* **NUMERIC OPERATION :**

Microsoft Windows [Version 10.0.22631.5189]

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C:\Users\SAINATH> mysql -h localhost -u root -p

Enter password: \*\*\*\*\*\*\*\*\*\*\*\*\*

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

Your MySQL connection id is 8

Server version: 8.0.42 MySQL Community Server - GPL

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owners.

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

mysql> SELECT ABS(-25) AS AbsoluteValue;

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

| AbsoluteValue |

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

| 25 |

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

1 row in set (0.00 sec)

mysql> SELECT CEIL(10.2) AS RoundedUp;

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

| RoundedUp |

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

| 11 |

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

1 row in set (0.00 sec)

mysql> SELECT FLOOR(10.8) AS RoundedDown;

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

| RoundedDown |

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

| 10 |

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

1 row in set (0.00 sec)

mysql> SELECT ROUND(123.4567, 2) AS RoundedTo2Decimal;

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

| RoundedTo2Decimal |

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

| 123.46 |

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

1 row in set (0.00 sec)

mysql> SELECT POWER(2, 3) AS TwoPowerThree;

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

| TwoPowerThree |

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

| 8 |

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

1 row in set (0.00 sec)

mysql> SELECT SQRT(144) AS SquareRoot;

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

| SquareRoot |

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

| 12 |

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

1 row in set (0.00 sec)

mysql> SELECT MOD(10, 3) AS Remainder;

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

| Remainder |

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

| 1 |

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

1 row in set (0.00 sec)

mysql> SELECT SIGN(-20) AS SignValue;

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

| SignValue |

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

| -1 |

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

1 row in set (0.00 sec)

* **AGGREGATION FUNCTION :**

mysql> use inventry;

Database changed

mysql> desc sale;

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

| Field | Type | Null | Key | Default | Extra |

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

| sid | int | YES | | NULL | |

| pid | int | YES | MUL | NULL | |

| qty | int | YES | | NULL | |

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

3 rows in set (0.01 sec)

mysql> desc supplier;

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

| Field | Type | Null | Key | Default | Extra |

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

| supid | int | NO | PRI | NULL | |

| supname | varchar(20) | YES | | NULL | |

| supaddress | varchar(20) | YES | | NULL | |

| email | varchar(40) | YES | | NULL | |

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

4 rows in set (0.00 sec)

mysql> desc product;

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

| Field | Type | Null | Key | Default | Extra |

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

| pid | int | NO | PRI | NULL | |

| pname | varchar(20) | YES | | NULL | |

| price | float | YES | | NULL | |

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

3 rows in set (0.00 sec)

mysql> select\*from product;

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

| pid | pname | price |

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

| 99 | MILK | 350 |

| 101 | NULL | NULL |

| 104 | NULL | NULL |

| 145 | Sugar | 50 |

| 1045 | Salt | 500 |

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

5 rows in set (0.01 sec)

mysql> update product set pname='oil' where pid=101;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> update product set price=140 where pid=101;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> update product set pname='Poha' where pid=104;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> update product set price=50 where pid=104;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select\*from product;

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

| pid | pname | price |

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

| 99 | MILK | 350 |

| 101 | oil | 140 |

| 104 | Poha | 50 |

| 145 | Sugar | 50 |

| 1045 | Salt | 500 |

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

5 rows in set (0.00 sec)

mysql> SELECT SUM(price) AS total\_price FROM product;

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

| total\_price |

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

| 1090 |

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

1 row in set (0.00 sec)

mysql> SELECT AVG(price) AS average\_price from product;

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

| average\_price |

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

| 218 |

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

1 row in set (0.00 sec)

mysql> SELECT MIN(price) AS lowest\_price from product;

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

| lowest\_price |

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

| 50 |

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

1 row in set (0.00 sec)

mysql> SELECT MAX(price) AS highest\_price from product;

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

| highest\_price |

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

| 500 |

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

1 row in set (0.00 sec)

mysql> SELECT COUNT(\*) AS total\_products from product;

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

| total\_products |

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

| 5 |

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

1 row in set (0.00 sec)

mysql> SELECT price, COUNT(\*) AS count\_of\_same\_pricet from product GROUP BY price;

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

| price | count\_of\_same\_pricet |

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

| 350 | 1 |

| 140 | 1 |

| 50 | 2 |

| 500 | 1 |

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

4 rows in set (0.00 sec)

mysql> SELECT\* from product WHERE price > (SELECT AVG(price) FROM product);

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

| pid | pname | price |

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

| 99 | MILK | 350 |

| 1045 | Salt | 500 |

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

2 rows in set (0.00 sec)

* **STRING OPERATION :**

mysql> SELECT pname, UPPER(pname) AS upper\_name FROM product;

