**Nested Queries:**

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

mysql> select\*

-> from employee

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

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

| eid | ename | salary | designation | city | date |

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

| 104 | Radha More | 1200000 | UX Designer | kolhapur | -1985 |

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

1 row in set (0.00 sec)

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

mysql> alter table employee

-> add column address varchar(50);

Query OK, 0 rows affected (0.04 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc employee;

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

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

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

| eid | int | YES | | NULL | |

| ename | varchar(20) | YES | | NULL | |

| salary | int | YES | | NULL | |

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

| city | varchar(20) | YES | | NULL | |

| date | int | YES | | NULL | |

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

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

7 rows in set (0.00 sec)

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

mysql> alter table employee

-> add column email varchar(50);

Query OK, 0 rows affected (0.03 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc employee;

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

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

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

| eid | int | YES | | NULL | |

| ename | varchar(20) | YES | | NULL | |

| salary | int | YES | | NULL | |

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

| city | varchar(20) | YES | | NULL | |

| date | int | YES | | NULL | |

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

| email | varchar(50) | YES | | NULL | |

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

8 rows in set (0.00 sec)

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

mysql> update employee

-> set address='landan'

-> where eid=101;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select\* from employee;

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

| eid | ename | salary | designation | city | date | address | email |

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

| 101 | Sonal shinde | 500000 | Software Developer | pune | -1985 | landan | NULL |

| 102 | sudha patil | 800000 | Software engineer | satara | -1985 | NULL | NULL |

| 103 | Sonali pol | 1000000 | Database Administrater | satara | -1985 | NULL | NULL |

| 104 | Radha More | 1200000 | UX Designer | kolhapur | -1985 | NULL | NULL |

| 105 | Shubham Patil | 500000 | Project Manager | sangli | -1987 | NULL | NULL |

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

5 rows in set (0.00 sec)

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

mysql> select ename,city

-> from employee

-> group by ename,city;

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

| ename | city |

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

| Sonal shinde | pune |

| sudha patil | satara |

| Sonali pol | satara |

| Radha More | kolhapur |

| Shubham Patil | sangli |

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

5 rows in set (0.00 sec)

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

mysql> select sum(salary)as salary

-> from employee

-> group by ename;

+---------+

| salary |

+---------+

| 500000 |

| 800000 |

| 1000000 |

| 1200000 |

| 500000 |

+---------+

5 rows in set (0.00 sec)

**Q.7 Display AVG salary of employee of Computer department**

mysql> select avg(salary)

-> from employee

-> where eid=102;

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

| avg(salary) |

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

| 800000.0000 |

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

1 row in set (0.00 sec)

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

mysql> select\*

-> from employee

-> where designation='project manager';

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

| eid | ename | salary | designation | city | date | address | email |

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

| 105 | Shubham Patil | 500000 | Project Manager | sangli | -1987 | NULL | NULL |

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

1 row in set (0.00 sec)

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

mysql> select count(eid)

-> from employee;

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

| count(eid) |

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

| 5 |

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

1 row in set (0.00 sec)

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

mysql> delete from employee

-> where designation='project manager';

Query OK, 1 row affected (0.01 sec)

mysql> select\* from employee;

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

| eid | ename | salary | designation | city | date | address | email |

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

| 101 | Sonal shinde | 500000 | Software Developer | pune | -1985 | landan | NULL |

| 102 | sudha patil | 800000 | Software engineer | satara | -1985 | NULL | NULL |

| 103 | Sonali pol | 1000000 | Database Administrater | satara | -1985 | NULL | NULL |

| 104 | Radha More | 1200000 | UX Designer | kolhapur | -1985 | NULL | NULL |

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

4 rows in set (0.00 sec)

**Q.11 Display the name of employee whose location is”pune” and “sonal shinde” is working it.**

mysql> select ename

-> from employee

-> where city='pune' and ename='sonal shinde';

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

| ename |

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

| Sonal shinde |

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

1 row in set (0.00 sec)

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

mysql> UPDATE employee SET address = 'dubai' WHERE address = 'landan';

Query OK, 1 row affected (0.02 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select\* from employee;

