**Ex. No. : 5**

**SELECT with various clause – BETWEEN, IN, Aggregate function**

**Questions:**

**QUESTIONS:**

**IN & B ETWEEN**

1. List the type of the courses “Statistics” and “Programming”

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 course where course\_desc in('statistics','programming');

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

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

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

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

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

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

2 rows in set (0.01 sec)

1. The instructor wants to know the CourseNos whose scores are in the range 50

to 80

mysql> select course\_no from student where score between 50 and 80;

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

| course\_no |

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

| C002 |

| C001 |

| C001 |

| C010 |

| C011 |

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

**AGGREGATE**

1.Find the average mark of “C002”.

mysql> select course\_no,avg(score) from student where course\_no='C002' group by course\_no;

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

| course\_no | avg(score) |

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

| C002 | 75.0000 |

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

1 row in set (0.00 sec)

2.List the maximum, minimum mark for “C021”

mysql> select course\_no,min(score),max(score) from student group by course\_no;

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

| course\_no | min(score) | max(score) |

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

| C001 | 65 | 79 |

| C002 | 75 | 75 |

| C010 | 35 | 59 |

| C011 | 45 | 77 |

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

4 rows in set (0.05 sec)

3.List the no of faculties in each department.

mysql> select dept\_no,count(\*) from faculty group by dept\_no;

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

| dept\_no | count(\*) |

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

| d1 | 2 |

| d2 | 2 |

| d3 | 2 |

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

3 rows in set (0.00 sec)

4.List the name of the courses and average mark of each courses.

mysql> select course\_no,avg(score) from student group by course\_no;

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

| course\_no | avg(score) |

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

| C001 | 70.3333 |

| C002 | 75.0000 |

| C010 | 47.0000 |

| C011 | 61.0000 |

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

4 rows in set (0.00 sec)

5.Calculate the sum of all the scores.

mysql> select sum(score) from student;

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

| sum(score) |

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

| 502 |

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

1 row in set (0.00 sec)

6.How many students are registered for each course? Display the

course description and the number of students registered in each course.

mysql> select course\_no,count(\*) from student group by course\_no;

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

| course\_no | count(\*) |

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

| C001 | 3 |

| C002 | 1 |

| C010 | 2 |

| C011 | 2 |

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

4 rows in set (0.00 sec)

7.display the sum of salaries in each department.

mysql> select dept\_no,sum(salary) from faculty group by dept\_no;

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

| dept\_no | sum(salary) |

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

| d1 | 80000 |

| d2 | 55000 |

| d3 | 115000 |

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

3 rows in set (0.00 sec)