

Microsoft Windows [Version 10.0.26100.4652]

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C:\Program Files\MySQL\MySQL Server 8.0\bin>mysql -h localhost -u root -p

Enter password: ****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 17

Server version: 9.2.0 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 functions;

Query OK, 1 row affected (0.90 sec)

mysql> use functions;

Database changed

mysql> SELECT ABS(-45);

+-----+

| ABS(-45) |

+-----+

| 45 |

+-----+

1 row in set (0.00 sec)

mysql> SELECT CEIL(5.2), FLOOR(5.8);

```

+-----+-----+
| CEIL(5.2) | FLOOR(5.8) |
+-----+-----+
|      6 |      5 |
+-----+-----+
1 row in set (0.00 sec)

```

```

mysql> SELECT ROUND(123.4567, 2);
+-----+
| ROUND(123.4567, 2) |
+-----+
|      123.46 |
+-----+
1 row in set (0.00 sec)

```

```

mysql> SELECT 10 DIV 3;
+-----+
| 10 DIV 3 |
+-----+
|      3 |
+-----+
1 row in set (0.00 sec)

```

```

mysql> SELECT 20 % 5;
+-----+
| 20 % 5 |
+-----+
|      0 |
+-----+
1 row in set (0.00 sec)

```

```
mysql> SELECT TRUNCATE(123.8765, 3);
```

```
+-----+
| TRUNCATE(123.8765, 3) |
+-----+
|      123.876 |
+-----+
```

1 row in set (0.00 sec)

```
mysql> SELECT CONCAT('Pratiksha', '2005');
```

```
+-----+
| CONCAT('Pratiksha', '2005') |
+-----+
| kadambari2005 |
+-----+
```

1 row in set (0.00 sec)

```
mysql> SELECT REPEAT('Anushka', 3);
```

```
+-----+
| REPEAT('Pratiksha', 3) |
+-----+
| AnushkaAnushkaAnushka |
+-----+
```

1 row in set (0.00 sec)

```
mysql> SELECT REVERSE('Laxmi');
```

```
+-----+
| REVERSE('Laxmi') |
+-----+
| imxaL |
+-----+
```

1 row in set (0.00 sec)

```
mysql> SELECT INSTR('Pratiksha', 'h');
```

```
+-----+
```

```
| INSTR('Pratiksha', 'h') |
```

```
+-----+
```

```
|          0 |
```

```
+-----+
```

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

```
mysql> SELECT INSTR('piyu', 'u');
```

```
+-----+
```

```
| INSTR('kadu', 'u') |
```

```
+-----+
```

```
|          4 |
```

```
+-----+
```

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

```
mysql> SELECT ELT(2, 'alpha', 'ud', 'omega');
```

```
+-----+
```

```
| ELT(2, 'alpha', 'ud', 'omega') |
```

```
+-----+
```

```
| ud          |
```

```
+-----+
```

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

```
mysql> SELECT LPAD('Pratiksha', 5, '*');
```

```
+-----+
```

```
| LPAD('Pratiksha', 5, '*') |
```

```
+-----+
```

```
| Prati      |
```

```
+-----+
```

1 row in set (0.00 sec)

```
mysql> SELECT RPAD('Pratiksha', 10, '*');
```

```
+-----+
| RPAD('Pratiksha', 10, '*') |
+-----+
| Pratiksha*                |
+-----+
```

1 row in set (0.00 sec)

```
mysql> SELECT INSERT('Pratiksha', 5, 2, 'PQR');
```

```
+-----+
| INSERT('Pratiksha', 5, 2, 'PQR') |
+-----+
| PratiPQRksha                    |
+-----+
```

1 row in set (0.00 sec)

```
mysql> SELECT LEFT('Pratiksha', 3);
```

```
+-----+
| LEFT('Pratiksha', 3) |
+-----+
| kad                  |
+-----+
```

1 row in set (0.00 sec)

```
mysql> SELECT RIGHT('Pratiksha', 3);
```

```
+-----+
| RIGHT('Pratiksha', 3) |
+-----+
| rai                   |
+-----+
```

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

```
mysql> select power(2,3);
```

```
+-----+
| power(2,3) |
+-----+
|      8 |
+-----+
```

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

```
mysql> select sqrt(169);
```

```
+-----+
| sqrt(169) |
+-----+
|      13 |
+-----+
```

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

```
mysql> SELECT CONCAT('hello',null,'word');
```

```
+-----+
| CONCAT('hello',null,'word') |
+-----+
| NULL |
+-----+
```

```
1 row in set (0.10 sec)
```

```
mysql> CREATE TABLE Student (
-> student_id INT PRIMARY KEY,
-> student_name VARCHAR(30),
-> fees DECIMAL(10,2),
```

