

```

MySQL 8.0 Command Line Client - Unicode
+----+-----+-----+
| C021 | programming | 60 |
| C004 | statistics  | 70 |
| C005 | programming | 80 |
+----+-----+-----+
4 rows in set (0.00 sec)

mysql> delete from course where CourseNo='C004';
Query OK, 1 row affected (0.01 sec)

mysql> delete from course where CourseNo='C005';
Query OK, 1 row affected (0.01 sec)

mysql> select * from course;
+----+-----+-----+
| courseNo | courseName | scores |
+----+-----+-----+
| C002      | statistics  | 50     |
| C021      | programming | 60     |
+----+-----+-----+
2 rows in set (0.00 sec)

mysql> insert into course(courseNo,courseName,scores)values('C002','statistics',
70),('C021','programming',75),('C002','statistics',78),('C021','programming',7
6);
Query OK, 4 rows affected (0.00 sec)
Records: 4  Duplicates: 0  Warnings: 0

mysql> select * from course;
+----+-----+-----+
| courseNo | courseName | scores |
+----+-----+-----+
| C002      | statistics  | 50     |
| C021      | programming | 60     |
| C002      | statistics  | 70     |
| C021      | programming | 75     |
| C002      | statistics  | 78     |
| C021      | programming | 76     |
+----+-----+-----+
6 rows in set (0.00 sec)

mysql> select avg(scores) from course where courseNo like 'C002';
+-----+
| avg(scores) |
+-----+
| 66.0000    |
+-----+
1 row in set (0.00 sec)

mysql>

```

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IN & BETWEEN

- List the type of the courses "Statistics" and "Programming"

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

AGGREGATE

- Find the average mark of "C002".
- List the maximum, minimum mark for "C021"
- List the maximum, minimum, average mark for each subject in 5th semester
- List the name of the courses and average mark of each courses.
- Calculate the sum of all the scores.
- How many students are registered for each course? Display the course description and the number of students registered in each course.
- How many courses did each student register for? Use Assessment table.

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```
MySQL 8.0 Command Line Client - Unicode

mysql> delete from course where CourseNo='C005';
Query OK, 1 row affected (0.01 sec)

mysql> select * from course;
+-----+-----+-----+
| courseNo | courseName | scores |
+-----+-----+-----+
| C002     | statistics | 50     |
| C021     | programming | 60     |
+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> insert into course(courseNo,courseName,scores)values('C002','statistics',70),('C021','programming',75),('C002','statistics',78),('C021','programming',76);
Query OK, 4 rows affected (0.00 sec)
Records: 4  Duplicates: 0  Warnings: 0

mysql> select * from course;
+-----+-----+-----+
| courseNo | courseName | scores |
+-----+-----+-----+
| C002     | statistics | 50     |
| C021     | programming | 60     |
| C002     | statistics | 70     |
| C021     | programming | 75     |
| C002     | statistics | 78     |
| C021     | programming | 76     |
+-----+-----+-----+
6 rows in set (0.00 sec)

mysql> select avg(scores) from course where courseNo like 'C002';
+-----+
| avg(scores) |
+-----+
| 66.0000     |
+-----+
1 row in set (0.00 sec)

mysql> select max(scores),min(scores) from course;
+-----+-----+
| max(scores) | min(scores) |
+-----+-----+
| 78          | 50          |
+-----+-----+
1 row in set (0.01 sec)

