**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 regno,name,dob from student;

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

| regno | name  | dob        |

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

|   123 | bino  | 2022-09-08 |

|   124 | ram   | 2004-09-08 |

|   125 | nisha | 2008-09-18 |

|   191 | ganga | 2002-02-22 |

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

4 rows in set (0.00 sec)

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

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

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

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

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

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

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

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

2 rows in set (0.04 sec)

3.Who are the boy students registered for course with the course number “C1“

mysql> select \* from student where gender='m' and courseno='c1';

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

| 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       |

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

2 rows in set (0.00 sec)

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

mysql> select facno from faculty where (extract(year\_month from doj)<extract(year\_month from '2014-11-01'));

+-------+

| facno |

+-------+

| f4    |

+-------+

1 row in set (0.00 sec)

mysql> select \* from faculty;

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

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

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

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

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

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

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

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

4 rows in set (0.00 sec)

5.Display all the courses not allotted to halls

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    |

| c4       | r programming | c          | 1     | NULL   | f2    |

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

4 rows in set (0.00 sec)

mysql> select courseno from course where hallno is null;

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

| courseno |

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

| c4       |

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

1 row in set (0.00 sec)

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

mysql> select \* from student;

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

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

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

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

|   124 | reshma | 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 regno from student where name like '%ma';

+-------+

| regno |

+-------+

|   124 |

+-------+

1 row in set (0.07 sec)

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

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

+-------+

| regno |

+-------+

|   123 |

|   124 |

+-------+

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;

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

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

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

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

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

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

|   191 | sathish | f      | 2002-02-22 | 1423123423 | salem     | c2       |

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

4 rows in set (0.00 sec)

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

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

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

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

|   191 | sathish | f      | 2002-02-22 | 1423123423 | salem | c2       |

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

1 row in set (0.00 sec)

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

mysql> select \* from student where name not like '\_\_\_\_\_\_';

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

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

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

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

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

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

2 rows in set (0.04 sec)

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

mysql> select \* from student;

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

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

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

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

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

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

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

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

4 rows in set (0.00 sec)

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

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

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

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

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

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

1 row in set (0.00 sec)