[root@localhost ~]# systemctl start mysqld;

[root@localhost ~]# mysql;

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

Your MariaDB connection id is 2

Server version: 5.5.43-MariaDB MariaDB Server

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

MariaDB [(none)]> use db7;

Reading table information for completion of table and column names

You can turn off this feature to get a quicker startup with -A

Database changed

MariaDB [db7]> create table library(b\_id int (10) primary key,b\_name char(20),cost int(10),author char(20),publisher char(20));

Query OK, 0 rows affected (0.07 sec)

MariaDB [db7]> create table libaudit(b\_id int(10),b\_name char(20),cost int(10),author char(20),publisher char(20),operation char(10),foreign key(b\_id) references library(b\_id));

Query OK, 0 rows affected (0.05 sec)

MariaDB [db7]> desc library;

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

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

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

| b\_id | int(10) | NO | PRI | NULL | |

| b\_name | char(20) | YES | | NULL | |

| cost | int(10) | YES | | NULL | |

| author | char(20) | YES | | NULL | |

| publisher | char(20) | YES | | NULL | |

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

5 rows in set (0.02 sec)

MariaDB [db7]> insert into library values(101,'DBMS',1000,'Korth','Tecnical');

Query OK, 1 row affected (0.01 sec)

MariaDB [db7]> desc libaudit;

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

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

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

| b\_id | int(10) | YES | MUL | NULL | |

| b\_name | char(20) | YES | | NULL | |

| cost | int(10) | YES | | NULL | |

| author | char(20) | YES | | NULL | |

| publisher | char(20) | YES | | NULL | |

| operation | char(10) | YES | | NULL | |

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

6 rows in set (0.00 sec)

MariaDB [db7]> create TRIGGER TRIG\_UPDATE AFTER UPDATE ON library FOR EACH ROW insert into libaudit values(old.b\_id,old.b\_name,old.cost,old.author,old.publisher,"Updated");

Query OK, 0 rows affected (0.07 sec)

MariaDB [db7]> select \* from library;

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

| b\_id | b\_name | cost | author | publisher |

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

| 101 | DBMS | 1000 | Korth | Tecnical |

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

1 row in set (0.00 sec)

MariaDB [db7]> insert into library values(102,'SQL',500,'Khorth','MGH');

Query OK, 1 row affected (0.01 sec)

MariaDB [db7]> select \* from library;

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

| b\_id | b\_name | cost | author | publisher |

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

| 101 | DBMS | 1000 | Korth | Tecnical |

| 102 | SQL | 500 | Khorth | MGH |

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

2 rows in set (0.00 sec)

MariaDB [db7]> update library set cost = 1000 where b\_id = 102;

Query OK, 1 row affected (0.03 sec)

Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [db7]> select \* from libaudit;

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

| b\_id | b\_name | cost | author | publisher | operation |

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

| 102 | SQL | 500 | Khorth | MGH | Updated |

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

1 row in set (0.00 sec)

MariaDB [db7]> select \* from library;

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

| b\_id | b\_name | cost | author | publisher |

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

| 101 | DBMS | 1000 | Korth | Tecnical |

| 102 | SQL | 1000 | Khorth | MGH |

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

2 rows in set (0.00 sec)

MariaDB [db7]> update library set cost = 2000;

Query OK, 2 rows affected (0.02 sec)

Rows matched: 2 Changed: 2 Warnings: 0

MariaDB [db7]> select \* from libaudit;

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

| b\_id | b\_name | cost | author | publisher | operation |

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

| 102 | SQL | 500 | Khorth | MGH | Updated |

| 101 | DBMS | 1000 | Korth | Tecnical | Updated |

| 102 | SQL | 1000 | Khorth | MGH | Updated |

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

3 rows in set (0.00 sec)

MariaDB [db7]> create TRIGGER TRI\_DELETE before delete on library for each row insert into libaudit values(old.b\_id,old.b\_name,old.cost,old.author,old.publisher,'Deleted');

Query OK, 0 rows affected (0.07 sec)

MariaDB [db7]> delete from libaudit where b\_id=101;

Query OK, 1 row affected (0.02 sec)

MariaDB [db7]> select \* from libaudit;

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

| b\_id | b\_name | cost | author | publisher | operation |

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

| 102 | SQL | 500 | Khorth | MGH | Updated |

| 102 | SQL | 1000 | Khorth | MGH | Updated |

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

2 rows in set (0.00 sec)

MariaDB [db7]> select \* from library;

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

| b\_id | b\_name | cost | author | publisher |

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

| 101 | DBMS | 2000 | Korth | Tecnical |

| 102 | SQL | 2000 | Khorth | MGH |

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

2 rows in set (0.00 sec)

MariaDB [db7]> alter table libaudit drop foreign key libaudit\_ibfk\_1;

Query OK, 2 rows affected (0.09 sec)

Records: 2 Duplicates: 0 Warnings: 0

MariaDB [db7]> delete from library where b\_id=101;

Query OK, 1 row affected (0.01 sec)

MariaDB [db7]> select \* from libaudit;

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

| b\_id | b\_name | cost | author | publisher | operation |

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

| 102 | SQL | 500 | Khorth | MGH | Updated |

| 102 | SQL | 1000 | Khorth | MGH | Updated |

| 101 | DBMS | 2000 | Korth | Tecnical | Deleted |

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

3 rows in set (0.00 sec)

MariaDB [db7]> create table count1(book\_count int(10));

Query OK, 0 rows affected (0.05 sec)

MariaDB [db7]> create TRIGGER TRI\_insert after insert on library for each row insert into count1 values( select count(\*) from libary);ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'select count(\*) from libary)' at line 1

MariaDB [db7]> delimiter //

MariaDB [db7]> create TRIGGER TRI\_insert after insert on library for each row update count1 set book\_count=book\_count+1; //

Query OK, 0 rows affected (0.07 sec)

MariaDB [db7]> insert into count1 values(0); //

Query OK, 1 row affected (0.01 sec)

MariaDB [db7]> delete from library; //

Query OK, 1 row affected (0.02 sec)

MariaDB [db7]> insert into library values(1,'dbms',600,'Korth','pearson'); //

Query OK, 1 row affected (0.02 sec)

MariaDB [db7]> select \* from count1;//

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

| book\_count |

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

| 1 |

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

1 row in set (0.01 sec)

MariaDB [db7]> insert into library values(2,'dbms',600,'Korth','pearson'); //

Query OK, 1 row affected (0.01 sec)

MariaDB [db7]> select \* from count1;

-> //

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

| book\_count |

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

| 2 |

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

1 row in set (0.00 sec)