# 09 - Triggers and Events

Sunday, April 7, 2024 6:16 AM

### # What is Triggers?

A trigger is a stored procedure in a database that automatically invokes whenever a special event in the database occurs.

For example, a trigger can be invoked when a row is inserted into a specified table or when specific table columns are updated in simple words a trigger is a collection of SQL statements with particular names that are stored in system memory. It belongs to a specific class of stored procedures that are automatically invoked in response to database server events. Every trigger has a table attached to it.

# # Why Triggers?

- Keep Data Consist
- Logging & Auditing

### # Syntax and How To Create

# **DELIMITER \$\$** create trigger [trigger\_name] [before | after] {insert | update | delete} on [table\_name] [for each row] new (ins) Lupdate) **BEGIN** END \$\$ **DELIMITER**; **DELIMITER \$\$** payments\_after\_insert **CREATE TRIGGER AFTER INSERT ON payments FOR EACH ROW BEGIN UPDATE** invoices SET payment\_total = payment\_total + NEW.amount WHERE invoice\_id = NEW.invoice\_id; END \$\$ **DELIMITER**;

### **# List All Your Triggers**

> SHOW TRIGGERS

# How To Get Triggers that done on a specific Table?

First try to use this Name conv TableName\_BEFOR/AFTER\_OPERATION(INSERT-UPDATE-DELETE)

SHOW TRIGGERS LIKE '%table\_name'

# # How To Drop Trigger?

> **DROP TRIGGER IF EXISTS** trigger\_name;

# # Events

MySQL Events are tasks that run according to a schedule. Therefore, we sometimes refer to them as scheduled events

DELIMITER \$\$ CREATE EVENT yearly_delete_stale_audit_rows ON SCHEDULE	name best Practice
EVERY 1 YEAR STARTS '2024-01-01' ENDS '2029-01-01' DO BEGIN  Automate Task  END \$\$ DELIMITER;	

You Can See Them USING

- > SHOW EVENTS | SHOW EVENTS LIKE 'event\_name%'
- > DROP EVENTS
- > ALTER