

```
MariaDB [(none)]>
MariaDB [(none)]> CREATE database if not exists store;
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> use store;
Database changed
MariaDB [store]> CREATE TABLE BOOK (
  ->     Isbn VARCHAR(10) PRIMARY KEY,
  ->     Title VARCHAR(100),
  ->     SoldCopies INT
  -> );
Query OK, 0 rows affected (0.006 sec)
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MariaDB [store]>
MariaDB [store]> CREATE TABLE WRITING (
  ->     Isbn VARCHAR(10),
  ->     Name VARCHAR(50),
  ->     PRIMARY KEY (Isbn, Name),
  ->     FOREIGN KEY (Isbn) REFERENCES BOOK(Isbn)
  -> );
Query OK, 0 rows affected (0.006 sec)

MariaDB [store]>
MariaDB [store]> CREATE TABLE AUTHOR (
  ->     Name VARCHAR(50) PRIMARY KEY,
  ->     SoldCopies INT
  -> );
Query OK, 0 rows affected (0.005 sec)

MariaDB [store]>
MariaDB [store]> CREATE TABLE Customer (
  ->     cust_id INT PRIMARY KEY,
  ->     Principal_amount DOUBLE,
  ->     Rate_of_interest DOUBLE,
  ->     Years INT
  -> );
Query OK, 0 rows affected (0.005 sec)

MariaDB [store]>
MariaDB [store]>
MariaDB [store]> INSERT INTO BOOK (Isbn, Title, SoldCopies)
  -> VALUES ('9783161', 'Crime and Punishment', 500);
Query OK, 1 row affected (0.001 sec)

MariaDB [store]>
MariaDB [store]> INSERT INTO WRITING (Isbn, Name)
  -> VALUES ('9783161', 'Fyodor Dostoevsky');
Query OK, 1 row affected (0.001 sec)

MariaDB [store]>
MariaDB [store]> INSERT INTO AUTHOR (Name, SoldCopies)
  -> VALUES ('Fyodor Dostoevsky', 500);
Query OK, 1 row affected (0.001 sec)

MariaDB [store]>
MariaDB [store]> INSERT INTO Customer (cust_id, Principal_amount, Rate_of_interest
  , Years)
  -> VALUES (1, 1000, 0.05, 5);
Query OK, 1 row affected (0.001 sec)

MariaDB [store]>
MariaDB [store]> -- Create Triggers
MariaDB [store]>
MariaDB [store]> DELIMITER //
MariaDB [store]> CREATE TRIGGER update_author_soldcopies
  -> AFTER UPDATE ON BOOK
  -> FOR EACH ROW
  -> BEGIN
  ->     IF NEW.SoldCopies != OLD.SoldCopies THEN
  ->         UPDATE AUTHOR
  ->         SET SoldCopies = SoldCopies + (NEW.SoldCopies - OLD.SoldCopies)

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WHERE Name IN (SELECT Name FROM WRITING WHERE Isbn = NEW.Isbn);
-> END IF;
-> END//
Query OK, 0 rows affected (0.003 sec)

MariaDB [store]> DELIMITER ;
MariaDB [store]>
MariaDB [store]> delimiter $$
MariaDB [store]> CREATE TRIGGER insert_author_soldcopies
-> AFTER INSERT ON WRITING
-> FOR EACH ROW
-> BEGIN
-> UPDATE AUTHOR
-> SET SoldCopies = SoldCopies + (SELECT SoldCopies FROM BOOK WHERE Isbn =
NEW.Isbn)
-> WHERE Name = NEW.Name;
-> END $$
Query OK, 0 rows affected (0.003 sec)

MariaDB [store]> delimiter ;
MariaDB [store]>
MariaDB [store]> select * from BOOK;
+-----+-----+-----+
| Isbn   | Title                | SoldCopies |
+-----+-----+-----+
| 9783161 | Crime and Punishment |          500 |
+-----+-----+-----+
1 row in set (0.002 sec)

MariaDB [store]> select * from AUTHOR;
+-----+-----+
| Name                | SoldCopies |
+-----+-----+
| Fyodor Dostoevsky   |          500 |
+-----+-----+
1 row in set (0.001 sec)

MariaDB [store]> select * from WRITING;
+-----+-----+
| Isbn   | Name                |
+-----+-----+
| 9783161 | Fyodor Dostoevsky   |
+-----+-----+
1 row in set (0.001 sec)

MariaDB [store]> select * from Customer;
+-----+-----+-----+-----+
| cust_id | Principal_amount | Rate_of_interest | Years |
+-----+-----+-----+-----+
|        1 |          1000    |             0.05 |      5 |
+-----+-----+-----+-----+
1 row in set (0.001 sec)

-- Test Triggers

MariaDB [store]> select * from AUTHOR;
+-----+-----+
| Name                | SoldCopies |
+-----+-----+

```

```
+-----+
| Fyodor Dostoevsky |      500 |
+-----+
1 row in set (0.001 sec)
```

```
MariaDB [store]> UPDATE BOOK SET SoldCopies = 600 WHERE Isbn = '9783161';
Query OK, 1 row affected (0.004 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [store]> select * from AUTHOR;
+-----+
| Name          | SoldCopies |
+-----+
| Fyodor Dostoevsky |      600 |
+-----+
1 row in set (0.000 sec)
```