//BEFORE UPDATE

create trigger update\_trigger

before update on Library

for each row

insert into Library\_Audit (book\_id,book\_name,date\_of\_issue,bstatus)values (OLD.bid,OLD.bname,OLD.doi,OLD.status);

//AFTER UPDATE

create trigger update\_trigger1

after update on Library

for each row

insert into Library\_Audit values(OLD.bid,OLD.bname,new.bname,OLD.doi,OLD.status);

//before delete

create trigger t1

before delete on Library

for each row

insert into Library\_Audit (book\_id,book\_name,date\_of\_issue,bstatus)values (OLD.bid,OLD.bname,OLD.doi,OLD.status);

//after delete

create trigger t2

after delete on Library

for each row

insert into Library\_Audit (book\_id,book\_name,date\_of\_issue,bstatus)values (OLD.bid,OLD.bname,OLD.doi,OLD.status);

Insert trigger

delimiter //

create trigger t3

before insert

on Library

for each row

begin

if new.bname LIKE '1%' then

signal sqlstate '45000' set message\_text='INCORRECT NAME';

end if;

end

//

MariaDB [31365\_db]> create trigger update\_trigger

-> before update on Library

-> for each row

-> insert into Library\_Audit (book\_id,book\_name,date\_of\_issue,bstatus)values (OLD.bid,OLD.bname,OLD.doi,OLD.status);

Query OK, 0 rows affected (0.069 sec)

MariaDB [31365\_db]> update Library set bname='Othello' where bid=2;

Query OK, 1 row affected (0.036 sec)

Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [31365\_db]> select \* from Library\_Audit;

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

| book\_id | book\_name | new\_bname | date\_of\_issue | bstatus |

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

| 2 | Macbeth | NULL | 2023-09-05 | I |

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

1 row in set (0.001 sec)

MariaDB [31365\_db]> select \* from Library;

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

| bid | bname | doi | status |

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

| 1 | Matilda | 2023-09-10 | I |

| 2 | Othello | 2023-09-05 | I |

| 3 | Harry Potter | 2023-09-05 | I |

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

3 rows in set (0.001 sec)

MariaDB [31365\_db]> create trigger update\_trigger

-> after update on Library

-> for each row

-> insert into Library\_Audit values(OLD.bid,OLD.bname,new.bname,OLD.doi,OLD.status);

ERROR 1359 (HY000): Trigger '31365\_db.update\_trigger' already exists

MariaDB [31365\_db]> create trigger update\_trigger1

-> after update on Library

-> for each row

-> insert into Library\_Audit values(OLD.bid,OLD.bname,new.bname,OLD.doi,OLD.status);

Query OK, 0 rows affected (0.063 sec)

MariaDB [31365\_db]> update Library set bname='Percy' where bid=1;

Query OK, 1 row affected (0.100 sec)

Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [31365\_db]> select \* from Library;

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

| bid | bname | doi | status |

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

| 1 | Percy | 2023-09-10 | I |

| 2 | Othello | 2023-09-05 | I |

| 3 | Harry Potter | 2023-09-05 | I |

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

3 rows in set (0.001 sec)

MariaDB [31365\_db]> select \* from Library\_Audit;

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

| book\_id | book\_name | new\_bname | date\_of\_issue | bstatus |

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

| 2 | Macbeth | NULL | 2023-09-05 | I |

| 1 | Matilda | NULL | 2023-09-10 | I |

| 1 | Matilda | Percy | 2023-09-10 | I |

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

3 rows in set (0.001 sec)