-> dept VARCHAR(50),

->);

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 ')' at line 6

mysql> CREATE TABLE Student (

-> student_id INT PRIMARY KEY,

-> student_name VARCHAR(30),

-> fees DECIMAL(10,2),

-> dept VARCHAR(50)

->);

Query OK, 0 rows affected (0.08 sec)

mysql> desc Student;

Field	Type	Null	Key	Default	Extra
student_id	int	NO	PRI	NULL	
student_name	varchar(30)	YES		NULL	
fees	decimal(10,2)	YES		NULL	
dept	varchar(50)	YES		NULL	

4 rows in set (0.03 sec)

mysql> INSERT INTO emp (empid, ename, salary, dept) VALUES

-> (1,'Pratiksha',6000,'IT'),

-> (2,'Teju',8000,'CS'),

-> (3,'Arohi',8000,'ELECT'),

-> (4,'girish',9000,'Mech');

ERROR 1146 (42S02): Table 'functions.emp' doesn't exist

mysql> INSERT INTO Student (student_id, student_name, fees, dept) VALUES

-> (1,'Pratiksha',6000,'IT'),

```
-> (2,'Teju',8000,'CS'),
-> (3,'Arohi',8000,'ELECT'),
-> (4,'girish',9000,'Mech'); Query
```

OK, 4 rows affected (0.36 sec)

Records: 4 Duplicates: 0 Warnings: 0

```
mysql> desc Student;
```

Field	Type	Null	Key	Default	Extra
student_id	int	NO	PRI	NULL	
student_name	varchar(30)	YES		NULL	
fees	decimal(10,2)	YES		NULL	
dept	varchar(50)	YES		NULL	

4 rows in set (0.00 sec)

```
mysql> SELECT * FROM Student;
```

student_id	student_name	fees	dept
1	Pratiksha	6000.00	IT
2	Teju	8000.00	CS
3	Arohi	8000.00	ELECT
4	girish	9000.00	Mech

4 rows in set (0.00 sec)

```
mysql> SELECT COUNT(*) AS total_Students FROM Student;
```

total_Students

```
+-----+
|      4 |
```

```
+-----+
```

1 row in set (0.01 sec)

```
mysql> SELECT SUM(fees) AS total_salary FROM Student;
```

```
+-----+
| total_salary |
```

```
+-----+
```

```
| 31000.00 |
```

```
+-----+
```

1 row in set (0.01 sec)

```
mysql> SELECT SUM(fees) AS total_fees FROM Student;
```

```
+-----+
```

```
| total_fees |
```

```
+-----+
```

```
| 31000.00 |
```

```
+-----+
```

1 row in set (0.00 sec)

```
mysql> SELECT AVG(fees) AS avg_fees FROM Student;
```

```
+-----+
```

```
| avg_fees  |
```

```
+-----+
```

```
| 7750.000000 |
```

```
+-----+
```

1 row in set (0.00 sec)

```
mysql> SELECT MIN(fees) AS min_fees FROM Student;
```

```
+-----+
```

```
| min_fees |
```

```
+-----+
```

```
| 6000.00 |
```

```
+-----+
```

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

```
mysql> SELECT MAX(fees) AS max_fees FROM Student;
```

```
+-----+
```

```
| max_fees |
```

```
+-----+
```

```
| 9000.00 |
```

```
+-----+
```

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

```
mysql> SELECT dept, COUNT(*) AS Student_count
```

```
-> FROM Student
```

```
-> GROUP BY dept;
```

```
+-----+-----+
```

```
| dept | Student_count |
```

```
+-----+-----+
```

```
| IT | 1 |
```

```
| CS | 1 |
```

```
| ELECT | 1 |
```

```
| Mech | 1 |
```

```
+-----+-----+
```

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

```
mysql> SELECT dept, AVG(fees) AS avg_fees;
```

```
ERROR 1054 (42S22): Unknown column 'dept' in 'field list'
```

```
mysql> SELECT dept, AVG(fees) AS avg_fees
```

```
-> FROM Student
```

-> GROUP BY dept

-> HAVING AVG(salary)>5000;

ERROR 1054 (42S22): Unknown column 'salary' in 'having clause'

mysql> SELECT dept, AVG(fees) AS avg_fees

-> FROM Student

-> GROUP BY dept

-> HAVING AVG(fees)>5000;

```
+-----+-----+
| dept | avg_fees |
+-----+-----+
| IT   | 6000.000000 |
| CS   | 8000.000000 |
| ELECT | 8000.000000 |
| Mech | 9000.000000 |
+-----+-----+
```

