INSTITUTO TECNOLÓGICO SUPERIOR DE JEREZ

15 de noviembre del 2019
Jerez, Zac
Ingeniería en sistemas computacionales
Semestre: 5

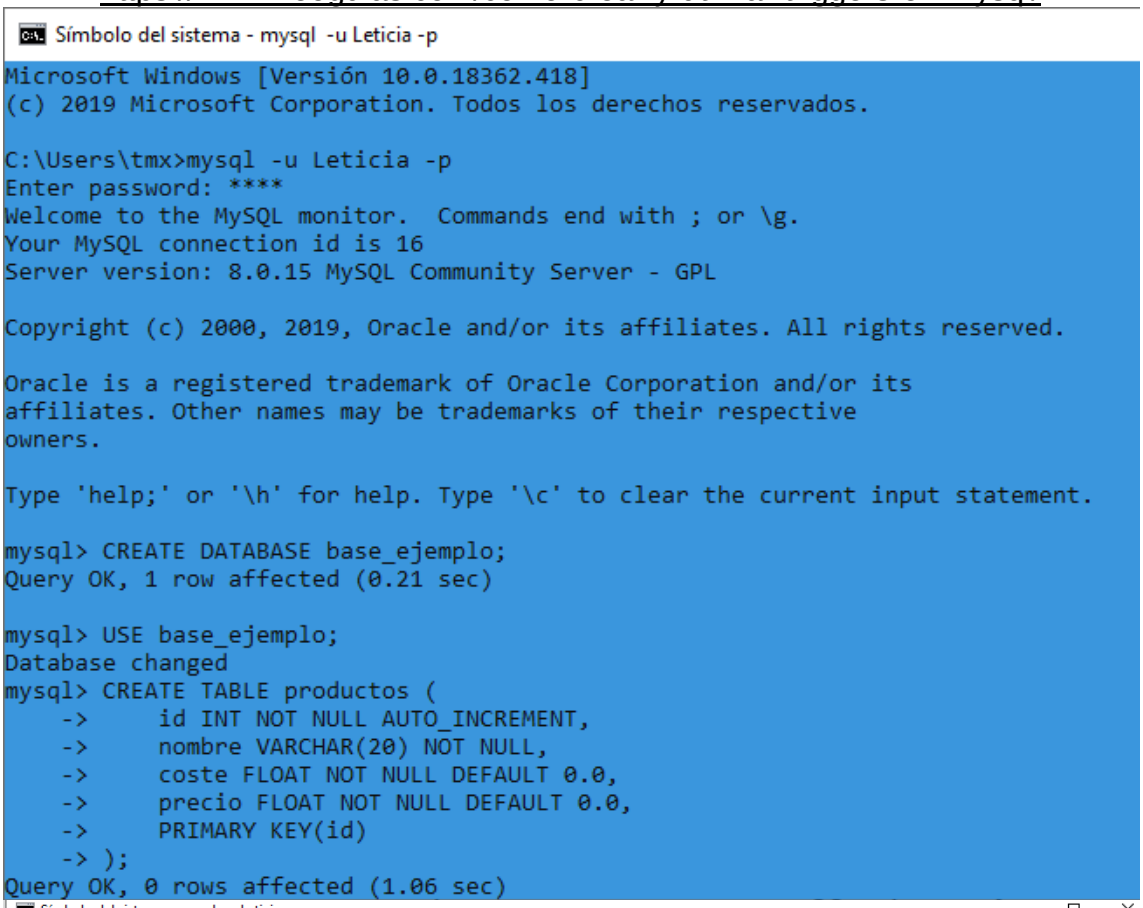
Unidad 5: SQL procedural
Alumna: Leticia carrera venegas
Correo: Letycv25@gmail.com
Num control:S17070155

