## ----- Assignment No .6 -----

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**Roll No**: 142

**Problem Statement :** Database Trigger (All Types: Row level and Statement level triggers, Before and After Triggers). Write a database trigger on Library table. The System should keep track of the records that are being updated or deleted. The old value of updated or deleted records should be added in Library\_Audit table.Frame the problem statement for writing Database Triggers of all types, in-line with above statement. The problem statement should clearly state the requirements

## • Create table borrower

mysql> create table borrower2(roll\_no int,name varchar(20),date\_of\_issue date,book Query OK, 0 rows affected (0.44 sec)

## • Insert Values into table

```
mysql> insert into borrower2 values('1','nick','2018-06-10','wings_of_fire','avaliable','APJ');

Query OK, 1 row affected (0.07 sec)

mysql> insert into borrower2 values('2','mira','2018-05-11','leaves_life','not_avaliable','borwarkar');

Query OK, 1 row affected (0.05 sec)

mysql> insert into borrower2 values('3','rina','2018-02-12','unusal','avaliable','johar');

Query OK, 1 row affected (0.04 sec)

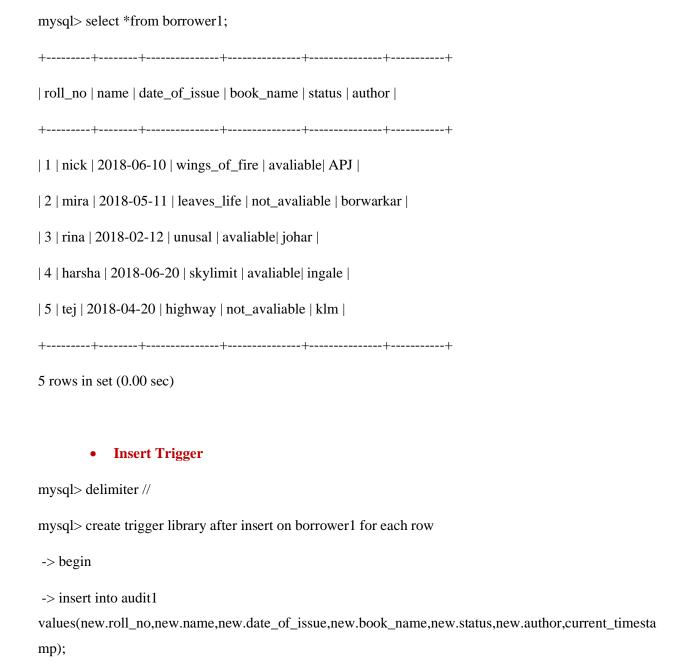
mysql> insert into borrower2 values('4','harsha','2018-06-20','skylimit','avaliable','ingale');

Query OK, 1 row affected (0.05 sec)
```

mysql> insert into borrower2 values('5','tej','2018-04-20','highway','not\_avaliable','klm');

-> end;

->//



```
mysql> insert into borrower1 values('6','xyz','2018-09-
06', 'aaa', 'avaliable', 'xxx');
->//
Query OK, 1 row affected (0.07 sec)
mysql> select * from borrower1;
->//
+-----+
| roll_no | name | date_of_issue | book_name | status | author |
+-----+
| 1 | nick | 2018-06-10 | wings_of_fire | avaliable | APJ |
| 2 | mira | 2018-05-11 | leaves_life | not_avaliable | borwarkar |
| 3 | rina | 2018-02-12 | unusal | avaliable | johar |
| 4 | harsha | 2018-06-20 | skylimit | avaliable | ingale |
| 5 | tej | 2018-04-20 | highway | not_avaliable | klm |
| 6 | xyz | 2018-09-06 | aaa | avaliable | xxx |
+------+
6 \text{ rows in set } (0.00 \text{ sec})
mysql> select * from audit1;
->//
+-----+
| roll_no | name | date_of_issue | book_name | status | author | ts |
+-----+
```

```
| 6 | xyz | 2018-09-06 | aaa | avaliable | xxx| 2018-08-29 15:46:13 |
+-----+
1 row in set (0.00 sec)
        Update Trigger
mysql> delimiter //
mysql> create trigger library1 after update on borrower1 for
each row
-> begin
-> insert into audit1
values(new.roll_no,new.name,new.date_of_issue,new.book_name,ne
w.status,new.author,current_timestamp);
-> end;
->//
Query OK, 0 rows affected (0.08 sec)
mysql> update borrower1 set roll_no='8',book_name='leaf'
where name='xyz';
->//
Query OK, 1 row affected (0.04 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select *from borrower1;
->//
+-----+
| roll_no | name | date_of_issue | book_name | status | author |
+-----+
```

6 rows in set (0.00 sec)