```
mysql> delimiter //
mysql> create trigger before_Library_update
    -> Before update on Library
    -> for each row
    -> Begin
    -> Insert into Library_Audit(book_id,title,author,price,action_type)
    -> values (old.book_id,old.title,old.author,old.price,'UPDATE');
    -> end;
    -> //
Query OK, 0 rows affected (0.02 sec)

mysql> create trigger before_Library_delete Before update on Library for each ro
w Begin Insert into Library_Audit(book_id,title,author,price,action_type) values
 (old.book_id,old.title,old.author,old.price,'Delete'); end;//
Query OK, 0 rows affected (0.01 sec)

mysql> Update Library set price=500.50 where book_id=1;
    -> ^C

^C
mysql> Update Library set price=500.50 where book_id=1;//
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from Library_Audit;
    -> //
+----------+---------+-------+--------+--------+-------------+---------------------+
| audit_id | book_id | title | author | price  | action_type | action_date         |
+----------+---------+-------+--------+--------+-------------+---------------------+
|        1 |       1 | DBS   | Korth  | 500.00 | UPDATE      | 2025-09-23 10:13:29 |
|        2 |       1 | DBS   | Korth  | 500.00 | Delete      | 2025-09-23 10:13:29 |
+----------+---------+-------+--------+--------+-------------+---------------------+
2 rows in set (0.00 sec)
```

```
mysql> select * from Library;
    -> //
+---------+-------+-----------+--------+
| book_id | title | author    | price  |
+---------+-------+-----------+--------+
|       1 | DBS   | Korth     | 500.50 |
|       2 | OS    | Galvin    | 600.00 |
|       3 | CNS   | Tanenbaum | 700.00 |
|       4 | AI    | Russell   | 800.00 |
+---------+-------+-----------+--------+
4 rows in set (0.00 sec)

mysql> Delete from Library where book_id=2;//
Query OK, 1 row affected (0.00 sec)

mysql> select * from Library;
    -> //
+---------+-------+-----------+--------+
| book_id | title | author    | price  |
+---------+-------+-----------+--------+
|       1 | DBS   | Korth     | 500.50 |
|       3 | CNS   | Tanenbaum | 700.00 |
|       4 | AI    | Russell   | 800.00 |
+---------+-------+-----------+--------+
3 rows in set (0.00 sec)

mysql> select * from Library_Audit;
    -> //
+----------+---------+-------+--------+--------+-------------+---------------------+
| audit_id | book_id | title | author | price  | action_type | action_date         |
+----------+---------+-------+--------+--------+-------------+---------------------+
|        1 |       1 | DBS   | Korth  | 500.00 | UPDATE      | 2025-09-23 10:13:29 |
|        2 |       1 | DBS   | Korth  | 500.00 | Delete      | 2025-09-23 10:13:29 |
+----------+---------+-------+--------+--------+-------------+---------------------+
2 rows in set (0.00 sec)
```

```
mysql> use A7;
Database changed
mysql> create table Library(
    -> book_id int ,
    -> title varchar(20),
    -> author varchar(15),
    -> price decimal(5,2));
Query OK, 0 rows affected (0.04 sec)

mysql> drop table Library;
Query OK, 0 rows affected (0.02 sec)

mysql> create table Library( book_id int PRIMARY KEY , title varchar(20), author
 varchar(15), price decimal(5,2));
Query OK, 0 rows affected (0.02 sec)

mysql> insert into Library(book_id,title,author,price) values (1,'DBS','Korth',500.00),(2,'OS','Galvin',600.00),(3,'CNS','Tanenbaum',700.00),(
4,'AI','Russell',800.00);
Query OK, 4 rows affected (0.02 sec)
Records: 4  Duplicates: 0  Warnings: 0

mysql> select * from Library;
+---------+-------+-----------+--------+
| book_id | title | author    | price  |
+---------+-------+-----------+--------+
|       1 | DBS   | Korth     | 500.00 |
|       2 | OS    | Galvin    | 600.00 |
|       3 | CNS   | Tanenbaum | 700.00 |
|       4 | AI    | Russell   | 800.00 |
+---------+-------+-----------+--------+
4 rows in set (0.01 sec)

mysql> create table Library_Audit(audit_id int AUTO_INCREMENT PRIMARY KEY, book_
id int , title varchar(100), author varchar(105), price decimal(8,2),action_type varchar(10),action_date TIMESTAMP DEFAULT CURRENT_TIMESTAMP);
Query OK, 0 rows affected (0.03 sec)
```