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

| pname | upper\_name |

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

| MILK | MILK |

| oil | OIL |

| Poha | POHA |

| Sugar | SUGAR |

| Salt | SALT |

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

5 rows in set (0.00 sec)

mysql> SELECT pname, LOWER(pname) AS lower\_name FROM product;

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

| pname | lower\_name |

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

| MILK | milk |

| oil | oil |

| Poha | poha |

| Sugar | sugar |

| Salt | salt |

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

5 rows in set (0.00 sec)

mysql> SELECT pname, LENGTH(pname) AS name\_length FROM product;

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

| pname | name\_length |

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

| MILK | 4 |

| oil | 3 |

| Poha | 4 |

| Sugar | 5 |

| Salt | 4 |

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

5 rows in set (0.00 sec)

mysql> SELECT pname, CHAR\_LENGTH(pname) AS char\_count FROM product;

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

| pname | char\_count |

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

| MILK | 4 |

| oil | 3 |

| Poha | 4 |

| Sugar | 5 |

| Salt | 4 |

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

5 rows in set (0.00 sec)

mysql> SELECT CONCAT(pname, ' - Rs.', price) AS product\_info FROM product;

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

| product\_info |

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

| MILK - Rs.350 |

| oil - Rs.140 |

| Poha - Rs.50 |

| Sugar - Rs.50 |

| Salt - Rs.500 |

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

5 rows in set (0.00 sec)

mysql> SELECT pname, SUBSTRING(pname, 1, 3) AS short\_name FROM product;

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

| pname | short\_name |

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

| MILK | MIL |

| oil | oil |

| Poha | Poh |

| Sugar | Sug |

| Salt | Sal |

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

5 rows in set (0.00 sec)

mysql> SELECT pname, REPLACE(pname, 'a', '@') AS modified\_name FROM product;

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

| pname | modified\_name |

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

| MILK | MILK |

| oil | oil |

| Poha | Poh@ |

| Sugar | Sug@r |

| Salt | S@lt |

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

5 rows in set (0.00 sec)

mysql> SELECT TRIM(' Salt ') AS trimmed\_text;

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

| trimmed\_text |

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

| Salt |

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

1 row in set (0.00 sec)

mysql> SELECT pname, LEFT(pname, 2) AS first\_two, RIGHT(pname, 2) AS last\_two FROM product;

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

| pname | first\_two | last\_two |

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

| MILK | MI | LK |

| oil | oi | il |

| Poha | Po | ha |

| Sugar | Su | ar |

| Salt | Sa | lt |

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

5 rows in set (0.00 sec)

mysql> SELECT pname, INSTR(pname, 'a') AS position\_of\_a FROM product;

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

| pname | position\_of\_a |

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

| MILK | 0 |

| oil | 0 |

| Poha | 4 |

| Sugar | 4 |

| Salt | 2 |

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

5 rows in set (0.00 sec)

mysql> SELECT \* FROM product WHERE pname LIKE 'S%';

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

| pid | pname | price |

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

| 145 | Sugar | 50 |

| 1045 | Salt | 500 |

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

2 rows in set (0.00 sec)

mysql> SELECT \* FROM product WHERE pname LIKE '%a%';

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

| pid | pname | price |

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

| 104 | Poha | 50 |

| 145 | Sugar | 50 |

| 1045 | Salt | 500 |

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

3 rows in set (0.00 sec)

* **DATE FUNCTION :**

mysql> SELECT CURRENT\_DATE() AS today;

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

| today |

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

| 2025-07-29 |

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

1 row in set (0.00 sec)

mysql> SELECT NOW() AS current\_datetime;

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

| current\_datetime |

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

| 2025-07-29 12:42:38 |

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

1 row in set (0.00 sec)

mysql> SELECT CURDATE() AS today\_date, CURTIME() AS now\_time;

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

| today\_date | now\_time |

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

| 2025-07-29 | 12:43:44 |

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

1 row in set (0.00 sec)

mysql> SELECT DATE(NOW()) AS only\_date;

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

| only\_date |

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

| 2025-07-29 |

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

1 row in set (0.00 sec)

mysql> SELECT LAST\_DAY(CURDATE()) AS last\_day\_of\_month;

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

| last\_day\_of\_month |

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

| 2025-07-31 |

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

1 row in set (0.00 sec)

mysql> SELECT WEEKDAY('2025-07-29') AS weekday\_number;

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

| weekday\_number |

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

| 1 |

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

1 row in set (0.00 sec)

mysql> SELECT STR\_TO\_DATE('29-07-2025', '%d-%m-%Y') AS formatted\_date;

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

| formatted\_date |

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

| 2025-07-29 |

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

1 row in set (0.00 sec)