mysql> create database account;

Query OK, 1 row affected (0.28 sec)

mysql> use account;

Database changed

mysql> CREATE TABLE account (

-> acc\_no INT(20),

-> name VARCHAR(20),

-> amount INT(20)

-> );

Query OK, 0 rows affected, 2 warnings (2.25 sec)

mysql> INSERT INTO account VALUES

-> (1, 'Ravi', 2000),

-> (2, 'Amit', 3000),

-> (3, 'Rahul', 6000);

Query OK, 3 rows affected (0.33 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> INSERT INTO account VALUES

-> (4, 'Suresh', 7000),

-> (5, 'Satish', 8000);

Query OK, 2 rows affected (0.11 sec)

Records: 2 Duplicates: 0 Warnings: 0

mysql> select \* from account;

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

| acc\_no | name | amount |

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

| 1 | Ravi | 2000 |

| 2 | Amit | 3000 |

| 3 | Rahul | 6000 |

| 4 | Suresh | 7000 |

| 5 | Satish | 8000 |

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

5 rows in set (0.00 sec)

mysql> CREATE TABLE account\_log (

-> acc\_no INT(20),

-> name VARCHAR(20),

-> amount INT(20),

-> tran\_type VARCHAR(20),

-> tran\_time TIMESTAMP

-> );

Query OK, 0 rows affected, 2 warnings (0.76 sec)

mysql> desc account;

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

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

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

| acc\_no | int | YES | | NULL | |

| name | varchar(20) | YES | | NULL | |

| amount | int | YES | | NULL | |

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

3 rows in set (0.31 sec)

mysql> desc account\_log;

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

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

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

| acc\_no | int | YES | | NULL | |

| name | varchar(20) | YES | | NULL | |

| amount | int | YES | | NULL | |

| tran\_type | varchar(20) | YES | | NULL | |

| tran\_time | timestamp | YES | | NULL | |

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

5 rows in set (0.02 sec)

mysql> DELIMITER //

mysql> CREATE TRIGGER acc\_log

-> AFTER UPDATE ON account

-> FOR EACH ROW

-> BEGIN

-> DECLARE tran\_type VARCHAR(20);

-> DECLARE amt INT;

->

-> IF OLD.amount > NEW.amount THEN

-> SET tran\_type = 'Withdraw';

-> SET amt = OLD.amount - NEW.amount;

-> ELSE

-> SET tran\_type = 'Deposited';

-> SET amt = NEW.amount - OLD.amount;

-> END IF;

->

-> INSERT INTO account\_log (acc\_no, name, amount, tran\_type, tran\_time)

-> VALUES (OLD.acc\_no, OLD.name, amt, tran\_type, NOW());

-> END;

-> //

Query OK, 0 rows affected (0.22 sec)

mysql> DELIMITER ;

mysql> select \* from account;

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

| acc\_no | name | amount |

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

| 1 | Ravi | 2000 |

| 2 | Amit | 3000 |

| 3 | Rahul | 6000 |

| 4 | Suresh | 7000 |

| 5 | Satish | 8000 |

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

5 rows in set (0.00 sec)

mysql> update account set amount=5000 where acc\_no=1;

Query OK, 1 row affected (0.18 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from account;

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

| acc\_no | name | amount |

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

| 1 | Ravi | 5000 |

| 2 | Amit | 3000 |

| 3 | Rahul | 6000 |

| 4 | Suresh | 7000 |

| 5 | Satish | 8000 |

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

5 rows in set (0.00 sec)

mysql> select \* from account\_log;

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

| acc\_no | name | amount | tran\_type | tran\_time |

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

| 1 | Ravi | 3000 | Deposited | 2024-04-25 13:52:39 |

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

1 row in set (0.00 sec)

mysql> update account set amount=4000 where acc\_no=1;

Query OK, 1 row affected (0.17 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from account;

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

| acc\_no | name | amount |

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

| 1 | Ravi | 4000 |

| 2 | Amit | 3000 |

| 3 | Rahul | 6000 |

| 4 | Suresh | 7000 |

| 5 | Satish | 8000 |

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

5 rows in set (0.00 sec)

mysql> select \* from account\_log;

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

| acc\_no | name | amount | tran\_type | tran\_time |

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

| 1 | Ravi | 3000 | Deposited | 2024-04-25 13:52:39 |

| 1 | Ravi | 1000 | Withdraw | 2024-04-25 13:53:03 |

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

2 rows in set (0.00 sec)