

Practical-7

```
mysql> create table borrower (rollin int, name varchar(30), dateofissue date, nameofbook  
varchar(30), status char(10));
```

Query OK, 0 rows affected (0.05 sec)

```
mysql> insert borrower values
```

```
-> (101, 'Aniket', '2025-07-16', 'dbms', 'r'),  
-> (102, 'Sneha', '2025-07-16', 'cn', 'i'),  
-> (103, 'Amit', '2025-07-18', 'toc', 'i'),  
-> (104, 'Priya', '2025-07-20', 'ds', 'i'),  
-> (105, 'Vikas', '2025-07-23', 'daa', 'r'),  
-> (106, 'Nisha', '2025-08-10', 'splm', 'r');
```

Query OK, 6 rows affected (0.01 sec)

Records: 6 Duplicates: 0 Warnings: 0

```
mysql> 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)

```
mysql> delimiter //
```

```
mysql> 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)

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

rollin	name	dateofissue	nameofbook	status
101	Aniket	2025-07-16	dbms	r
102	Sneha	2025-07-16	cn	i
103	Amit	2025-07-18	toc	i
104	Priya	2025-07-20	ds	i
105	Vikas	2025-07-23	daa	r

```
| 106 | Nisha | 2025-08-10 | splm | r |
+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

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

```
mysql> insert into borrower values(107, 'Sanket', '2025-08-10', 'dbms', 'i') //
Query OK, 1 row affected (0.02 sec)
```

```
mysql> select * from borrower //
+-----+-----+-----+-----+
| rollin | name | dateofissue | nameofbook | status |
+-----+-----+-----+-----+
| 101 | Aniket | 2025-07-16 | dbms | r |
| 102 | Sneha | 2025-07-16 | cn | i |
| 103 | Amit | 2025-07-18 | toc | i |
| 104 | Priya | 2025-07-20 | ds | i |
| 105 | Vikas | 2025-07-23 | daa | r |
| 106 | Nisha | 2025-08-10 | splm | r |
| 107 | Sanket | 2025-08-10 | dbms | i |
+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

```
mysql> select * from library_audit //
+-----+-----+-----+-----+-----+
| rollin | name | dateofissue | nameofbook | status | ts |
+-----+-----+-----+-----+-----+
| 107 | Sanket | 2025-08-10 | dbms | i | 2025-10-27 05:24:57 |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> 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)

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

```
mysql> select * from borrower //
+-----+-----+-----+-----+
| rollin | name | dateofissue | nameofbook | status |
+-----+-----+-----+-----+
```

```

+-----+-----+-----+-----+-----+
| 101 | Aniket | 2025-07-16 | dbms   | r   |
| 102 | Sneha  | 2025-07-16 | cn     | i   |
| 103 | Amit   | 2025-07-18 | toc    | i   |
| 104 | Priya  | 2025-07-20 | ds     | r   |
| 106 | Nisha  | 2025-08-10 | splm   | r   |
| 107 | Sanket | 2025-08-10 | dbms   | i   |
+-----+-----+-----+-----+-----+

```

6 rows in set (0.00 sec)

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

```

+-----+-----+-----+-----+-----+-----+
| rollin | name  | dateofissue | nameofbook | status | ts              |
+-----+-----+-----+-----+-----+-----+
| 107 | Sanket | 2025-08-10 | dbms   | i   | 2025-10-27 05:24:57 |
| 105 | Vikas  | 2025-07-23 | daa    | r   | 2025-10-27 05:26:51 |
+-----+-----+-----+-----+-----+-----+

```

2 rows in set (0.00 sec)

```
mysql> 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)

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

Query OK, 1 row affected (0.04 sec)

Rows matched: 1 Changed: 1 Warnings: 0

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

```

+-----+-----+-----+-----+-----+
| rollin | name  | dateofissue | nameofbook | status |
+-----+-----+-----+-----+-----+
| 101 | Aniket | 2025-07-16 | dbms   | r   |
| 102 | Sneha  | 2025-07-16 | cn     | i   |
| 103 | Amit   | 2025-07-18 | toc    | i   |
| 104 | Priya  | 2025-07-20 | ds     | r   |
| 106 | Nisha  | 2025-08-10 | splm   | r   |
| 107 | Sanket | 2025-08-10 | dbms   | i   |
+-----+-----+-----+-----+-----+

```

6 rows in set (0.00 sec)

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

```

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

```

rollin	name	dateofissue	nameofbook	status	ts
107	Sanket	2025-08-10	dbms	i	2025-10-27 05:24:57
105	Vikas	2025-07-23	daa	r	2025-10-27 05:26:51
104	Priya	2025-07-20	ds	r	2025-10-27 05:28:10

3 rows in set (0.00 sec)