



INSTITUTO TECNOLÓGICO SUPERIOR DE JEREZ JEREZ DE GARCÍA SALINAS A 15 DE NOVIEMBRE DEL 2019

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CARRERA: INGENIERÍA EN SISTEMAS COMPUTACIONALES

> NOMBRE DE LA MATERIA: TALLER DE BASES DE DATOS

> > QUINTO SEMESTRE

TEMA 5 - SQL PROCEDURAL

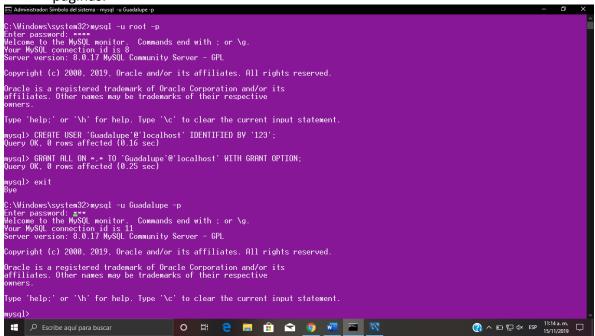
"ACTIVIDAD 2 - PRACTICA TRIGGERS"

DOCENTE: SALVADOR ACEVEDO SANDOVAL

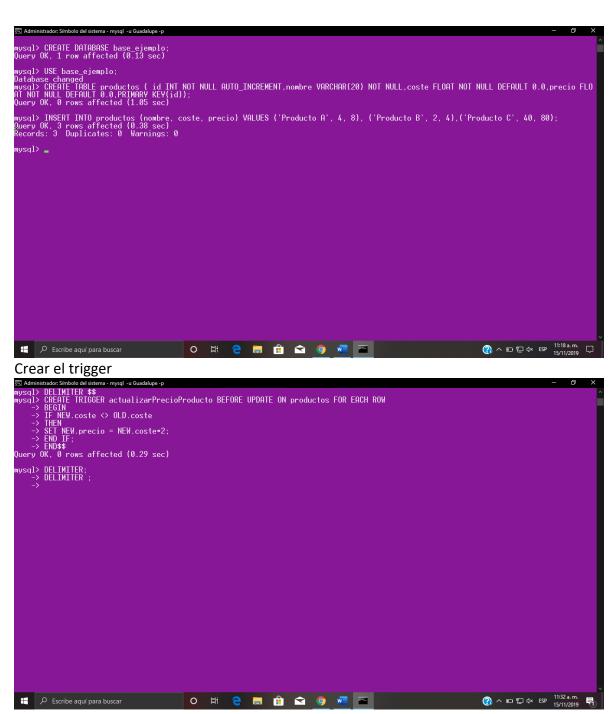
Practica TRIGGERS

Realizar las practicas que se muestran en los siguientes enlaces:

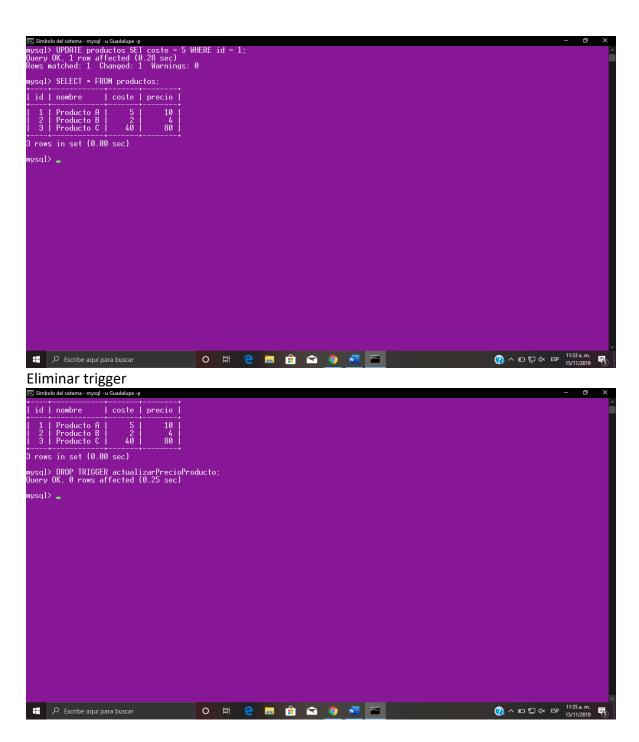
- 1. https://www.neoguias.com/como-crear-y-utilizar-triggers-en-mysql/
- 2. https://examples.javacodegeeks.com/core-java/sql/mysql-triggers-tutorial/
- 3. https://www.geeksforgeeks.org/different-types-of-mysql-triggers-with-examples/
- Para evidenciar correctamente la práctica, deberán crear un usuario con su nombre en MySQL, entrar con dicho usuario y posteriormente realizar los tutoriales de las páginas.



