Integrantes:

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Creación de la tabla audit_level:

```
CREATE TABLE AUDIT_LEVEL (
AUDIT_DATE TIMESTAMP,
AUDIT_USER VARCHAR(40) not null,
AUDIT_ACTION ENUM('update', 'insert'),
CLAVE_CT VARCHAR(23) NOT NULL,
AP_PATERNO VARCHAR(51) NOT NULL,
AP_MATERNO VARCHAR(51) NOT NULL,
NOMBRE_MAE VARCHAR(51) NOT NULL,
VIEJO_NIVEL INT(11) NOT NULL,
NIVEL INT(11) NOT NULL
);
```

Creación del trigger:

```
DROP TRIGGER IF EXISTS TG_SPNIVEL_AI;

DELIMITER //

CREATE TRIGGER TG_SPNIVEL_AI

BEFORE UPDATE ON CEMABE_PERSONAL

FOR EACH ROW

BEGIN

declare msg varchar(70);

DECLARE OLD_LEVEL INT DEFAULT OLD.NUEVO_NIVEL;

DECLARE NEW_LEVEL INT DEFAULT NEW.LEVEL;

IF OLD_LEVEL <= 7 THEN

IF NEW_LEVEL - OLD_LEVEL != 2 THEN SET NEW.LEVEL = (OLD_LEVEL+2);

END IF;

ELSEIF OLD_LEVEL = 8 THEN

IF NEW_LEVEL - OLD_LEVEL != 1 THEN SET NEW.LEVEL = (OLD_LEVEL+1);

| END IF;

ELSEIF OLD_LEVEL = 9 THEN

IF NEW_LEVEL - OLD_LEVEL != 0 THEN SET NEW.LEVEL = 9;

| END IF;

ELSEIF OLD_LEVEL = 9 THEN

IF NEW_LEVEL - OLD_LEVEL != 0 THEN SET NEW.LEVEL = 9;

| END IF;

END IF;

INSERT INTO AUDIT_LEVEL

(AUDIT_USER, AUDIT_ACTION, CLAVE_CT, AP_PATERNO, AP_MATERNO, NOMBRE_MAE, VIEJO_NIVEL,NIVEL) VALUES

(CURRENT_USER(), 'update', NEW.CLAVE_CT, NEW.AP_PATERNO, NEW.AP_MATERNO,NEW.NOMBRE_MAE, OLD.NUEVO_NIVEL, NEW.LEVEL);

END

//

DELIMITER;
```

Trigger en acción:

```
mysql> select clave_ct, id_persona,nuevo_nivel from cemabe_personal limit 5;
              | id_persona | nuevo_nivel |
 clave_ct
 21DEF0011E1 |
                1339203
                                         9 |
 21ADG0036Q1
                                         8
                1339204
 11DJN2828Y1
                1339205
 11DJN4393Q2
                1339205
 13DPR1518B1
                1339206
 rows in set (0.00 sec)
mysql> update cemabe_perso^C
mysql> update cemabe_personal set level = 6 where clave_ct = '13DPR1518B1' and id_persona = '1339206';
Query OK, 0 rows affected (31.16 sec)
Rows matched: 1 Changed: 0 Warnings: 0
mysql> select clave_ct, id_persona,nuevo_nivel,level from cemabe_personal limit 5;
              | id_persona | nuevo_nivel | level |
 clave_ct
 21DEF0011E1
                1339203
 21ADG0036Q1
                1339204
 11DJN2828Y1
                1339205
 11DJN4393Q2
                1339205
 13DPR1518B1
                1339206
 rows in set (0.00 sec)
```

Tabla Audit