

```

> create table borrower (rollin int, name varchar(30), dateofissue date, nameofbook varchar(30), status char(10));
Query OK, 0 rows affected (0.05 sec)

> insert borrower values (101, 'abc', '2017-07-16', 'dbms', 'r'), (102, 'abc1', '2017-07-16', 'cn', 'i'),
(103, 'abc3', '2017-07-18', 'toc', 'i'), (104, 'abc4', '2017-07-20', 'ds', 'i'), (105, 'abc5', '2017-07-23', 'daa',
'r'), (106, 'nisha', '2017-08-10', 'splm', 'r' );
Query OK, 6 rows affected (0.01 sec)
Records: 6 Duplicates: 0 Warnings: 0

> create table library_audit(rollin int, name char(10), dateofissue date,
-> nameofbook char(10), status char, ts timestamp);
Query OK, 0 rows affected (0.04 sec)

> -- After INSERT Trigger
> delimiter //

> create table borrower (rollin int, name varchar(30), dateofissue date, nameofbook varchar(30), status char(10));
Query OK, 0 rows affected (0.05 sec)

> insert borrower values (101, 'abc', '2017-07-16', 'dbms', 'r'), (102, 'abc1', '2017-07-16', 'cn', 'i'),
(103, 'abc3', '2017-07-18', 'toc', 'i'), (104, 'abc4', '2017-07-20', 'ds', 'i'), (105, 'abc5', '2017-07-23', 'daa',
'r'), (106, 'nisha', '2017-08-10', 'splm', 'r' );
Query OK, 6 rows affected (0.01 sec)
Records: 6 Duplicates: 0 Warnings: 0

> create table library_audit(rollin int, name char(10), dateofissue date,
-> nameofbook char(10), status char, ts timestamp);
Query OK, 0 rows affected (0.04 sec)

> -- After INSERT Trigger
> delimiter //

> create trigger after_insert after insert on borrower for each row
-> begin
-> insert into library_audit values(new.rollin, new.name, new.dateofissue,
-> new.nameofbook, new.status, current_timestamp);
-> end;
-> //
Query OK, 0 rows affected (0.08 sec)

> select * from borrower //
+-----+-----+-----+-----+-----+
| rollin | name  | dateofissue | nameofbook | status |
+-----+-----+-----+-----+-----+
| 101    | abc   | 2017-07-16  | dbms       | r      |
| 102    | abc1  | 2017-07-16  | cn         | i      |
| 103    | abc3  | 2017-07-18  | toc        | i      |
| 104    | abc4  | 2017-07-20  | ds         | i      |
| 105    | abc5  | 2017-07-23  | daa        | r      |
| 106    | nisha | 2017-08-10  | splm       | r      |
+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

> select * from library_audit //
Empty set (0.00 sec)

> insert into borrower values(107, 'ada', '2017-08-10', 'dbms', 'i') //
Query OK, 1 row affected (0.02 sec)

> select * from borrower //
+-----+-----+-----+-----+-----+
| rollin | name  | dateofissue | nameofbook | status |
+-----+-----+-----+-----+-----+
| 101    | abc   | 2017-07-16  | dbms       | r      |
| 102    | abc1  | 2017-07-16  | cn         | i      |
| 103    | abc3  | 2017-07-18  | toc        | i      |
| 104    | abc4  | 2017-07-20  | ds         | i      |
| 105    | abc5  | 2017-07-23  | daa        | r      |
| 106    | nisha | 2017-08-10  | splm       | r      |
| 107    | ada   | 2017-08-10  | dbms       | i      |
+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)

> select * from library_audit //
+-----+-----+-----+-----+-----+-----+
| rollin | name  | dateofissue | nameofbook | status | ts              |
+-----+-----+-----+-----+-----+-----+
| 107    | ada   | 2017-08-10  | dbms       | i      | 2017-09-19 05:24:57 |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

>
>
> -- After DELETE Trigger
> create trigger after_delete after delete on borrower for each row
-> begin

```

```

-> insert into library_audit values(old.rollin, old.name, old.dateofissue,
-> old.nameofbook, old.status, current_timestamp());
-> end ;
-> //
Query OK, 0 rows affected (0.08 sec)