4 rows in set (0.00 sec)

mysql> SELECT CURDATE();

```
+-----+
| CURDATE() |
+-----+
| 2025-08-10 |
+-----+
```

1 row in set (0.00 sec)

mysql> SELECT CURTIME();

```
+-----+
| CURTIME() |
+-----+
| 20:16:10 |
+-----+
```

1 row in set (0.00 sec)

```
mysql> SELECT NOW();
```

```
+-----+
| NOW()      |
+-----+
| 2025-08-10 20:16:20 |
+-----+
```

1 row in set (0.00 sec)

```
mysql> SELECT ADDDATE(CURDATE(), INTERVAL 10 DAY);
```

```
+-----+
| ADDDATE(CURDATE(), INTERVAL 10 DAY) |
+-----+
| 2025-08-20                          |
+-----+
```

1 row in set (0.00 sec)

```
mysql> SELECT LAST_DAY(CURDATE());
```

```
+-----+
| LAST_DAY(CURDATE()) |
+-----+
| 2025-08-31          |
+-----+
```

1 row in set (0.00 sec)

```
mysql> SHOW TABLES;
```

```
+-----+
| Tables_in_functions |
+-----+
| student              |
+-----+
```

+-----+

1 row in set (0.02 sec)

mysql> CREATE TABLE table1 (

-> id INT PRIMARY KEY,

-> name VARCHAR(50)

->);

Query OK, 0 rows affected (0.02 sec)

mysql> INSERT INTO table1 (id, name) VALUES (1, 'kadambari'), (2, 'teju');

Query OK, 2 rows affected (0.01 sec)

Records: 2 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM function.table1;

ERROR 1049 (42000): Unknown database 'function'

mysql> SELECT * FROM functions.table1;

+---+-----+

| id | name |

+---+-----+

| 1 | kadambari |

| 2 | teju |

+---+-----+

2 rows in set (0.00 sec)

mysql> CREATE TABLE table2 (

-> id INT PRIMARY KEY,

-> name VARCHAR(50)

->);

Query OK, 0 rows affected (0.01 sec)

mysql> INSERT INTO table2 VALUES (2, 'Kadu'), (3, 'Ravi');

Query OK, 2 rows affected (0.00 sec)

Records: 2 Duplicates: 0 Warnings: 0

```
mysql> SELECT name FROM table1
```

```
-> UNION
```

```
-> SELECT name FROM table2;
```

```
+-----+
```

```
| name  |
```

```
+-----+
```

```
| kadambari |
```

```
| teju    |
```

```
| Kadu    |
```

```
| Ravi    |
```

```
+-----+
```

4 rows in set (0.00 sec)

```
mysql> SELECT name FROM table1 WHERE name IN (SELECT name FROM table2);
```

Empty set (0.00 sec)

```
mysql> SELECT column1 FROM table1
```

```
-> UNION ALL
```

```
-> SELECT column1 FROM table2;
```

ERROR 1054 (42S22): Unknown column 'column1' in 'field list'

```
mysql> CREATE TABLE employees_europe (
```

```
-> id INT PRIMARY KEY,
```

```
-> name VARCHAR(50)
```

```
-> );
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> CREATE TABLE employees_us (
```

```
-> id INT PRIMARY KEY,
```

-> name VARCHAR(50)

->);

Query OK, 0 rows affected (0.02 sec)

mysql> INSERT INTO employees_us VALUES (1, 'udayan'), (2, 'Neha'), (3, 'Ravi');

Query OK, 3 rows affected (0.01 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> INSERT INTO employees_europe VALUES (2, 'Neha'), (4, 'Anita'), (5, 'Karan');

Query OK, 3 rows affected (0.00 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> SELECT name FROM employees_europe;

+-----+

| name |

+-----+

| Neha |

| Anita |

| Karan |

+-----+

3 rows in set (0.00 sec)

mysql> SELECT name FROM employees_us

-> UNION ALL

-> SELECT name FROM employees_europe;

+-----+

| name |

+-----+

| udayan |

| Neha |

| Ravi |

```
| Neha |
```

```
| Anita |
```

```
| Karan |
```

```
+-----+
```

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

```
mysql> INSERT INTO employees_US VALUES (2, 'Neha'), (4, 'Anita'), (5, 'Karan');
```

```
ERROR 1062 (23000): Duplicate entry '2' for key 'employees_us.PRIMARY'
```

```
mysql> SELECT name FROM employees_us
```

```
-> WHERE name IN (SELECT name FROM employees_europe);
```

```
+-----+
```

```
| name |
```

```
+-----+
```

```
| Neha |
```

```
+-----+
```

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

```
mysql>
```