Joins, Union, Subquery,Sequence

\*\*\*\*\*\*\*\*\*\*\*\*joins\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. select dept\_name and emp\_name where dept\_id is same.

mysql> select empname, dname from emp join dept on emp.deptno=dept.deptno;

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

| empname | dname |

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

| Sudhakar | SENG |

| Amit | SENG |

| Supriya | ITSS |

| Mahesh | CNIE |

| Subhangi | ITSS |

| Pradnya | ITSS |

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

6 rows in set (0.00 sec)

-------------------------------------------------------------------------

2. select all from both tables where dept\_id is same.

mysql> select \*from emp join dept on emp.deptno=dept.deptno;

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

| empno | empname | job | mgr | hiredate | sal | deptno | deptno | dname | loc |

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

| 101 | Sudhakar | PTO | 1001 | 2006-11-01 | 50000 | 10 | 10 | SENG | JUHU |

| 102 | Amit | PE | NULL | 2012-11-01 | 40000 | 10 | 10 | SENG | JUHU |

| 103 | Supriya | PE | 1001 | 2016-02-10 | 40000 | 20 | 20 | ITSS | JUHU |

| 104 | Mahesh | TO | 1001 | 2008-05-01 | 32000 | 30 | 30 | CNIE | JUHU |

| 105 | Subhangi | PTO | NULL | 2017-01-01 | 40000 | 20 | 20 | ITSS | JUHU |

| 106 | Pradnya | PE | NULL | 2015-06-16 | 30000 | 20 | 20 | ITSS | JUHU |

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

3. select dept\_id and sum of salary group it by dept\_id.

mysql> select emp.deptno,sum(sal) from emp group by deptno ;

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

| deptno | sum(sal) |

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

| 10 | 90000 |

| 20 | 110000 |

| 30 | 32000 |

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

4. select dept\_name and emp\_name apply right outer join and left outer join.

mysql> select empname, dname from emp right join dept on emp.deptno=dept.deptno ;

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

| empname | dname |

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

| Sudhakar | SENG |

| Amit | SENG |

| Supriya | ITSS |

| Mahesh | CNIE |

| Subhangi | ITSS |

| Pradnya | ITSS |

| NULL | ETU |

| NULL | Networking |

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

8 rows in set (0.00 sec)

mysql> select empname, dname from emp left join dept on emp.deptno=dept.deptno ;

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

| empname | dname |

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

| Sudhakar | SENG |

| Amit | SENG |

| Supriya | ITSS |

| Subhangi | ITSS |

| Pradnya | ITSS |

| Mahesh | CNIE |

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

6 rows in set (0.00 sec)

5. select emp\_name with their respective manager names.

6. select epm\_name with their respective department names.

mysql> select empname,dname from emp join dept on emp.deptno=dept.deptno;

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

| empname | dname |

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

| Sudhakar | SENG |

| Amit | SENG |

| Supriya | ITSS |

| Mahesh | CNIE |

| Subhangi | ITSS |

| Pradnya | ITSS |

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

\*\*\*\*\*\*\*\*\*\*\*\*\*union\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Emp1 Emp2

emp\_no emp\_name emp\_no emp\_name

--------------------- ------------------------

1 A 1 A

2 B 2 B

3 C 4 D

5 E

* select same data from both table.

\*\*\*\*\*\*\*\*\*\*\*\*subQuery\*\*\*\*\*\*\*\*\*\*\*\*\*

1. select employee having same salary as 'Arun'.

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

| empno | empname | job | mgr | hiredate | sal | deptno |

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

| 101 | Sudhakar | PTO | 1001 | 2006-11-01 | 50000 | 10 |

| 102 | Amit | PE | NULL | 2012-11-01 | 40000 | 10 |

| 103 | Supriya | PE | 1001 | 2016-02-10 | 40000 | 20 |

| 104 | Mahesh | TO | 1001 | 2008-05-01 | 32000 | 30 |

| 105 | Subhangi | PTO | NULL | 2017-01-01 | 40000 | 20 |

| 106 | Pradnya | PE | NULL | 2015-06-16 | 30000 | 20 |

| 1001 | Rajat | NULL | NULL | NULL | 90000 | NULL |

| 1002 | Shubham | PE | 101 | NULL | 46000 | 10 |

| 1015 | Shubham | PTO | 1001 | NULL | 96000 | 60 |

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

9 rows in set (0.00 sec)

mysql> select sal from emp where empno=102;

+-------+

| sal |

+-------+

| 40000 |

+-------+

1 row in set (0.00 sec)

mysql> select empname, sal from emp where sal =(select sal from emp where empno=102);

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

| empname | sal |

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

| Amit | 40000 |

| Supriya | 40000 |

| Subhangi | 40000 |

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

3 rows in set (0.06 sec)

mysql>

2. select employee belonging to same dept as 'jack'.

3. select name of employee having lowest salary.

mysql> select empname from emp where sal=(select min(sal) from emp);

+---------+

| empname |

+---------+

| Pradnya |

+---------+

1 row in set (0.01 sec)

mysql> select empname, sal from emp where sal=(select min(sal) from emp);

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

| empname | sal |

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

| Pradnya | 30000 |

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

1 row in set (0.00 sec)

4. update salary =15000 of employees belonging to same dept as 'Max'.

mysql> select deptno from dept where dname='ITSS';

+--------+

| deptno |

+--------+

| 20 |

+--------+

1 row in set (0.01 sec)

mysql> update emp set sal=15000 where deptno=(select deptno from dept where dname='ITSS');

Query OK, 3 rows affected (0.27 sec)

Rows matched: 3 Changed: 3 Warnings: 0

mysql> select \*from emp;

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

| empno | empname | job | mgr | hiredate | sal | deptno |

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

| 101 | Sudhakar | PTO | 1001 | 2006-11-01 | 50000 | 10 |

| 102 | Amit | PE | NULL | 2012-11-01 | 40000 | 10 |

| 103 | Supriya | PE | 1001 | 2016-02-10 | 15000 | 20 |

| 104 | Mahesh | TO | 1001 | 2008-05-01 | 32000 | 30 |

| 105 | Subhangi | PTO | NULL | 2017-01-01 | 15000 | 20 |

| 106 | Pradnya | PE | NULL | 2015-06-16 | 15000 | 20 |

| 1001 | Rajat | NULL | NULL | NULL | 90000 | NULL |

| 1002 | Shubham | PE | 101 | NULL | 46000 | 10 |

| 1015 | Shubham | PTO | 1001 | NULL | 96000 | 60 |

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

9 rows in set (0.00 sec)

mysql>