mysql> show databases;

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

| Database |

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

| 4bsccm\_2340146 |

| 4bsccm\_2340148 |

| 4bsccm\_2340177 |

| food |

| foodmng |

| information\_schema |

| library\_mangement |

| mysql |

| performance\_schema |

| social\_mediadb |

| socialmediadb |

| sys |

| world |

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

13 rows in set (0.13 sec)

mysql> use 4bsccm\_2340146;

Database changed

mysql> CREATE DATABASE IF NOT EXISTS SocialMediaDB;

Query OK, 1 row affected, 1 warning (0.01 sec)

mysql> USE SocialMediaDB;

Database changed

mysql> CREATE TABLE IF NOT EXISTS Posts (

-> post\_id INT AUTO\_INCREMENT PRIMARY KEY,

-> user\_id INT NOT NULL,

-> content TEXT NOT NULL,

-> created\_at DATETIME DEFAULT NOW(),

-> likes INT DEFAULT 0

-> );

Query OK, 0 rows affected, 1 warning (0.03 sec)

mysql> INSERT INTO Posts (user\_id, content, created\_at, likes) VALUES

-> (1, 'First post!', '2024-02-10 14:30:00', 10),

-> (2, 'Hello world!', '2024-02-11 09:15:00', 25),

-> (3, 'Good morning!', '2024-02-12 07:45:00', 50);

Query OK, 3 rows affected (0.01 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> SELECT CURRENT\_DATE() AS CurrentDate;

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

| CurrentDate |

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

| 2025-02-20 |

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

1 row in set (0.01 sec)

mysql> SELECT CURTIME() AS CurrentTime;

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

| CurrentTime |

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

| 10:35:46 |

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

1 row in set (0.00 sec)

mysql> SELECT CURTIME() AS CurrentTime;

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

| CurrentTime |

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

| 10:35:51 |

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

1 row in set (0.00 sec)

mysql> SELECT post\_id, DATE(created\_at) AS PostDate FROM Posts;

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

| post\_id | PostDate |

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

| 1 | 2024-02-10 |

| 2 | 2024-02-11 |

| 3 | 2024-02-12 |

| 4 | 2024-02-10 |

| 5 | 2024-02-11 |

| 6 | 2024-02-12 |

| 7 | 2024-02-10 |

| 8 | 2024-02-11 |

| 9 | 2024-02-12 |

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

9 rows in set (0.00 sec)

mysql> SELECT post\_id, TIME(created\_at) AS PostTime FROM Posts;

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

| post\_id | PostTime |

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

| 1 | 14:30:00 |

| 2 | 09:15:00 |

| 3 | 07:45:00 |

| 4 | 14:30:00 |

| 5 | 09:15:00 |

| 6 | 07:45:00 |

| 7 | 14:30:00 |

| 8 | 09:15:00 |

| 9 | 07:45:00 |

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

9 rows in set (0.00 sec)

mysql> SELECT DATEDIFF('2024-02-12', '2024-02-10') AS DaysDifference;

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

| DaysDifference |

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

| 2 |

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

1 row in set (0.01 sec)

mysql> SELECT post\_id, DATE\_ADD(created\_at, INTERVAL 7 DAY) AS ExpiryDate FROM Posts;

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

| post\_id | ExpiryDate |

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

| 1 | 2024-02-17 14:30:00 |

| 2 | 2024-02-18 09:15:00 |

| 3 | 2024-02-19 07:45:00 |

| 4 | 2024-02-17 14:30:00 |

| 5 | 2024-02-18 09:15:00 |

| 6 | 2024-02-19 07:45:00 |

| 7 | 2024-02-17 14:30:00 |

| 8 | 2024-02-18 09:15:00 |

| 9 | 2024-02-19 07:45:00 |

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

9 rows in set (0.00 sec)

mysql> SELECT post\_id, DATE\_SUB(created\_at, INTERVAL 3 DAY) AS ModifiedDate FROM Posts;

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

| post\_id | ModifiedDate |

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

| 1 | 2024-02-07 14:30:00 |

| 2 | 2024-02-08 09:15:00 |

| 3 | 2024-02-09 07:45:00 |

| 4 | 2024-02-07 14:30:00 |

| 5 | 2024-02-08 09:15:00 |

| 6 | 2024-02-09 07:45:00 |

| 7 | 2024-02-07 14:30:00 |

| 8 | 2024-02-08 09:15:00 |

| 9 | 2024-02-09 07:45:00 |

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

9 rows in set (0.00 sec)

mysql> SELECT ABS(-5) AS AbsoluteLikes;

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

| AbsoluteLikes |

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

| 5 |

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

1 row in set (0.01 sec)

mysql> SELECT CEIL(AVG(likes)) AS RoundedUpLikes FROM Posts;

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

| RoundedUpLikes |

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

| 29 |

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

1 row in set (0.01 sec)

mysql> SELECT FLOOR(AVG(likes)) AS RoundedDownLikes FROM Posts;

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

| RoundedDownLikes |

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

| 28 |

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

1 row in set (0.00 sec)

mysql> SELECT post\_id, ROUND(likes, -1) AS RoundedLikes FROM Posts;

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

| post\_id | RoundedLikes |

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

| 1 | 10 |

| 2 | 30 |

| 3 | 50 |

| 4 | 10 |

| 5 | 30 |

| 6 | 50 |

| 7 | 10 |

| 8 | 30 |

| 9 | 50 |

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

9 rows in set (0.01 sec)

mysql> SELECT post\_id, MOD(likes, 7) AS LikesRemainder FROM Posts;

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

| post\_id | LikesRemainder |

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

| 1 | 3 |

| 2 | 4 |

| 3 | 1 |

| 4 | 3 |

| 5 | 4 |

| 6 | 1 |

| 7 | 3 |

| 8 | 4 |

| 9 | 1 |

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

9 rows in set (0.01 sec)

mysql> SELECT post\_id, MOD(likes, 7) AS LikesRemainder FROM Posts;

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

| post\_id | LikesRemainder |

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

| 1 | 3 |

| 2 | 4 |

| 3 | 1 |

| 4 | 3 |

| 5 | 4 |

| 6 | 1 |

| 7 | 3 |

| 8 | 4 |

| 9 | 1 |

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

9 rows in set (0.00 sec)

mysql> SELECT post\_id, MOD(likes, 7) AS LikesRemainder FROM Posts;

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

| post\_id | LikesRemainder |

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

| 1 | 3 |

| 2 | 4 |

| 3 | 1 |

| 4 | 3 |

| 5 | 4 |

| 6 | 1 |

| 7 | 3 |

| 8 | 4 |

| 9 | 1 |

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

9 rows in set (0.00 sec)

mysql> tee off;