- Deberá ser en l alinea de comandos.
- Las capturas de pantalla deberán contener en la parte superior el nombre de usuario que crearon.
- 1. https://www.neoguias.com/como-crear-y-utilizar-triggers-en-mysql/ Crear base de datos, tabla e insertar registros



Usar el trigger



2. https://examples.javacodegeeks.com/core-java/sql/mysql-triggers-tutorial/

Crear base de datos y tablas

```
™ysql> CREATE DATABASE jcg_schema;
Query OK, 1 row affected (0.20 sec)

mysql> CREATE TABLE Author (id INT PRIMARY KEY, name VARCHAR(50) NOT NULL, post_count INT NOT NULL);

ERROR 1046 (3D000): No database selected

mysql> use jcg_schema;

Database changed

mysql> CREATE TABLE Author (id INT PRIMARY KEY, name VARCHAR(50) NOT NULL, post_count INT NOT NULL);

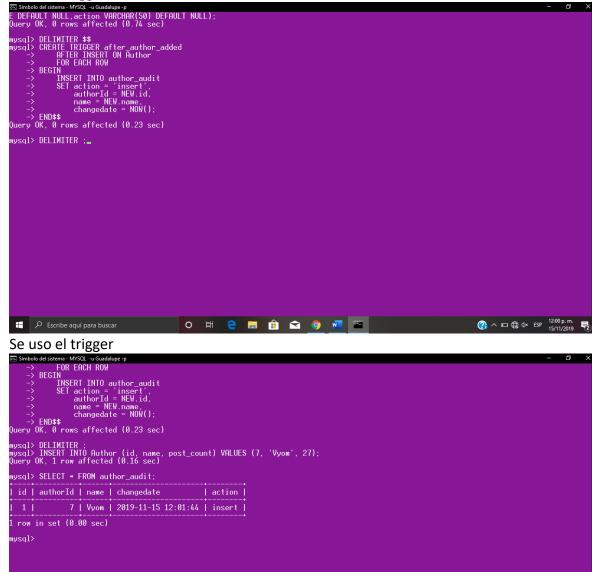
Query OK, 0 rows affected (0.68 sec)

mysql> CREATE TABLE author_audit (id INT AUTO_INCREMENT PRIMARY KEY, authorId INT NOT NULL, name VARCHAR(50) NOT NULL, changedate DATETIM

E DEFAULT NULL, action VARCHAR(50) DEFAULT NULL);

Query OK, 0 rows affected (0.74 sec)
```

Crear el trigger



3. https://www.geeksforgeeks.org/different-types-of-mysql-triggers-with-examples/

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1. Before Update Trigger:

```
Símbolo del sistema - MYSQL -u Guadalupe-p
1 row in set (0.00 sec)
mysql> CREATE DATABASE bd_ejemplo;
Query OK, 1 row affected (0.21 sec)
Query UK, I
mysgl> use bd ejemplo;
Database changed
mysgl> create table customer (acc_no integer primary key,
cust_name varchar(20),
avail_balance decimal);
 mysql> create table mini_statement (acc_no integer,
_-> avail_balance decimal,
_-> foreign key(acc_no) references customer(acc_no) on delete cascade);
Query OK, 0 rows affected (0.70 sec)
 mysql> insert into customer values (1000, "Fanny", 7000);
Query OK, 1 row affected (0.09 sec)
mysql> insert into customer values (1001, "Peter", 12000);
Query OK, 1 row affected (0.22 sec)
 ा Símbolo del sistema - MYSQL -u Guadalupe -p
 Simbolo del sistems - MYSQL -u Guadalupe-p
mysql> DEL IMITER $\frac{\pi}{2}$
mysql> CREATE TRIGGER update_cus

-> BEFORE update on customer

-> FOR EACH ROW

-> BEGIN

-> INSERT INTO mini_statement VALUES (OLD.acc_no, OLD.avail_balance);

-> END$$

Query OK, 0 rows affected (0.25 sec)
 mysql> DELIMITER ;
mysql> update customer set avail_balance = avail_balance + 3000 where acc_no = 1001;
Query OK, 1 row affected (0.27 sec)
Rows matched: 1 Changed: 1 Warnings: 0
 mysql> update customer set avail_balance = avail_balance + 3000 where acc_no = 1000;
Query OK, 1 row affected (0.27 sec)
Rows matched: 1 Changed: 1 Warnings: 0
 mysql> select *from mini_statement;
  acc_no | avail_balance |
   rows in set (0.00 sec)
  ysql>
                                                                                                                                                                                                         (7) △ □ 億 d× ESP 12:12 p. m. 15/11/2019
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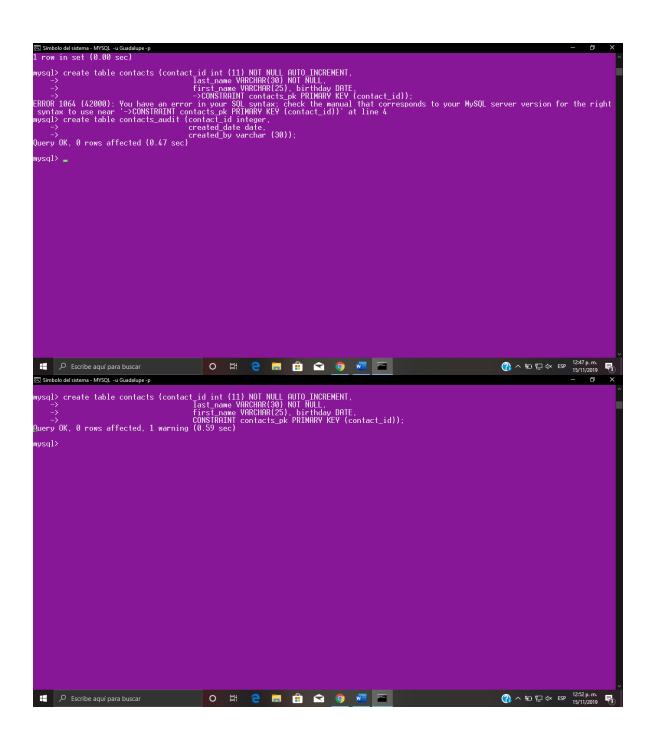
2. After Update Trigger:

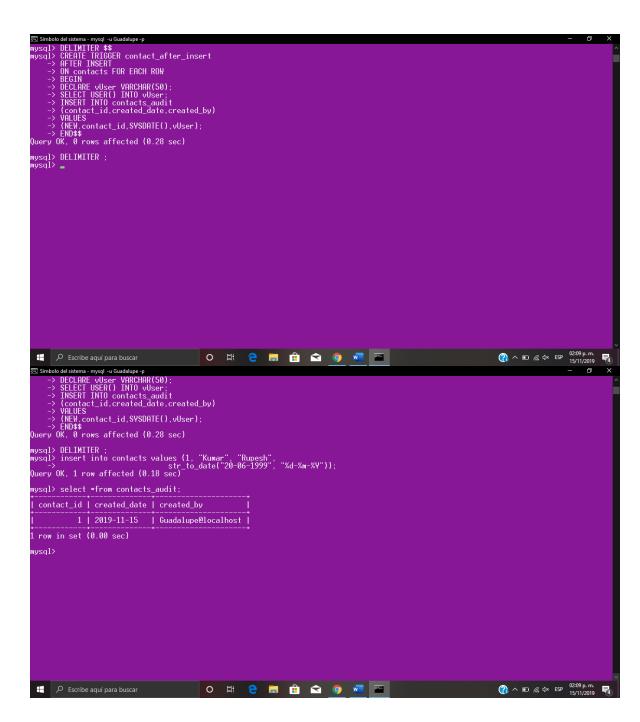
3. Before Insert Trigger

