000 | 1234567890 | NULL |

+------+-------+-------------+----------+-----------------+-------------+--------+------------+---------+

1 row in set (0.06 sec)

mysql> SELECT \* from e where city='satara' AND salary <1200000 ORDER BY salary DESC LIMIT 2;

+------+--------+-------------+--------+-----------------+-------------+--------+------------+---------+

| eno | ename | designation | city | date\_of\_joining | email | salary | phoneno | address |

+------+--------+-------------+--------+-----------------+-------------+--------+------------+---------+

| 101 | Suhani | Assistant | satara | 12-12-2022 | s@gmail.com | 43050 | 1234567890 | dubai |

+------+--------+-------------+--------+-----------------+-------------+--------+------------+---------+

1 row in set (0.00 sec)

**Q.17 Company has decided decrease salary by 15% of all the employee whose salary is between 800000 to 1000000**

mysql> update e

-> set salary=salary\*0.85

-> where salary between 800000 and 1000000;

Query OK, 2 rows affected (0.11 sec)

Rows matched: 2 Changed: 2 Warnings: 0

mysql> select \*from e;

+------+---------+-------------+----------+-----------------+-------------+--------+------------+---------+

| eno | ename | designation | city | date\_of\_joining | email | salary | phoneno | address |

+------+---------+-------------+----------+-----------------+-------------+--------+------------+---------+

| 101 | Suhani | Assistant | satara | 12-12-2022 | s@gmail.com | 43050 | 1234567890 | dubai |

| 102 | Kajal | CEO | pune | 11-10-2022 | k@gmail.com | 82000 | 1234567890 | NULL |

| 104 | Nayra | HR | gujrat | 21-4-2022 | n@gmail.com | 697000 | 1234567890 | NULL |

| 105 | Angha | manager | Mumbai | 14-1-2022 | a@gmail.com | 102500 | 1234567890 | NULL |

| 106 | Priya | CEO | Kolhapur | 11-10-2012 | p@gmail.com | 697000 | 1234567890 | NULL |

| 107 | Manjali | HR | Sangli | 11-7-2022 | m@gmail.com | 205000 | 1234567890 | NULL |

| 108 | Neha | developer | pune | 19-1-2022 | n@gmail.com | 86100 | 1234567890 | NULL |

| 109 | Harshda | tester | pune | 11-12-2022 | h@gmail.com | 82000 | 1234567890 | NULL |

+------+---------+-------------+----------+-----------------+-------------+--------+------------+---------+

8 rows in set (0.00 sec)

**Q.18 Calculate & display eid,name,& annual salary of employee.(alise)**

mysql> SELECT eno,ename,salary\* 12 AS annual\_salary FROM e;

+------+---------+---------------+

| eno | ename | annual\_salary |

+------+---------+---------------+

| 101 | Suhani | 516600 |

| 102 | Kajal | 984000 |

| 104 | Nayra | 8364000 |

| 105 | Angha | 1230000 |

| 106 | Priya | 8364000 |

| 107 | Manjali | 2460000 |

| 108 | Neha | 1033200 |

| 109 | Harshda | 984000 |

+------+---------+---------------+

8 rows in set (0.04 sec)