

## Creación de Tabla log mas 2 triggers

The screenshot displays the MySQL Workbench interface for a local instance of MySQL 8.0. The left sidebar shows the 'SCHEMAS' tree with the 'device' database selected. The 'log\_inventario\_equipo' table is visible under the 'Columns' section. The main editor window shows the following SQL script:

```
1 use network_inventory;
2 -- Crear tabla para el control de modificaciones del inventario de dispositivos
3 CREATE TABLE LOG_INVENTARIO_EQUIPO (
4     ID_CHANGE INT unsigned AUTO_INCREMENT PRIMARY KEY,
5     DEV_ID VARCHAR(50),
6     DEV_SERIAL_NO VARCHAR(30),
7     TIPE_CHANGE VARCHAR(30),
8     USER_DB VARCHAR(50),
9     MODIFY_DATE TIMESTAMP NOT NULL
10 );
11
12 -- Registro de log de nuevos dispositivos
13 DELIMITER //
14 CREATE TRIGGER TR_LOG_EQUIPOS_IN
15 AFTER INSERT ON DEVICE
16 FOR EACH ROW
17 BEGIN
18     INSERT INTO LOG_INVENTARIO_EQUIPO (ID_CHANGE, DEV_ID, DEV_SERIAL_NO, TIPE_CHANGE, USER_DB, MODIFY_DATE)
19     VALUES (
20         NULL, NEW.DEV_ID, NEW.DEV_SERIAL_NO, "Insert", SYSTEM_USER(), current_timestamp()
21     );
22 END //
23 DELIMITER ;
24
25 -- Registro de log de eliminacion de dispositivos
26 DELIMITER //
27 CREATE TRIGGER TR_LOG_EQUIPOS_DELETE
28 BEFORE DELETE ON DEVICE
29 FOR EACH ROW
30 BEGIN
31     INSERT INTO LOG_INVENTARIO_EQUIPO ( DEV_ID, DEV_SERIAL_NO, TIPE_CHANGE, USER_DB, MODIFY_DATE)
32     VALUES (
33         OLD.DEV_ID, OLD.DEV_SERIAL_NO, "DELETED", SYSTEM_USER(), current_timestamp()
34     );
35 END //
36 DELIMITER ;
37
```

The bottom panel shows the 'Output' window with the following results:

#	Time	Action	Message
70	22:06:39	INSERT INTO device ('DEV_MOD','DEV_HOST_NAME','DEV_LOCATION','DEV_IP','DEV_SERIAL_NO','DEV_ID') V...	1 row(s) affected
71	22:06:42	SELECT * FROM network_inventory.log_inventario_equipo LIMIT 0, 400	9 row(s) returned

```
-- Prueba de nuevo registro
INSERT INTO device (`DEV_MOD`,`DEV_HOST_NAME`,`DEV_LOCATION`,`DEV_IP`,`DEV_SERIAL_NO`,`DEV_ID`) VALUES ('C9300','test_192.168.20.1','test','192.168.20.1','v5mjo2YS','test_192.168.20.1');
INSERT INTO device (`DEV_MOD`,`DEV_HOST_NAME`,`DEV_LOCATION`,`DEV_IP`,`DEV_SERIAL_NO`,`DEV_ID`) VALUES ('C9300','test_192.168.20.2','test','192.168.20.2','v5Pjo2YS','test_192.168.20.2');
INSERT INTO device (`DEV_MOD`,`DEV_HOST_NAME`,`DEV_LOCATION`,`DEV_IP`,`DEV_SERIAL_NO`,`DEV_ID`) VALUES ('C9300','test_192.168.20.3','test','192.168.20.3','v5PLo2YS','test_192.168.20.3');

-- prueba de eliminacion de registro
DELETE FROM device where DEV_ID = "test_192.168.20.1" ;
DELETE FROM device where DEV_ID = "test_192.168.20.2" ;
DELETE FROM device where DEV_ID = "test_192.168.20.3" ;
```

Pruebas  
realizadas

The screenshot shows a database management interface. On the left, a 'Filter objects' search bar is at the top. Below it is a tree view of database objects. The 'log\_inventario\_equipo' table is expanded, showing its columns: ID\_CHANGE, DEV\_ID, DEV\_SERIAL\_NO, TIPE\_CHANGE, USER\_DB, and MODIFY\_DATE. At the bottom of the interface, there are tabs for 'Administration', 'Schemas', and 'Information', with 'Schemas' currently selected.

On the right, a SQL query is executed: `SELECT * FROM network_inventory.log_inventario_equipo;`. Below the query, a 'Result Grid' displays the data. The grid has columns for ID\_CHANGE, DEV\_ID, DEV\_SERIAL\_NO, TIPE\_CHANGE, USER\_DB, and MODIFY\_DATE. It contains 9 rows of data, including insert and delete operations, and a final row with all NULL values.

ID_CHANGE	DEV_ID	DEV_SERIAL_NO	TIPE_CHANGE	USER_DB	MODIFY_DATE
1	test_192.168.20.1	v5mjo2YS	Insert	root@localhost	2023-01-16 22:02:14
2	test_192.168.20.2	v5Pjo2YS	Insert	root@localhost	2023-01-16 22:02:14
3	test_192.168.20.3	v5PLo2YS	Insert	root@localhost	2023-01-16 22:02:14
4	test_192.168.20.3	v5PLo2YS	DELETED	root@localhost	2023-01-16 22:02:14
5	test_192.168.20.1	v5mjo2YS	DELETED	root@localhost	2023-01-16 22:06:35
6	test_192.168.20.2	v5Pjo2YS	DELETED	root@localhost	2023-01-16 22:06:35
7	test_192.168.20.1	v5mjo2YS	Insert	root@localhost	2023-01-16 22:06:39
8	test_192.168.20.2	v5Pjo2YS	Insert	root@localhost	2023-01-16 22:06:39
9	test_192.168.20.3	v5PLo2YS	Insert	root@localhost	2023-01-16 22:06:39
NULL	NULL	NULL	NULL	NULL	NULL