

Ex. No. : 5

SELECT with various clause – BETWEEN, IN, Aggregate function

Questions:

QUESTIONS:

IN & BETWEEN

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

```
mysql> select coursedesc,coursetype from course where coursedesc in('dbms','se');
+-----+-----+
| coursedesc | coursetype |
+-----+-----+
| dbms      | m         |
| se        | m         |
+-----+-----+
2 rows in set (0.01 sec)

mysql>
```

2. The instructor wants to know the CourseNos whose scores are in the range 50 to 80

```
mysql> select courseno from student where score between 50 and 80;
+-----+
| courseno |
+-----+
| cs1      |
| cs1      |
+-----+
2 rows in set (0.00 sec)
```

AGGREGATE

1. Find the average mark of “Cs2”.

```
mysql> select courseno,avg(score) from student where courseno='cs2' group by courseno;
+-----+-----+
| courseno | avg(score) |
+-----+-----+
| cs2      | 95.0000    |
+-----+-----+
1 row in set (0.00 sec)
```

2. List the maximum, minimum mark for courses

```
mysql> select courseno,min(score),max(score) from student group by courseno;
+-----+-----+-----+
| courseno | min(score) | max(score) |
+-----+-----+-----+
| cs1      | 65         | 75         |
| cs2      | 95         | 95         |
+-----+-----+-----+
2 rows in set (0.00 sec)
```

3. List the no of faculties in each department

```
mysql> select deptno,count(*) from faculty group by deptno;
+-----+-----+
| deptno | count(*) |
+-----+-----+
| 10     | 1        |
+-----+-----+
1 row in set (0.00 sec)
```

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

```
mysql> select courseno, avg(score) from student group by courseno;
```

courseno	avg(score)
cs1	70.0000
cs2	95.0000

```
2 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 (0.00 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 courseno, count(*) from student group by courseno;
```

courseno	count(*)
cs1	2
cs2	1

```
2 rows in set (0.00 sec)
```

7. Display the sum of salaries in each department.

```
mysql> select deptno, sum(salary) from faculty group by deptno;
```

deptno	sum(salary)
10	100000

```
1 row in set (0.00 sec)
```