MariaDB [satish] > DROP VIEW IF EXISTS user_addresses;
Query OK, 0 rows affected (0.001 sec)

```
MariaDB [satish]> DELIMITER //
MariaDB [satish]> CREATE TRIGGER before_insert_users
    -> BEFORE INSERT ON users
    -> FOR EACH ROW
    -> BEGIN
           INSERT INTO user_logs (user_id, action_type, action_timestamp)
          VALUES (NEW.id, 'INSERT', NOW());
    -> END//
Query OK, 0 rows affected (0.040 sec)
MariaDB [satish]> DELIMITER ;
MariaDB [satish]> DELIMITER //
MariaDB [satish]> CREATE TRIGGER after_insert_users
    -> AFTER INSERT ON users
    -> FOR EACH ROW
    -> BEGIN
           INSERT INTO user_logs (user_id, action_type, action_timestamp)
          VALUES (NEW.id, 'AFTER INSERT', NOW());
    -> END//
Query OK, 0 rows affected (0.015 sec)
MariaDB [satish]> DELIMITER ;
MariaDB [satish]> DELIMITER //
MariaDB [satish] > CREATE TRIGGER before update users
    -> BEFORE UPDATE ON users
    -> FOR EACH ROW
    -> BEGIN
           INSERT INTO user_logs (user_id, action_type, action_timestamp)
          VALUES (OLD.id, 'UPDATE', NOW());
    -> END//
Query OK, 0 rows affected (0.013 sec)
MariaDB [satish]> DELIMITER ;
MariaDB [satish]> DELIMITER //
MariaDB [satish] > CREATE TRIGGER after_update_users
    -> AFTER UPDATE ON users
    -> FOR EACH ROW
    -> BEGIN
           INSERT INTO user_logs (user_id, action_type, action_timestamp)
    ->
          VALUES (OLD.id, 'AFTER UPDATE', NOW());
    -> END//
Query OK, 0 rows affected (0.042 sec)
MariaDB [satish]> DELIMITER ;
```

```
MariaDB [satish]> DELIMITER //
 MariaDB [satish] > CREATE TRIGGER before_delete users
        -> BEFORE DELETE ON users
        -> FOR EACH ROW
        -> BEGIN
                  INSERT INTO user_logs (user_id, action_type, action_timestamp)
        ->
                  VALUES (OLD.id, 'DELETE', NOW());
        ->
        -> END//
 Query OK, 0 rows affected (0.014 sec)
 MariaDB [satish] > DELIMITER ;
 MariaDB [satish]> DELIMITER //
 MariaDB [satish] > CREATE TRIGGER after_delete_users
        -> AFTER DELETE ON users
        -> FOR EACH ROW
        -> BEGIN
                   INSERT INTO user_logs (user_id, action_type, action_timestamp)
                  VALUES (OLD.id, 'AFTER DELETE', NOW());
        ->
 Query OK, 0 rows affected (0.014 sec)
 MariaDB [satish]> DELIMITER ;
MariaDB [satish] > SHOW TRIGGERS:
              | Event | Table | Statement
| before_insert_users | INSERT | users | BEGIN
  INSERT INTO user_logs (user_id, action_type, action_timestamp)
  VALUES (NEW.id, 'INSERT', NOW());
END | BEFORE | 2024-03-14 19:21:57.32 | STRICT_TRANS_TABLES,ERROR_FOR_DIVISION_BY_ZERO,NO_AUTO_CREATE_USER,NO_ENGINE_SUBSTITUTION | root@localhost | utf8
| after_insert_users | INSERT | users | BEGIN
  INSERT INTO user_logs (user_id, action_type, action_timestamp)
  VALUES (NEW.id, 'AFTER INSERT', NOW());
END | AFTER | 2024-03-14 19:29:03.90 | STRICT_TRANS_TABLES, ERROR_FOR_DIVISION_BY_ZERO, NO_AUTO_CREATE_USER, NO_ENGINE_SUBSTITUTION | root@localhost | utf8
| before_update_users | UPDATE | users | BEGIN
  INSERT INTO user_logs (user_id, action_type, action_timestamp)
  VALUES (OLD.id, 'UPDATE', NOW());
END | BEFORE | 2024-03-14 19:30:08.24 | STRICT_TRANS_TABLES,ERROR_FOR_DIVISION_BY_ZERO,NO_AUTO_CREATE_USER,NO_ENGINE_SUBSTITUTION | root@localhost | utf8
| after_update_users | UPDATE | users | BEGIN
  INSERT INTO user_logs (user_id, action_type, action_timestamp)
  VALUES (OLD.id, 'AFTER UPDATE', NOW());
END | AFTER | 2024-03-14 19:30:40.05 | STRICT_TRANS_TABLES,ERROR_FOR_DIVISION_BY_ZERO,NO_AUTO_CREATE_USER,NO_ENGINE_SUBSTITUTION | root@localhost | utf8
```

| BEFORE | 2024-03-14 19:31:18.77 | STRICT_TRANS_TABLES,ERROR_FOR_DIVISION_BY_ZERO,NO_AUTO_CREATE_USER,NO_ENGINE_SUBSTITUTION | root@localhost | utf8

