**Ex.No : 12**

**Sql statement with exists,any,all**

**Questions**

1.find the courses which have taken by students

mysql> select \* from course;

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

| course\_no | course\_desc | course\_type | sem\_no | hall\_no | fac\_no | score |

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

| C001 | dbms | c | 5 | 303 | 1235 | 79 |

| C002 | java | a | 6 | 623 | 1231 | 60 |

| C005 | statistics | e | 4 | 111 | 1234 | 52 |

| C010 | python | b | 5 | null | 1232 | 49 |

| C011 | python | b | 5 | 332 | 1233 | 49 |

| C101 | programming | d | 3 | 332 | 1233 | 90 |

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

6 rows in set (0.00 sec)

mysql> select \* from student;

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

| reg\_no | name | gender | dob | mobile\_no | city | course\_no | score |

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

| 191711222 | keerthi | f | 2001-01-17 | 9234156789 | salempur | C011 | 45 |

| 191711306 | vasantha | f | 2005-02-22 | 9879871012 | salem | C002 | 75 |

| 191711342 | varshan | m | 2004-04-03 | 1234567899 | bangalore | C001 | 65 |

| 192211012 | ram | m | 2002-10-05 | 9508067891 | chennai | C010 | 35 |

| 192211013 | sameera | f | 2003-11-09 | 9087654321 | chennai | C001 | 79 |

| 192211016 | reshma | f | 2001-07-11 | 9585756545 | delhi | C010 | 59 |

| 192211021 | raama | m | 2000-12-12 | 8797675727 | jaipur | C011 | 77 |

| 197123458 | gans | m | 1997-08-09 | 8957612345 | trichy | C001 | 67 |

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

8 rows in set (0.00 sec)

mysql> select course\_no from course where exists(select reg\_no from student where course.course\_no=student.course\_no);

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

| course\_no |

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

| C001 |

| C002 |

| C010 |

| C011 |

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

4 rows in set (0.00 sec)

2.Find the faculties to whom courses are assigned.

mysql> select \* from faculty;

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

| fac\_no | fac\_name | gender | dob | doj | mobile\_number | dept\_no | job\_resigned | salary |

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

| 1231 | ram | m | 1983-05-01 | 2004-10-20 | 1357986420 | d1 | no | 35000 |

| 1232 | renu | f | 1986-10-05 | 2006-04-30 | 1367976420 | d2 | no | 30000 |

| 1234 | getha | f | 1990-10-28 | 2014-11-11 | 1897654321 | d1 | no | 45000 |

| 1236 | priya | f | 1978-01-18 | 2018-07-01 | 1776689897 | d3 | no | 55000 |

| 1238 | dhinesh | m | 1988-09-21 | 2015-06-03 | 1976789992 | d2 | no | 25000 |

| 1239 | karthi | m | 1972-09-27 | 2010-04-06 | 1234567891 | d3 | no | NULL |

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

6 rows in set (0.00 sec)

mysql> select \* from course;

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

| course\_no | course\_desc | course\_type | sem\_no | hall\_no | fac\_no | score |

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

| C001 | dbms | c | 5 | 303 | 1235 | 79 |

| C002 | java | a | 6 | 623 | 1231 | 60 |

| C005 | statistics | e | 4 | 111 | 1234 | 52 |

| C010 | python | b | 5 | null | 1232 | 49 |

| C011 | python | b | 5 | 332 | 1233 | 49 |

| C101 | programming | d | 3 | 332 | 1233 | 90 |

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

6 rows in set (0.00 sec)

mysql> select fac\_no from faculty where fac\_no = any(select fac\_no from course);

+--------+

| fac\_no |

+--------+

| 1231 |

| 1234 |

| 1232 |

+--------+

3 rows in set (0.00 sec)

3.Find the d1 dept employees whose salary is greater than all the d2 dept employees salaries.

mysql> select \* from faculty;

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

| fac\_no | fac\_name | gender | dob | doj | mobile\_number | dept\_no | job\_resigned | salary |

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

| 1231 | ram | m | 1983-05-01 | 2004-10-20 | 1357986420 | d1 | no | 35000 |

| 1232 | renu | f | 1986-10-05 | 2006-04-30 | 1367976420 | d2 | no | 30000 |

| 1234 | getha | f | 1990-10-28 | 2014-11-11 | 1897654321 | d1 | no | 45000 |

| 1236 | priya | f | 1978-01-18 | 2018-07-01 | 1776689897 | d3 | no | 55000 |

| 1238 | dhinesh | m | 1988-09-21 | 2015-06-03 | 1976789992 | d2 | no | 25000 |

| 1239 | karthi | m | 1972-09-27 | 2010-04-06 | 1234567891 | d3 | no | NULL |

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

6 rows in set (0.00 sec)

mysql> select fac\_no from faculty where salary>all (select salary from faculty where dept\_no='d2');

+--------+

| fac\_no |

+--------+

| 1231 |

| 1234 |

| 1236 |

| 1239 |

+--------+

4 rows in set (0.00 sec)