mysql>
```

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IN & BETWEEN

1. List the type of the courses "Statistics" and "Programming"
2. The instructor wants to know the CourseNos whose scores are in the range 50 to 80

AGGREGATE

1. Find the average mark of "C002".
2. List the maximum, minimum mark for "C021"
3. List the maximum, minimum, average mark for each subject in 5th semester
4. List the name of the courses and average mark of each courses.
5. Calculate the sum of all the scores.
6. How many students are registered for each course? Display the course description and the number of students registered in each course.
7. How many courses did each student register for? Use Assessment table.

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```

MySQL 8.0 Command Line Client - Unicode
+----+-----+-----+
| C002 | statistics | 50 |
| C021 | programming | 60 |
+----+-----+-----+
2 rows in set (0.00 sec)

mysql> insert into course(courseNo,courseName,scores)values('C002','statistics',70),('C021','programming',75),('C002','statistics',78),('C021','programming',76);
Query OK, 4 rows affected (0.00 sec)
Records: 4 Duplicates: 0 Warnings: 0

mysql> select * from course;
+----+-----+-----+
| courseNo | courseName | scores |
+----+-----+-----+
| C002 | statistics | 50 |
| C021 | programming | 60 |
| C002 | statistics | 70 |
| C021 | programming | 75 |
| C002 | statistics | 78 |
| C021 | programming | 76 |
+----+-----+-----+
6 rows in set (0.00 sec)

mysql> select avg(scores) from course where courseNo like 'C002';
+-----+
| avg(scores) |
+-----+
| 66.0000 |
+-----+
1 row in set (0.00 sec)

mysql> select max(scores),min(scores) from course;
+-----+-----+
| max(scores) | min(scores) |
+-----+-----+
| 78 | 50 |
+-----+-----+
1 row in set (0.01 sec)

mysql> select max(scores),min(scores),avg(scores) from course;
+-----+-----+-----+
| max(scores) | min(scores) | avg(scores) |
+-----+-----+-----+
| 78 | 50 | 68.1667 |
+-----+-----+-----+
1 row in set (0.00 sec)

mysql>

```

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ENG IN 10:26 06-05-2023

```
Select MySQL 8.0 Command Line Client - Unicode
+----+-----+-----+
| C002 | statistics | 78 |
| C021 | programming | 76 |
+----+-----+-----+
6 rows in set (0.00 sec)

mysql> select avg(scores) from course where courseNo like 'C002';
+-----+
| avg(scores) |
+-----+
| 66.0000 |
+-----+
1 row in set (0.00 sec)

mysql> select max(scores),min(scores) from course;
+-----+-----+
| max(scores) | min(scores) |
+-----+-----+
| 78 | 50 |
+-----+-----+
1 row in set (0.01 sec)

mysql> select max(scores),min(scores),avg(scores) from course;
+-----+-----+-----+
| max(scores) | min(scores) | avg(scores) |
+-----+-----+-----+
| 78 | 50 | 68.1667 |
+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select avg(scores) from course;
+-----+
| avg(scores) |
+-----+
| 68.1667 |
+-----+
1 row in set (0.00 sec)

mysql> select avg(scores) from course where courseNo like 'C0%';
+-----+
| avg(scores) |
+-----+
| 68.1667 |
+-----+
1 row in set (0.00 sec)

mysql>
```

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AGGREGATE

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ENG IN 10:37 06-05-2023

MySQL 8.0 Command Line Client - Unicode

```
| 78 | 50 | 68.1667 |  
+-----+  
1 row in set (0.00 sec)
```

mysql> select avg(scores) from course;

```
+-----+  
| avg(scores) |  
+-----+  
| 68.1667 |  
+-----+  
1 row in set (0.00 sec)
```

mysql> select avg(scores) from course where courseNo like 'C0%';

```
+-----+  
| avg(scores) |  
+-----+  
| 68.1667 |  
+-----+  
1 row in set (0.00 sec)
```

mysql> select sum(scores) from course;

```
+-----+  
| sum(scores) |  
+-----+  
| 409 |  
+-----+  
1 row in set (0.00 sec)
```

mysql> select coursedesc, count(courseName) from course;
ERROR 1054 (42S22): Unknown column 'coursedesc' in 'field list'

mysql> select count(courseName) from course;

```
+-----+  
| count(courseName) |  
+-----+  
| 6 |  
+-----+  
1 row in set (0.01 sec)
```

mysql> select count(courseName) from course where courseName='statistics';

```
+-----+  
| count(courseName) |  
+-----+  
| 3 |  
+-----+  
1 row in set (0.00 sec)
```

mysql>