**Ex. No. : 5**

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

**Questions:**

**QUESTIONS:**

**IN & B ETWEEN**

1. List the type of the courses “DBMS” and “DS”

mysql> select \* from course where course\_desc in('dbms','ds');

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

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

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

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

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

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

2 rows in set (0.10 sec)

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

to 80

mysql> select \* from student;

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

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

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

| 192125114 | aashrita | f | 2004-06-29 | 8374170743 | vizag | 95 |

| 192110258 | kalyan | m | 2001-10-08 | 6305966742 | kurnool | 95 |

| 192122001 | Reeya | f | 2004-07-28 | 9866460996 | delhi | 45 |

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

3 rows in set (0.00 sec)

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

Empty set (0.00 sec)

**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 | 95.0000 |

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

1 row in set (0.06 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 | 95 | 95 |

| C002 | 95 | 95 |

| C003 | 45 | 45 |

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

3 rows in set (0.08 sec)

3.List the number of faculties in each department.

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

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

| dept\_no | count(\*) |

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

| d1 | 2 |

| d2 | 1 |

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

2 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 | 95.0000 |

| C002 | 95.0000 |

| C003 | 45.0000 |

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

3 rows in set (0.00 sec)

5.Calculate the sum of all the scores.

mysql> select sum(score) from student;

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

| sum(score) |

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

| 235 |

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

1 row in set (0.09 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 | 1 |

| C002 | 1 |

| C003 | 1 |

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

3 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 | 12987 |

| d2 | 56789 |

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

2 rows in set (0.00 sec)