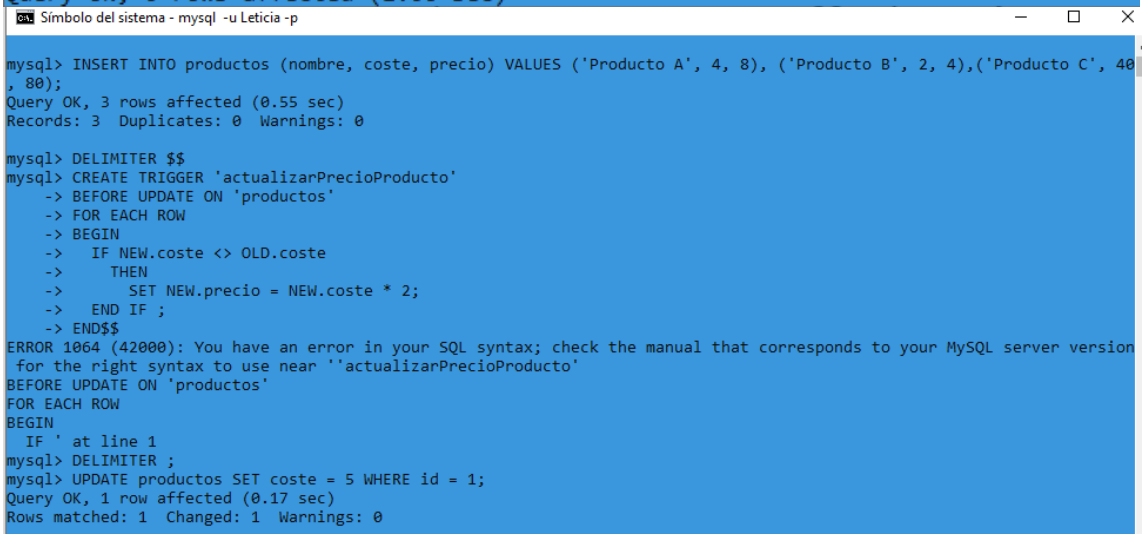
Actividad: Triggers
Taller de bases de datos
Docente: ISC Salvador Acevedo Sandoval

Practica TRIGGERS

Realizar las prácticas que se muestran en lo siguientes enlaces:

1. https://www.neoguias.com/como-crear-y-utilizar-triggers-en-mysql/





```
Símbolo del sistema - mysql  -u Leticia -p

mysql> SELECT * FROM productos;
+----+------------+-------+--------+
| id | nombre     | coste | precio |
+----+------------+-------+--------+
|  1 | Producto A |     5 |      8 |
|  2 | Producto B |     2 |      4 |
|  3 | Producto C |    40 |     80 |
+----+------------+-------+--------+
3 rows in set (0.03 sec)
```

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

```
Símbolo del sistema - mysql  -u Leticia -p
mysql> CREATE TABLE author_audit ( id INT AUTO_INCREMENT PRIMARY KEY,authorId INT NOT NULL,name VARCHAR(50) NOT NULL,cha
ngedate DATETIME DEFAULT NULL,action VARCHAR(50) DEFAULT NULL);
Query OK, 0 rows affected (0.87 sec)
```

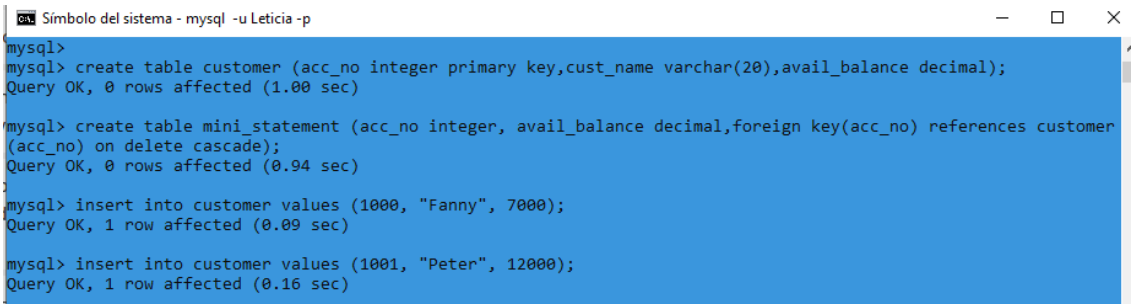
```
Símbolo del sistema - mysql  -u Leticia -p
mysql> delimiter $$
mysql> create trigger after_author_added
    -> after insert on author_audit
    -> for each row
    -> begin
    -> insert into author_audit
    -> set action = 'insert',
    -> authorId = NEW.id,
    -> name = NEW.name,
    -> changedate = NOW();
    -> END $$
Query OK, 0 rows affected (0.46 sec)
```

