

EXPERIMENT No.: - 05

➤ AGGREGATE FUNCTION (COUNT, SUM, MIN, MAX, AVG)

```
Command Prompt - mysql -u x + v
Microsoft Windows [Version 10.0.22621.2134]
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C:\Users\sapka>mysql -u root -p
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 22
Server version: 8.0.33 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE database studdb;
Query OK, 1 row affected (0.04 sec)

mysql> use studdb;
Database changed
mysql> CREATE TABLE student(Name char(50),Roll_No int,Age int,Marks float);
Query OK, 0 rows affected (0.07 sec)

mysql> INSERT INTO student VALUES('Omkar',62,20,8.27);
Query OK, 1 row affected (0.05 sec)

mysql> INSERT INTO student VALUES('Vishal',60,20,8.50);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO student VALUES('Gautam',52,21,8.96);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO student VALUES('Gunjan',20,20,8.70);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO student VALUES('Kunal',62,21,8.70);
Query OK, 1 row affected (0.01 sec)
```

```
Command Prompt - mysql -u x + v

mysql> SELECT * FROM student;
+-----+-----+-----+-----+
| Name | Roll_No | Age | Marks |
+-----+-----+-----+-----+
| Omkar | 62 | 20 | 8.27 |
| Vishal | 60 | 20 | 8.5 |
| Gautam | 52 | 21 | 8.96 |
| Gunjan | 20 | 20 | 8.7 |
| Kunal | 62 | 21 | 8.7 |
+-----+-----+-----+-----+
5 rows in set (0.02 sec)

mysql> SELECT COUNT(Name) FROM student;
+-----+
| COUNT(Name) |
+-----+
| 5 |
+-----+
1 row in set (0.02 sec)

mysql> SELECT SUM(Age) FROM student;
+-----+
| SUM(Age) |
+-----+
| 102 |
+-----+
1 row in set (0.00 sec)

mysql> SELECT MAX(Marks) FROM student;
+-----+
| MAX(Marks) |
+-----+
| 8.96 |
+-----+
1 row in set (0.04 sec)

mysql> SELECT MIN(Marks) FROM student;
+-----+
| MIN(Marks) |
+-----+
```

```
Command Prompt - mysql -u x + v
mysql> SELECT COUNT(Name) FROM student;
+-----+
| COUNT(Name) |
+-----+
|          5 |
+-----+
1 row in set (0.02 sec)

mysql> SELECT SUM(Age) FROM student;
+-----+
| SUM(Age) |
+-----+
|       102 |
+-----+
1 row in set (0.00 sec)

mysql> SELECT MAX(Marks) FROM student;
+-----+
| MAX(Marks) |
+-----+
|        8.96 |
+-----+
1 row in set (0.04 sec)

mysql> SELECT MIN(Marks) FROM student;
+-----+
| MIN(Marks) |
+-----+
|        8.27 |
+-----+
1 row in set (0.00 sec)

mysql> SELECT AVG(Marks) FROM student;
+-----+
| AVG(Marks) |
+-----+
| 8.626000022888183 |
+-----+
1 row in set (0.00 sec)
```

➤ TCL COMMAND (COMMIT, ROLLBACK, SAVEPOINT)

```
Command Prompt - mysql -u x + v
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\sapka> mysql -u root -p
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 26
Server version: 8.0.33 MySQL Community Server - GPL

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE database stud3db;
ERROR 1007 (HY000): Can't create database 'stud3db'; database exists
mysql> CREATE database stud4db;
Query OK, 1 row affected (0.01 sec)

mysql> USE stud4db;
Database changed
mysql> CREATE TABLE Student(Name char(50), Address char(50), Age int);
Query OK, 0 rows affected (0.03 sec)

mysql> INSERT INTO Student VALUES('ABC', 'Pune', 20);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Student VALUES('MNO', 'Nagar', 22);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Student VALUES('PQR', 'Dhule', 24);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Student VALUES('XYZ', 'Jalgaon', 26);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SELECT * FROM Student;
+-----+-----+-----+
| Name | Address | Age |
+-----+-----+-----+
| ABC  | Pune    | 20  |
| MNO  | Nagar   | 22  |
| PQR  | Dhule   | 24  |
| XYZ  | Jalgaon | 26  |
+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> SAVEPOINT S1;
Query OK, 0 rows affected (0.00 sec)

mysql> SELECT * FROM Student;
+-----+-----+-----+
| Name | Address | Age |
+-----+-----+-----+
| ABC  | Pune    | 20  |
| MNO  | Nagar   | 22  |
| PQR  | Dhule   | 24  |
| XYZ  | Jalgaon | 26  |
+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> INSERT INTO Student VALUES('IJK','Pimpri',28);
Query OK, 1 row affected (0.02 sec)

mysql> SELECT * FROM Student;
+-----+-----+-----+
| Name | Address | Age |
+-----+-----+-----+
| ABC  | Pune    | 20  |
| MNO  | Nagar   | 22  |
| PQR  | Dhule   | 24  |
| XYZ  | Jalgaon | 26  |
| IJK  | Pimpri  | 28  |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
4 rows in set (0.00 sec)

mysql> SAVEPOINT S1;
Query OK, 0 rows affected (0.00 sec)

mysql> SELECT * FROM Student;
+-----+-----+-----+
| Name | Address | Age |
+-----+-----+-----+
| ABC  | Pune    | 20  |
| MNO  | Nagar   | 22  |
| PQR  | Dhule   | 24  |
| XYZ  | Jalgaon | 26  |
+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> INSERT INTO Student VALUES('IJK','Pimpri',28);
Query OK, 1 row affected (0.02 sec)

mysql> SELECT * FROM Student;
+-----+-----+-----+
| Name | Address | Age |
+-----+-----+-----+
| ABC  | Pune    | 20  |
| MNO  | Nagar   | 22  |
| PQR  | Dhule   | 24  |
| XYZ  | Jalgaon | 26  |
| IJK  | Pimpri  | 28  |
+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> ROLLBACK S1;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'S
1' at line 1
mysql> ROLLBACK TO S1;
ERROR 1305 (42000): SAVEPOINT S1 does not exist
mysql> COMMIT;
Query OK, 0 rows affected (0.00 sec)

mysql> |
```