

Ex:No:17

Date:

TRIGGER

Aim:

To implement trigger in MySQL.

A trigger or database trigger is a stored program executed automatically to respond to a specific event e.g., insert, update or delete occurred in a table.

Create trigger syntax

```
CREATE TRIGGER trigger_name
trigger_time
trigger_event
ON table_name
FOR EACH ROW
BEGIN
...
END;
```

Program 1 :

Create a trigger in MySQL to log the changes of the EMPLOYEES table with fields ID, Name and Email. Also create a new table named EMPLOYEES_AUDIT to keep the changes of the employee table. Create a BEFORE UPDATE trigger that is invoked before a change is made to the employees table.

```
mysql> DELIMITER //
mysql> CREATE TRIGGER before_student_update
-> BEFORE UPDATE ON student
-> FOR EACH ROW
-> BEGIN
-> INSERT INTO student_audit
-> SET action = 'update',
-> student_id = OLD.id,
-> lastname = OLD.Name,
-> changedat = NOW();
-> END //
Query OK, 0 rows affected (0.06 sec)

mysql> DELIMITER;
mysql> update student set name = 'tony stark_c' where id=3;
Query OK, 1 row affected (0.04 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from student_audit;
+-----+-----+-----+-----+-----+
| id | student_id | lastname | changedat | action |
+-----+-----+-----+-----+-----+
| 1 | 3 | tony stark | 2019-08-12 13:07:44 | update |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

RESULT: Thus the trigger is executed successfully.