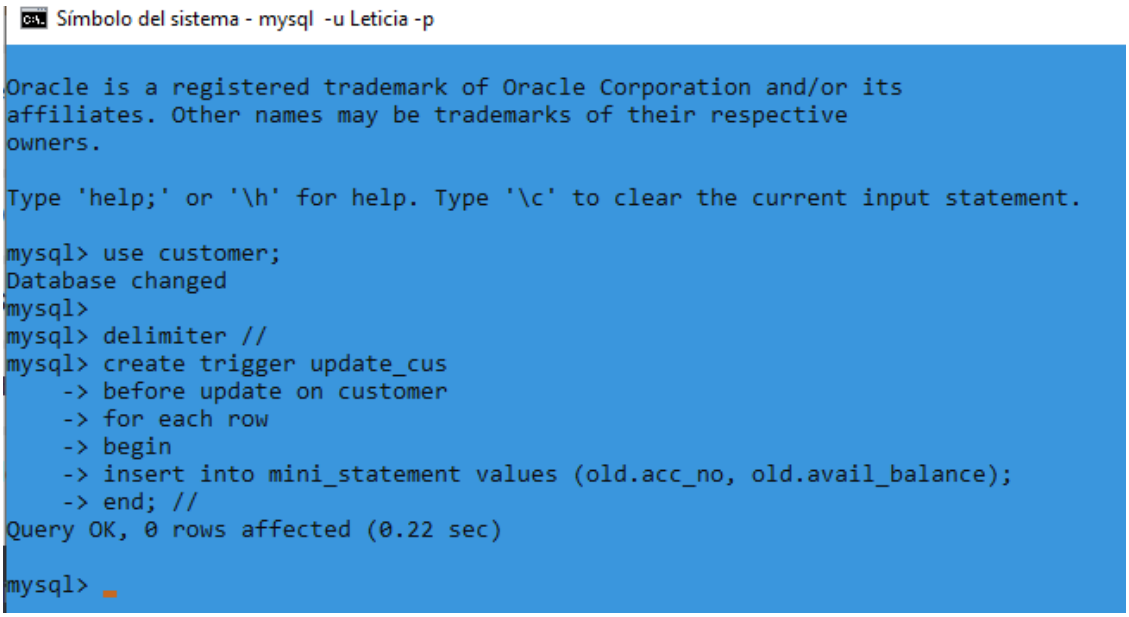
3. https://www.geeksforgeeks.org/different-types-of-mysql-triggers-with-examples/

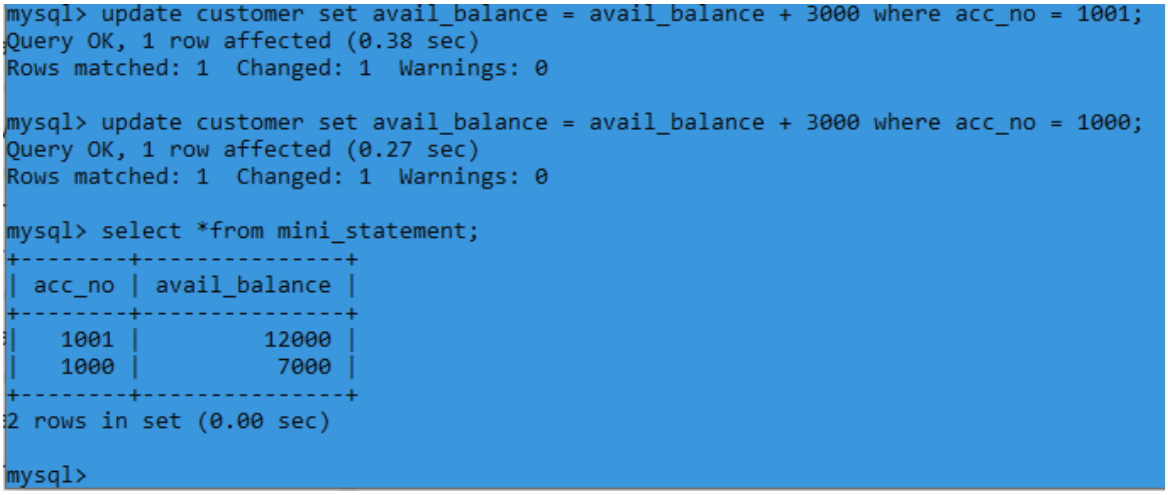
1. **Before Update Trigger:**
   As the name implies, it is a trigger which enacts before an update is

invoked. If we write an update statement, then the actions of the trigger will be performed before the update is implemented.