END | AFTER | 2024-03-14 19:31:59.12 | STRICT_TRANS_TABLES,ERROR_FOR_DIVISION_BY_ZERO,NO_AUTO_CREATE_USER,NO_ENGINE_SUBSTITUTION | root@localhost | utf8

| before_delete_users | DELETE | users | BEGIN

| after_delete_users | DELETE | users | BEGIN

VALUES (OLD.id, 'AFTER DELETE', NOW());

VALUES (OLD.id, 'DELETE', NOW());

6 rows in set (0.002 sec)

INSERT INTO user_logs (user_id, action_type, action_timestamp)

INSERT INTO user_logs (user_id, action_type, action_timestamp)

```
MariaDB [satish] > SHOW TRIGGERS LIKE 'users';
| Trigger | Event | Table | Statement
| before_insert_users | INSERT | users | BEGIN
   INSERT INTO user_logs (user_id, action_type, action_timestamp)
   VALUES (NEW.id, 'INSERT', NOW())
BND | BEFORE | 2024-03-14 19:21:57.32 | STRICT_TRANS_TABLES, ERROR_FOR_DIVISION_BY_ZERO, NO_AUTO_CREATE_USER, NO_ENGINE_SUBSTITUTION | root@localhost | utf8
| after_insert_users | INSERT | users | BEGIN
   INSERT INTO user_logs (user_id, action_type, action_timestamp)
VALUES (NEW.id, 'AFTER INSERT', NOW());
END | AFTER | 2024-03-14 19:29:03.90 | STRICT_TRANS_TABLES,ERROR_FOR_DIVISION_BY_ZERO,NO_AUTO_CREATE_USER,NO_ENGINE_SUBSTITUTION | root@localhost | utf8
| before_update_users | UPDATE | users | BEGIN
   INSERT INTO user_logs (user_id, action_type, action_timestamp)
   VALUES (OLD.id, 'UPDATE', NOW());
       | BEFORE | 2024-03-14 19:30:08.24 | STRICT TRANS TABLES, ERROR FOR DIVISION BY ZERO, NO AUTO CREATE USER, NO ENGINE SUBSTITUTION | xoot@localhost | utf8
| after_update_users | UPDATE | users | BEGIN
   INSERT INTO user_logs (user_id, action_type, action_timestamp)
VALUES (OLD.id, 'AFTER UPDATE', NOW());
END | AFTER | 2024-03-14 19:30:40.05 | STRICT_TRANS_TABLES,ERROR_FOR_DIVISION_BY_ZERO,NO_AUTO_CREATE_USER,NO_ENGINE_SUBSTITUTION | root@localhost | utf8
| before_delete_users | DELETE | users | BEGIN
   INSERT INTO user_logs (user_id, action_type, action_timestamp)
    VALUES (OLD.id, 'DELETE', NOW())
          | BEFORE | 2024-03-14 19:31:18.77 | STRICT TRANS TABLES, ERROR FOR DIVISION BY ZERO, NO AUTO CREATE USER, NO ENGINE SUBSTITUTION | root@localhost | utf8
| after_delete_users | DELETE | users | BEGIN
   INSERT INTO user_logs (user_id, action_type, action_timestamp)
    VALUES (OLD.id, 'AFTER DELETE', NOW());
END | AFTER | 2024-03-14 19:31:59.12 | STRICT_TRANS_TABLES,ERROR_FOR_DIVISION_BY_ZERO,NO_AUTO_CREATE_USER,NO_ENGINE_SUBSTITUTION | zoot@localhost | utf8
6 rows in set (0.002 sec)
```

```
MariaDB [satish] > INSERT INTO users (username, email, age)
   -> VALUES (
   -> 'Satish_Chaudhary',
   -> 'sung20700@gmail.com',
   -> 21
   -> );
Query OK, 1 row affected (0.012 sec)
MariaDB [satish] > UPDATE users
   -> SET age = 22
   -> WHERE email = 'sung20700@gmail.com';
Query OK, 1 row affected (0.012 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MariaDB [satish] > DELETE FROM users
   -> WHERE email = 'sung20700@gmail.com';
Query OK, 1 row affected (0.012 sec)
MariaDB [satish]> SELECT * FROM user_logs;
| id | user_id | action_type | action_timestamp
0 | INSERT
                        | 2024-03-14 19:44:35 |
           20 | AFTER INSERT | 2024-03-14 19:44:35 |
  2 |
          20 | UPDATE
                         | 2024-03-14 19:44:44 |
           20 | AFTER UPDATE | 2024-03-14 19:44:44 |
                        | 2024-03-14 19:44:54 |
           20 | DELETE
           20 | AFTER DELETE | 2024-03-14 19:44:54 |
  6 I
6 rows in set (0.000 sec)
```