

## Ex no : 19

### High level programming extensions -triggers

```
MySQL 8.0 Command Line Cli: x + v
Database changed
mysql> CREATE TABLE Employee (
->   EmpID INT PRIMARY KEY,
->   Name VARCHAR(50),
->   Salary INT
-> );
Query OK, 0 rows affected (0.04 sec)

mysql> CREATE TABLE AuditLog (
->   LogID INT AUTO INCREMENT PRIMARY KEY,
->   Action VARCHAR(20),
->   EmpID INT,
->   Date DATETIME
-> );
Query OK, 0 rows affected (0.04 sec)

mysql> delimiter //
mysql> CREATE TRIGGER EmployeeInsert
-> AFTER INSERT ON Employee
-> FOR EACH ROW
-> BEGIN
->   INSERT INTO AuditLog (Action, EmpID, Date)
->   VALUES ('INSERT', NEW.EmpID, NOW());
-> end //
Query OK, 0 rows affected (0.03 sec)

mysql> delimiter ;
mysql> INSERT INTO Employee (EmpID, Name, Salary) VALUES (1, 'Chaitra', 25000);
Query OK, 1 row affected (0.03 sec)

mysql> ^C
mysql> INSERT INTO Employee (EmpID, Name, Salary) VALUES (2, 'Puttu', 30000);
Query OK, 1 row affected (0.02 sec)

mysql> SELECT * FROM Employee;
+-----+-----+-----+
| EmpID | Name  | Salary |
+-----+-----+-----+
| 1     | Chaitra | 25000  |
| 2     | Puttu  | 30000  |
+-----+-----+-----+
```

```
MySQL 8.0 Command Line Cli: x + v
Query OK, 0 rows affected (0.04 sec)

mysql> delimiter //
mysql> CREATE TRIGGER EmployeeInsert
-> AFTER INSERT ON Employee
-> FOR EACH ROW
-> BEGIN
->   INSERT INTO AuditLog (Action, EmpID, Date)
->   VALUES ('INSERT', NEW.EmpID, NOW());
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Query OK, 0 rows affected (0.03 sec)

mysql> delimiter ;
mysql> INSERT INTO Employee (EmpID, Name, Salary) VALUES (1, 'Chaitra', 25000);
Query OK, 1 row affected (0.03 sec)

mysql> ^C
mysql> INSERT INTO Employee (EmpID, Name, Salary) VALUES (2, 'Puttu', 30000);
Query OK, 1 row affected (0.02 sec)

mysql> SELECT * FROM Employee;
+-----+-----+-----+
| EmpID | Name  | Salary |
+-----+-----+-----+
| 1     | Chaitra | 25000  |
| 2     | Puttu  | 30000  |
+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> SELECT * FROM AuditLog;
+-----+-----+-----+-----+
| LogID | Action | EmpID | Date                |
+-----+-----+-----+-----+
| 1     | INSERT | 1     | 2025-10-07 19:36:19 |
| 2     | INSERT | 2     | 2025-10-07 19:36:35 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> |
```