Example:

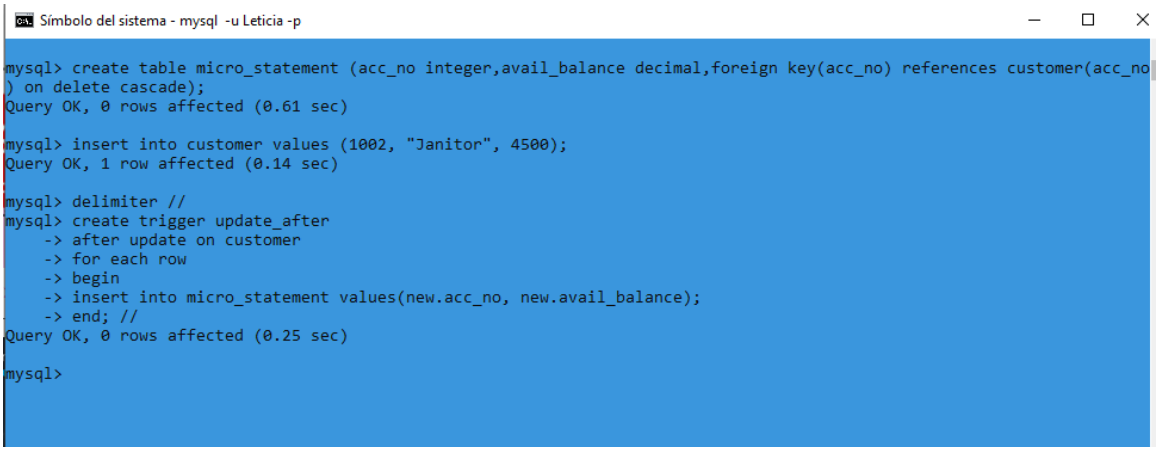


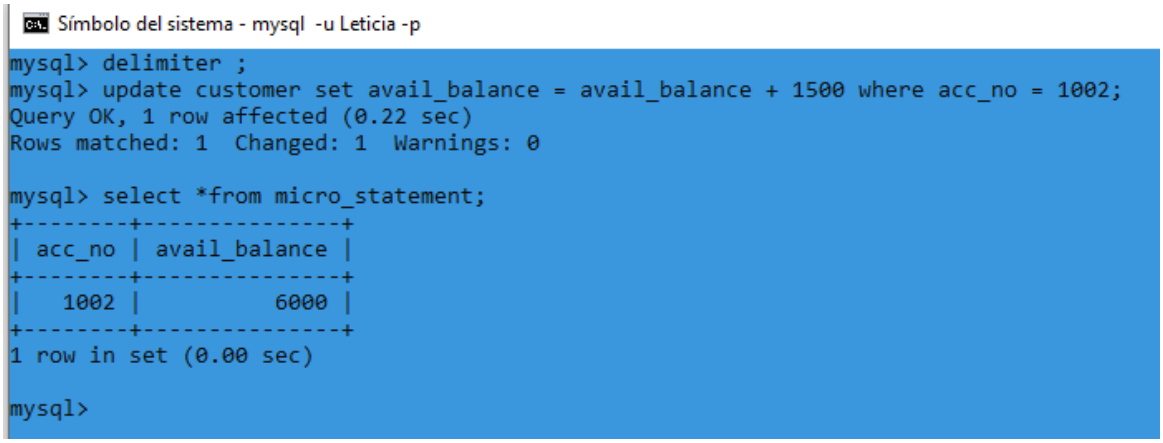




2. After Update Trigger:
As the name implies, this trigger is invoked after an updation occurs. (i.e., it gets implemented after an update statement is executed.).