```
Simbolo del sistema - MYSCL -u Guadalupe-p — Greated_by VARC' at line 3

mysql> CREATE TABLE contacts (contact_id INT (11) NOT NULL AUTO_INCREMENT.last_name VARCHAR(30) NOT NULL, first_date VARCHAR(25).birth day DATE. created_date DATE. created_by VARCHAR(30),CONSTRAINT contacts_pk PRIMARY KEY(contact_id));
Query OK, 0 rows affected, 1 warning (0.72 sec)
```

4. After Insert Trigger





5. Before Delete Trigger

```
ञ्च Símbolo del sistema - mysql -u Guadalupe-p
Query OK, 0 rows affected (0.72 sec)
 mysql> create table contacts (contact_id int (11) NOT NULL AUTO_INCREMENT,
-> last_name VARCHAR (30) NOT NULL, first_name VARCHAR (25),
-> birthday DATE, created_date DATE, created_by VARCHAR(30),
-> CONSTRAINT contacts_pk PRIMARY KEY (contact_id));
Query OK, 0 rows affected, 1 warning (0.60 sec)
mysql> create table contacts_audit (contact_id integer, deleted_date date, deleted_by varchar(20));
Ouerv OK. 0 rows affected (0.72 sec)
 nysql> 🕳
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Simblo del sitema - myql -u Guddalupe -p
mysql > DELIMITER $\frac{1}{2}$
mysql > CREATE TRIGGER contacts_before_delete
-> ON contacts FOR EACH ROW
-> BEGIN
-> DECLARE vUser VARCHAR(50);
-> SELECT USER() INTO vUser;
-> INSERT INTO contacts_audit
-> (contact_id, deleted_date, deleted_by)
-> VRLUES
-> (OLD_contact_id, SYSDATE(), vUser);
-> END$$
Query OK, O rows affected (0.29 sec)
mysql> DELIMITER ;
mysql> insert into contacts values (1, "Bond", "Ruskin",
str_to_date ("19-00-1995", "%d-%m-%Y"),
str_to_date ("27-04-2018", "%d-%m-%Y"), "xyz");
mysql> delete from contacts where last_name="Bond";
Query OK, 1 row affected (0.37 sec)
  ysql> select *from contacts_audit;
                 1 | 2019-11-15 | Guadalupe@localhost|
  row in set (0.00 sec)
                                                                                                                                                                                                                          (1) ∧ □ // (1× ESP 02:19 p. m. 15/11/2019
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```

6. After Delete Trigger