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

| eid | ename | salary | designation | city | date | address | email |

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

| 101 | Sonal shinde | 500000 | Software Developer | pune | -1985 | dubai | NULL |

| 102 | sudha patil | 800000 | Software engineer | satara | -1985 | NULL | NULL |

| 103 | Sonali pol | 1000000 | Database Administrater | satara | -1985 | NULL | NULL |

| 104 | Radha More | 1200000 | UX Designer | kolhapur | -1985 | NULL | NULL |

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

4 rows in set (0.00 sec)

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

mysql> select min(salary)

-> from employee;

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

| min(salary) |

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

| 500000 |

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

1 row in set (0.01 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 employee SET salary = salary \* 1.05 WHERE ename LIKE 'S%l' AND city IN ('Pune','Satara');

Query OK, 2 rows affected (0.01 sec)

Rows matched: 2 Changed: 2 Warnings: 0

mysql> select\* from employee;

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

| eid | ename | salary | designation | city | date | address | email |

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

| 101 | Sonal shinde | 500000 | Software Developer | pune | -1985 | dubai | NULL |

| 102 | sudha patil | 840000 | Software engineer | satara | -1985 | NULL | NULL |

| 103 | Sonali pol | 1050000 | Database Administrater | satara | -1985 | NULL | NULL |

| 104 | Radha More | 1200000 | UX Designer | kolhapur | -1985 | NULL | NULL |

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

4 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 employee WHERE (city = 'pune' OR city = 'satara')AND (ename LIKE '%s%' OR ename LIKE '%s%')AND salary = (SELECT MIN(salary) FROM employee WHERE city IN ('pune', 'satara'));

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

| eid | ename | salary | designation | city | date | address | email |

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

| 101 | Sonal shinde | 500000 | Software Developer | pune | -1985 | dubai | NULL |

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

1 row in set (0.01 sec)

**Q.16 Display the employee details city wise whose salary is greater than 5000.**

mysql> SELECT city, MAX(salary) as max\_salary FROM employee GROUP BY city HAVING MAX(salary) > 500000;

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

| city | max\_salary |

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

| satara | 1050000 |

| kolhapur | 1200000 |

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

2 rows in set (0.00 sec)

OR

mysql> SELECT DISTINCT city FROM employee WHERE salary > 500000;

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

| city |

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

| satara |

| kolhapur |

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

2 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 employee WHERE city = 'kolhapur' AND salary < 12000000 ORDER BY salary DESC LIMIT 1;

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

| eid | ename | salary | designation | city | date | address | email |

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

| 104 | Radha More | 1200000 | UX Designer | kolhapur | -1985 | NULL | NULL |

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

1 row in set (0.00 sec)

Record 1 added:

mysql> SELECT \* FROM employee WHERE city = 'satara' AND salary < 12000000 ORDER BY salary DESC LIMIT 2;

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

| eid | ename | salary | designation | city | date | address | email |

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

| 103 | Sonali pol | 1050000 | Database Administrater | satara | -1985 | NULL | NULL |

| 102 | sudha patil | 840000 | Software engineer | satara | -1985 | NULL | NULL |

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

2 rows 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 employee

-> set salary= salary\*0.85

-> where salary between 800000 and 1000000;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select\* from employee;

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

| eid | ename | salary | designation | city | date | address | email |

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

| 101 | Sonal shinde | 500000 | Software Developer | pune | -1985 | dubai | NULL |

| 102 | sudha patil | 714000 | Software engineer | satara | -1985 | NULL | NULL |

| 103 | Sonali pol | 1050000 | Database Administrater | satara | -1985 | NULL | NULL |

| 104 | Radha More | 1200000 | UX Designer | kolhapur | -1985 | NULL | NULL |

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

4 rows in set (0.00 sec)

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

mysql> SELECT eid, ename, salary \* 12 AS annual\_salary FROM employee;

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

| eid | ename | annual\_salary |

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

| 101 | Sonal shinde | 6000000 |

| 102 | sudha patil | 8568000 |

| 103 | Sonali pol | 12600000 |

| 104 | Radha More | 14400000 |

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

4 rows in set (0.00 sec)