```
***Write a database trigger on Library table***
---create Borrower table---
mysql> create table borrower (rollin int, name varchar(30), dateofissue date,
nameofbook varchar(30), status char(10));
Query OK, 0 rows affected (0.13 sec)
mysql>
mysql> insert borrower values
     (101, 'aditya', '2022-08-16', 'dbms', 'r'), (102, 'Anurag', '2022-08-26', 'toc', 'i'), (103, 'ketan', '2022-08-27', 'cn', 'i'), (104, 'rahul', '2022-09-10', 'ds', 'i'),
      (105, 'shrihari', '2022-08-16', 'iot', 'r'),
      (106, 'aryan', '2022-08-26', 'spm', 'r');
Query OK, 6 rows affected (0.17 sec)
Records: 6 Duplicates: 0 Warnings: 0
mysql> select * from borrower;
+----+
+----+----+----+-----+

    101 | aditya
    | 2022-08-16 | dbms | r

    102 | anurag
    | 2022-08-26 | toc | i

    103 | ketan | 2022-08-27 | cn | i

    104 | rahul | 2022-09-10 | ds | i

      104 | rahul
      | 2022-09-10 | ds
      | i

      105 | shrihari
      | 2022-08-16 | iot
      | r

      106 | aryan
      | 2022-08-26 | spm
      | r

+----+----+----+
6 rows in set (0.00 sec)
---create library_audit table---
mysql> create table library_audit(rollin int, name char(10), dateofissue date,
nameofbook char(10), status char, ts timestamp);
Query OK, 0 rows affected (0.14 sec)
mysql> select * from library audit;
Empty set (0.00 sec)
_____
---create trigger for insert---
mysql> delimiter //
mysql>
mysql> create trigger after_insert after insert on borrower for each row
     begin
      insert into library_audit values(new.rollin, new.name, new.dateofissue,
```

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```
end;
   //
Query OK, 0 rows affected (0.12 sec)
_____
mysql> select * from library_audit//
Empty set (0.00 sec)
mysql> insert into borrower values(107, 'harry', '2022-08-27', 'dbms', 'i')//
Query OK, 1 row affected (0.06 sec)
mysql> select * from borrower//
+----+
+----+----+----+----+

    101 | aditya
    2022-08-16 | dbms
    r

    102 | anurag
    2022-08-26 | toc
    i

    103 | ketan
    2022-08-27 | cn
    i

    104 | rahul
    2022-09-10 | ds
    i

                                  | i
                                  | i
   105 | shrihari | 2022-08-16 | iot
                                  l r
   106 | aryan | 2022-08-26 | spm
107 | harry | 2022-08-27 | dbms
                                   | r
7 rows in set (0.00 sec)
mysql> select * from library audit//
+----+
| rollin | name | dateofissue | nameofbook | status | ts
+-----+
| 107 | harry | 2022-08-27 | dbms | i | 2022-10-10 20:12:16 |
+----+
1 row in set (0.00 sec)
_____
---After DELETE Trigge---
mysql> create trigger after_delete after delete on borrower for each row
    insert into library audit values(old.rollin, old.name, old.dateofissue,
old.nameofbook, old.status, current_timestamp());
    end;
    //
Query OK, 0 rows affected (0.11 sec)
______
mysql> delete from borrower where rollin =104//
Query OK, 1 row affected (0.12 sec)
mysql> select * from borrower;
+----+
+----+
   101 | aditya | 2022-08-16 | dbms | r
```

new.nameofbook, new.status, current_timestamp);

```
      102 | anurag
      | 2022-08-26 | toc
      | i

      103 | ketan
      | 2022-08-27 | cn
      | i

      105 | rahul
      | 2022-08-16 | iot
      | r

    106 | shrihari | 2022-08-26 | spm
                                              | r
    107 | harry | 2022-08-27 | dbms | i
+----+
6 rows in set (0.00 sec)
mysql> select * from library_audit//
+-----+
| rollin | name | dateofissue | nameofbook | status | ts
+----+

      107 | harry | 2022-08-27 | dbms
      | i
      | 2022-10-10 20:12:16 |

      104 | rahul | 2022-09-10 | ds
      | i
      | 2022-10-10 20:15:57 |

+----+
2 rows in set (0.00 sec)
_____
---After UPDATE Trigger---
mysql> create trigger after_update after update on borrower for each row
      insert into library audit values(old.rollin, old.name, old.dateofissue,
old.nameofbook, old.status, current_timestamp());
     end;
      //
Query OK, 0 rows affected (0.03 sec)
mysql> update borrower set status='r' where rollin=102//
Query OK, 1 row affected (0.11 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from borrower//
+----+
+----+

    101 | aditya
    2022-08-16 | dbms | r

    102 | anurag
    2022-08-26 | toc | r

    103 | ketan | 2022-08-27 | cn | i

    105 | shrihari | 2022-08-16 | iot | r

    106 | aryan | 2022-08-26 | spm | r

    107 | barry | 2022-08-27 | dbms | r

   107 | harry | 2022-08-27 | dbms | i
+----+
6 rows in set (0.00 sec)
mysql> select * from library_audit//
+----+

      107 | harry
      2022-08-27 | dbms
      i
      2022-10-10 20:12:16 |

      104 | rahul
      2022-09-10 | ds
      i
      2022-10-10 20:15:57 |

      102 | anurag
      2022-08-26 | toc
      i
      2022-10-10 20:20:17 |
```

3 rows in set (0.00 sec)

mysql> update borrower set status='i' where rollin=105//
Query OK, 1 row affected (1.28 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from borrower//

rollin	name	dateofissue	nameofbook	status
101 102 103 105 106	aditya anurag ketan shrihari aryan harry	2022-08-16 2022-08-26 2022-08-27 2022-08-16 2022-08-26 2022-08-27	dbms toc cn iot spm dbms	r

6 rows in set (0.00 sec)

mysql> select * from library_audit//

	rollin		dateofissue			++ ts
 	107 104 102 105	harry rahul anurag shrihari	2022-08-27 2022-09-10 2022-08-26 2022-08-16	toc	i i r	2022-10-10 20:12:16 2022-10-10 20:15:57 2022-10-10 20:20:17 2022-10-10 20:22:27

4 rows in set (0.00 sec)