```

```

> select * from borrower //
+-----+-----+-----+-----+-----+
| rollin | name  | dateofissue | nameofbook | status |
+-----+-----+-----+-----+-----+
| 101    | abc   | 2017-07-16  | dbms       | r      |
| 102    | abc1  | 2017-07-16  | cn         | i      |
| 103    | abc3  | 2017-07-18  | toc        | i      |
| 104    | abc4  | 2017-07-20  | ds         | i      |
| 105    | abc5  | 2017-07-23  | daa        | r      |
| 106    | nisha | 2017-08-10  | splm       | r      |
| 107    | ada   | 2017-08-10  | dbms       | i      |
+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)

```

```

> select * from library_audit //
+-----+-----+-----+-----+-----+-----+
| rollin | name  | dateofissue | nameofbook | status | ts          |
+-----+-----+-----+-----+-----+-----+
| 107    | ada   | 2017-08-10  | dbms       | i      | 2017-09-19 05:24:57 |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

```

```

> delete from borrower where rollin = 105 //
Query OK, 1 row affected (0.02 sec)

```

```

> select * from borrower //
+-----+-----+-----+-----+-----+
| rollin | name  | dateofissue | nameofbook | status |
+-----+-----+-----+-----+-----+
| 101    | abc   | 2017-07-16  | dbms       | r      |
| 102    | abc1  | 2017-07-16  | cn         | i      |
| 103    | abc3  | 2017-07-18  | toc        | i      |
| 104    | abc4  | 2017-07-20  | ds         | i      |
| 106    | nisha | 2017-08-10  | splm       | r      |
| 107    | ada   | 2017-08-10  | dbms       | i      |
+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

```

```

> select * from library_audit //
+-----+-----+-----+-----+-----+-----+
| rollin | name  | dateofissue | nameofbook | status | ts          |
+-----+-----+-----+-----+-----+-----+
| 107    | ada   | 2017-08-10  | dbms       | i      | 2017-09-19 05:24:57 |
| 105    | abc5  | 2017-07-23  | daa        | r      | 2017-09-19 05:26:51 |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

```

```

> -- After UPDATE Trigger
> create trigger after_update after update on borrower for each row
-> begin
-> insert into library_audit values(new.rollin, new.name, new.dateofissue,
-> new.nameofbook, new.status, current_timestamp());
-> end ;
-> //
Query OK, 0 rows affected (0.08 sec)

```

```

> select * from borrower //
+-----+-----+-----+-----+-----+
| rollin | name  | dateofissue | nameofbook | status |
+-----+-----+-----+-----+-----+
| 101    | abc   | 2017-07-16  | dbms       | r      |
| 102    | abc1  | 2017-07-16  | cn         | i      |
| 103    | abc3  | 2017-07-18  | toc        | i      |
| 104    | abc4  | 2017-07-20  | ds         | i      |
| 106    | nisha | 2017-08-10  | splm       | r      |
| 107    | ada   | 2017-08-10  | dbms       | i      |
+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

```

```

> select * from library_audit //
+-----+-----+-----+-----+-----+-----+
| rollin | name  | dateofissue | nameofbook | status | ts          |
+-----+-----+-----+-----+-----+-----+
| 107    | ada   | 2017-08-10  | dbms       | i      | 2017-09-19 05:24:57 |
| 105    | abc5  | 2017-07-23  | daa        | r      | 2017-09-19 05:26:51 |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

```

```
> update borrower set status='r' where borrower.rollin=104
-> //
```

```
Query OK, 1 row affected (0.04 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
> select * from borrower //
```

rollin	name	dateofissue	nameofbook	status
101	abc	2017-07-16	dbms	r
102	abc1	2017-07-16	cn	i
103	abc3	2017-07-18	toc	i
104	abc4	2017-07-20	ds	r
106	nisha	2017-08-10	splm	r
107	ada	2017-08-10	dbms	i

6 rows in set (0.00 sec)

```
> select * from library_audit //
```

rollin	name	dateofissue	nameofbook	status	ts
107	ada	2017-08-10	dbms	i	2017-09-19 05:24:57
105	abc5	2017-07-23	daa	r	2017-09-19 05:26:51
104	abc4	2017-07-20	ds	r	2017-09-19 05:28:10

3 rows in set (0.00 sec)