**Ex.No : 12**

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

**Questions**

Find the courses which have taken by students

**OUTPUTS**

mysql> select \* from course;

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

| courseno | coursedesc | coursetype | semno | hallno | facno |

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

| c1       | dbms       | c          | 2     | 3      | f1    |

| c2       | ds         | c          | 1     | 4      | f2    |

| c3       | networks   | c          | 3     | 5      | f3    |

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

3 rows in set (0.00 sec)

mysql> select \* from student;

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

| regno | name  | gender | dob        | mobileno   | city      | courseno |

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

|   123 | bino  | m      | 2022-09-08 | 1234567891 | chennai   | c1       |

|   124 | ram   | m      | 2004-09-08 | 1231231231 | bangalore | c1       |

|   125 | nisha | f      | 2008-09-18 | 1131231231 | hyderabad | c2       |

|   191 | ganga | f      | 2002-02-22 | 1423123423 | cochin    | c2       |

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

4 rows in set (0.00 sec)

mysql> select courseno from course where exists(select regno from student where course.courseno=student.courseno);

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

| courseno |

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

| c1       |

| c2       |

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

1. rows in set (0.04 sec)

2.Find the Faculties to whom courses are assigned

 mysql> select \* from faculty;

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

| facno | facname | gender | dob        | doj        | mobileno   | deptno |

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

| f1    | kavya   | f      | 2003-12-12 | 2022-06-07 | 1233214566 | d1     |

| f2    | kamu    | m      | 1997-08-07 | 2021-03-04 |  222345521 | d2     |

| f3    | murugan | m      | 1998-07-07 | 2020-09-08 | 1223234445 | d1     |

| f4    | kannan  | m      | 2001-10-01 | 2022-06-07 | 1233214563 | d2     |

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

4 rows in set (0.00 sec)

mysql> select \* from course;

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

| courseno | coursedesc | coursetype | semno | hallno | facno |

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

| c1       | dbms       | c          | 2     | 3      | f1    |

| c2       | ds         | c          | 1     | 4      | f2    |

| c3       | networks   | c          | 3     | 5      | f3    |

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

3 rows in set (0.00 sec)

mysql> select facno from faculty where facno =any(select facno from course);

+-------+

| facno |

+-------+

| f1    |

| f3    |

| f2    |

+-------+

3 rows in set (0.10 sec)

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

mysql> select \* from faculty;

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

| facno | facname | gender | dob        | doj        | mobileno   | deptno | salary |

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

| f1    | kavya   | f      | 2003-12-12 | 2022-06-07 | 9841278965 | d1     |  99000 |

| f2    | kamu    | m      | 1997-08-07 | 2021-03-04 | 9842732965 | d2     |  56789 |

| f3    | murugan | m      | 1998-07-07 | 2020-09-08 | 8842732965 | d1     |  13000 |

| f4    | kannan  | m      | 2001-10-01 | 2012-09-09 | 7842732965 | d2     |  67000 |

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

4 rows in set (0.00 sec)

mysql> select facno from faculty where salary >all (select salary from faculty where deptno='d2');

+-------+

| facno |

+-------+

| f1    |

+-------+

1 row in set (0.00 sec)