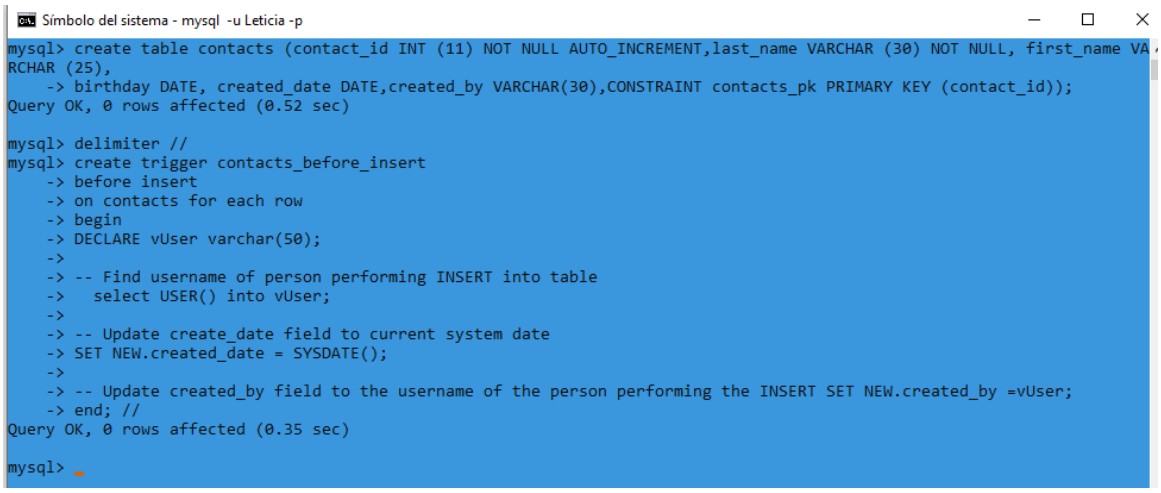
Example:

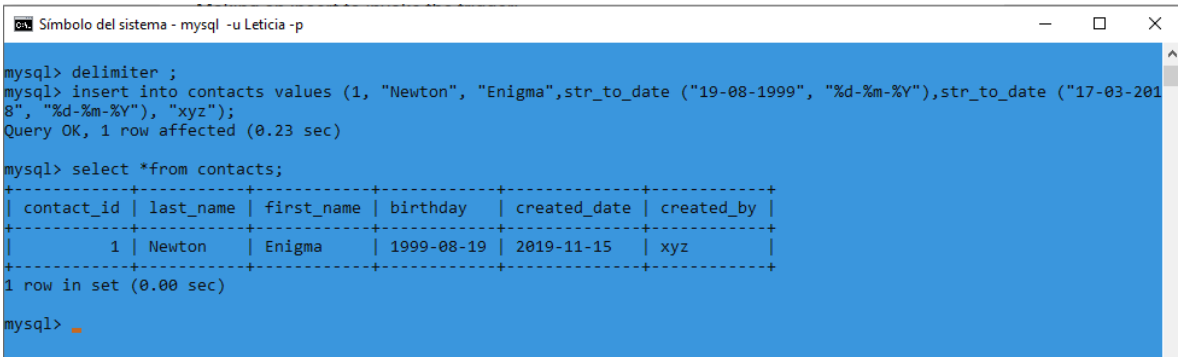




3. Before Insert Trigger:
As the name implies, this trigger is invoked before an insert, or before an insert statement is executed.

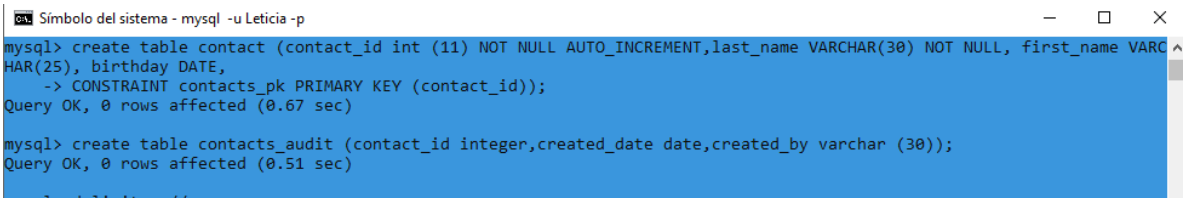
Example:

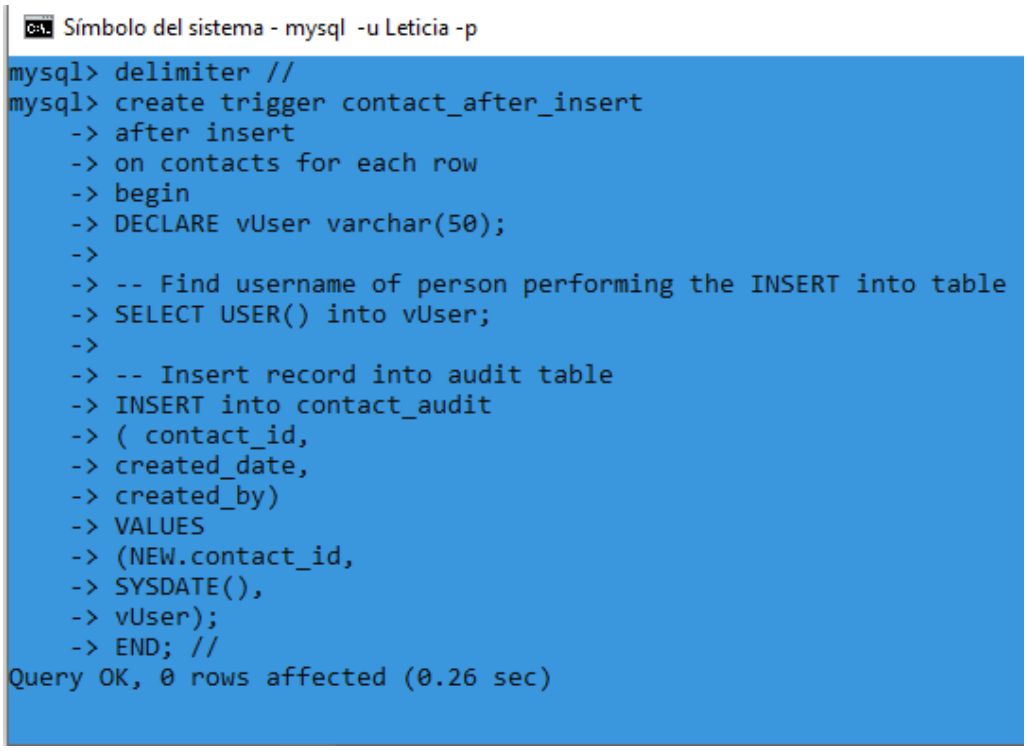




4. After Insert Trigger:
As the name implies, this trigger gets invoked after an insert is implemented.

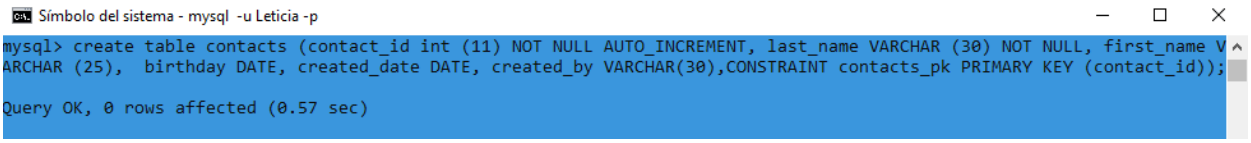
Example:





5. Before Delete Trigger:
As the name implies, this trigger is invoked before a delete occurs, or before deletion statement is implemented.

Example:



Símbolo del sistema - mysql -u Leticia -p

```
mysql> delimiter //
mysql> create trigger contacts_before_delete
    -> before delete
    -> on contacts for each row
    -> begin
    ->
    -> DECLARE vUser varchar(50);
    ->
    -> -- Find username of person performing the DELETE into table
    -> SELECT USER() into vUser;
    ->
    -> -- Insert record into audit table
    -> INSERT into contacts_audit
    -> ( contact_id,
    -> deleted_date,
    -> deleted_by)
    -> VALUES
    -> ( OLD.contact_id,
    -> SYSDATE(),
    -> vUser );
    -> end; //
Query OK, 0 rows affected (0.33 sec)

mysql>
```