**Ex.No 4 SELECT with various clause – WHERE, pattern matching**

**Questions:**

1.The student counsellor wanted to display the registration number, student name and date of birth for all the students.

mysql> select reg\_no,name,dob from student;

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

| reg\_no | name | dob |

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

| 191711222 | keerthi | 2001-01-17 |

| 191711306 | vasantha | 2005-02-22 |

| 191711342 | varshan | 2004-04-03 |

| 192211012 | ram | 2002-10-05 |

| 192211013 | sameera | 2003-11-09 |

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

5 rows in set (0.00 sec)

2.The controller of examinations wanted to list all the female students

mysql> insert into student values(191711306,'vasantha','f','2005-02-22',9879871012,'salem','C002');

Query OK, 1 row affected (0.00 sec)

mysql> insert into student values(191711222,'keerthi','f','2001-01-17',9234156789,'salempur','C011');

Query OK, 1 row affected (0.03 sec)

mysql> select \* from student;

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

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

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

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

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

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

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

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

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

5 rows in set (0.00 sec)

mysql> select \* from student where gender='f';

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

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

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

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

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

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

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

3 rows in set (0.00 sec)

3.Who are the boy students registered for course with the course number “C001“

mysql> alter table student add course\_no varchar(4);

Query OK, 3 rows affected (0.03 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> update student set course\_no='C001' where name='varshan';

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> update student set course\_no='C001' where name='sameera';

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> update student set course\_no='C010' where name='ram';

Query OK, 1 row affected (0.05 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> alter table student add foreign key(course\_no) references course(course\_no);

Query OK, 3 rows affected (0.03 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> select \* from student;

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

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

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

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

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

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

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

3 rows in set (0.00 sec)

mysql> select \* from student where course\_no='C001';

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

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

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

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

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

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

2 rows in set (0.04 sec)

4.Display all faculty details joined before “November 2014”

mysql> select \* from faculty;

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

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

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

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

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

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

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

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

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

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

6 rows in set (0.00 sec)

mysql> select \* from faculty where doj<'2014-01-01';

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

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

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

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

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

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

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

3 rows in set (0.00 sec)

5.Display all the courses not allotted to halls

mysql> select \* from course where hall\_no='null';

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

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

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

| C010 | rprog | b | 5 | null | 1232 |

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

1 row in set (0.00 sec)

6.List the students whose name ends with the substring “ma”

mysql> select \* from student where name like '%ma';

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

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

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

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

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

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

2 rows in set (0.00 sec)

7.Display all students whose name contains the substring “ma”

mysql> select \* from student where name like'%ma%';

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

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

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

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

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

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

2 rows in set (0.00 sec)

8.Find all the students who are located in cities having “Sal” as substring

mysql> select \* from student where city like'sal%';

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

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

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

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

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

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

2 rows in set (0.00 sec)

9.Display the students whose names do not contain six letters.

mysql> select name from student where length(name)<6;

+-------+

| name |

+-------+

| ram |

| raama |

+-------+

2 rows in set (0.00 sec)

10.Find all the students whose names contains “th”

mysql> select \* from student where name like'%th%';

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

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

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

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

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

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

2 rows in set (0.00 sec)