**NAME: Maddi sai Manjunatha**

**REGNO:** 192111458

**COURSE CODE:** CSA0517

**DATABASE MANAGEMENT SYSTEMS**

**LAB ACTIVITY-5,6**

**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”**

**CODE:**

mysql> insert into course values('c2','dbms','c','2','3','f2');

Query OK, 1 row affected (0.03 sec)

mysql> insert into course values('c3','ds','c','1','4','f3');

Query OK, 1 row affected (0.01 sec)

mysql> insert into course values('c4','networks','c','3','5','f4');

Query OK, 1 row affected (0.00 sec)

mysql> select coursedesc, coursetype from course where coursedesc = 'dbms' or coursedesc = 'ds';

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

| coursedesc | coursetype |

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

| dbms | c |

| ds | c |

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

2 rows in set (0.00 sec)

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

**to 80**

**CODE:**

mysql> select \* from student;

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

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

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

| 123 | mahesh | m | 2004-06-23 | 1923456778 | vijayawada | c1 | 95 |

| 132 | manju | m | 2003-08-23 | 1246657654 | cpeta | c2 | 65 |

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

2 rows in set (0.00 sec)

mysql> select courseno from student where score between 50 and 80;

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

| courseno |

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

| c2 |

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

1 row in set (0.01 sec)

**AGGREGATE**

1. **Find the average mark of “C2”.**

**CODE:**

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

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

| courseno | avg(score) |

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

| c1 | 95.0000 |

| c2 | 65.0000 |

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

2 rows in set (0.00 sec)

1. **List the maximum, minimum mark for “C1”**

**CODE:**

mysql> select courseno, min(score), max(score) from student group by courseno;

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

| courseno | min(score) | max(score) |

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

| c1 | 49 | 99 |

| c2 | 59 | 65 |

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

2 rows in set (0.01 sec)

1. **List the number of faculties in each department.**

**CODE:**

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

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

| deptno | count(\*) |

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

| d1 | 2 |

| d2 | 2 |

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

2 rows in set (0.00 sec)

1. **List the name of the courses and average mark of each courses.**

**CODE:**

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

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

| courseno | avg(score) |

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

| c1 | 81.0000 |

| c2 | 62.0000 |

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

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

1. **Calculate the sum of all the scores.**

**CODE:**

mysql> select sum(score) from student;

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

| sum(score) |

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

| 367 |

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

1 row in set (0.00 sec)

1. **How many students are registered for each course.**

**CODE:**

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

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

| courseno | count(\*) |

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

| c1 | 3 |

| c2 | 2 |

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

2 rows in set (0.00 sec)

1. **Display the sum of salaries in each department.**

**CODE:**

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

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

| deptno | sum(salary) |

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

| d1 | 12576 |

| d2 | 146687 |

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

2 rows in set (0.01 sec)

**Ex.No : 6**

**SELECT with various clause – GROUP BY, HAVING, ORDER BY**

**Questions**:

**GROUP BY - HAVING**

1. **Display the course courseno and the number of students registered in each course. if no of students registered is >1**

**CODE:**

mysql> select courseno, count(\*) from student group by courseno having count(\*)>1;

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

| courseno | count(\*) |

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

| c1 | 3 |

| c2 | 2 |

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

2 rows in set (0.02 sec)

1. **Display the facno whose department is getting average salary greater than 25000.**

**CODE:**

mysql> select facno from faculty group by deptno having avg(salary)>25000;

+-------+

| facno |

+-------+

| f2 |

+-------+

1 row in set (0.00 sec)

**ORDER BY**

1. **Retrieve Name, Gender, MobileNo of all the students in ascending order of RegNo.**

**CODE:**

mysql> select name,gender,mobileno from student order by regno;

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

| name | gender | mobileno |

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

| mahesh | m | 1923456778 |

| manju | m | 1246657654 |

| babu | m | 1923456789 |

| kajal | f | 1923456729 |

| balaji | m | 1923452129 |

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

5 rows in set (0.00 sec)

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1. **List the faculty members in the order of older faculty first.**

**CODE:**

mysql> select facno from faculty order by dob desc;

+-------+

| facno |

+-------+

| f1 |

| f3 |

| f2 |

| f4 |

+-------+

4 rows in set (0.00 sec)