Alumno: Bryan Alan Acosta Báez.

Mi trabajo consiste en jubilar a los maestros que tengan 60 años o mas y que tengan por lo menos una plaza, al jubilar los maestros se les dara el estatus número tres que es un campo que yo cree, solo hay tres tipos de estatus:

- 1. Activo
- 2. Inactivo
- 3. Jubilado

Las plazas de los trabajadores jubilados pasaran a los maestros menores de 40 años y que no tienen plazas asignadas, a ellos se les pondra el estatus de 1.

Los triggres solamente serviran para ver los valores que tenian antes y despues del update los datos de meaestros.

La vista que se creo es para mostrar a todos los jubilados.

Aquí vemos el numero de trabajadores mayores de 60 y que tienen plazas asignadas.

```
mysql> SELECT SUM(NUM_PLAZAS)
-> FROM CEMABE_PERSONAL
-> WHERE NUM_PLAZAS > 0
-> AND EDAD >= 60;
+-----+
| SUM(NUM_PLAZAS) |
+-----+
| 381212 |
```

En este a las personas menors de 40 y que no tienen plazas asignadas.

```
DROP TRIGGER IF EXISTS TG_CONTROLMAESTROS_AU;

CREATE TRIGGER TG_CONTROLMAESTROS_AU

AFTER UPDATE ON CEMABE_PERSONAL

FOR EACH ROW

INSERT INTO AUDIT_MAESTROS_AU

(AUDIT_USER, AUDIT_ACTION, CLAVE_CT, ID_PERSONA, CURP, NP, IMPARTE_CLASES, ESTATUS) VALUES

(CURRENT_USER(), 'update', NEW.CLAVE_CT, NEW.ID_PERSONA, NEW.CURP,
NEW.NUM_PLAZAS, NEW.IMPARTE_CLASES, NEW.ESTATUS );

DROP TRIGGER IF EXISTS TG_CONTROLMAESTROS_BU;
CREATE TRIGGER TG_CONTROLMAESTROS_BU
BEFORE UPDATE ON CEMABE_PERSONAL
FOR EACH ROW
INSERT INTO AUDIT_MAESTROS_BU

(AUDIT_USER, AUDIT_ACTION, CLAVE_CT, ID_PERSONA, CURP, NP, IMPARTE_CLASES, ESTATUS) VALUES

(CURRENT_USER(), 'update', OLD.CLAVE_CT, OLD.ID_PERSONA, OLD.CURP,
OLD.NUM_PLAZAS, OLD.IMPARTE_CLASES, OLD.ESTATUS );
```

Creación de los triggers.

```
DROP TABLE IF EXISTS AUDIT MAESTROS AU;
CREATE TABLE AUDIT MAESTROS AU(
AUDIT DATE TIMESTAMP,
AUDIT USER VARCHAR(40) NOT NULL,
AUDIT_ACTION ENUM('update', 'delete', 'insert'),
CLAVE_CT VARCHAR(23) NOT NULL,
ID_PERSONA VARCHAR(7) NOT NULL,
CURP VARCHAR(24) NOT NULL,
NP INT NOT NULL,
IMPARTE CLASES VARCHAR(1) NOT NULL,
ESTATUS INT NOT NULL
);
DROP TABLE IF EXISTS AUDIT MAESTROS BU;
CREATE TABLE AUDIT MAESTROS BU(
AUDIT_DATE TIMESTAMP,
AUDIT USER VARCHAR (40) NOT NULL,
AUDIT_ACTION ENUM('update', 'delete', 'insert'),
CLAVE_CT VARCHAR(23) NOT NULL,
ID_PERSONA VARCHAR(7) NOT NULL,
CURP VARCHAR(24) NOT NULL,
NP INT NOT NULL,
IMPARTE_CLASES VARCHAR(1) NOT NULL,
ESTATUS INT NOT NULL
);
```

Creación de las tablas Audit.

```
CREATE VIEW MAE_JUBILADOS AS
SELECT CLAVE_CT, ID_PERSONA, CURP, AP_PATERNO, AP_MATERNO, NOMBRE_MAE, ESTATUS, FECHA_NAC, EDAD
FROM CEMABE_PERSONAL
WHERE ESTATUS = 3
GROUP BY AP_PATERNO;
```

Creación de la vista para mostrar la información mas especifica de los jubilados.

	 	+						
NUDIT_DATE	AUDIT_USER	AUDIT_ACTION	CLAVE_CT	ID_PERSONA	CURP	NP	IMPARTE_CLASES	ESTATUS
ULL	root@localhost	update	15DES0075I1	0300037	CAVR540908HVZRCG07	0	0	3
ULL	root@localhost	update	15EES0277D1	0604274	GIJF870310HMCLML03	1	2	1
ULL	root@localhost	update	22DPR0009Z2	0300038	CAVR541218MQTHGF05	0	0	j :
ULL	root@localhost	update	15EES0544J1	0604274	GIJF870310HMCLML03	1	2	1
ULL	root@localhost	update	09DST007701	1503290	SAAR560913HOCNLG04	0	0	
JLL	root@localhost	update	25DJN1834E1	1501794	SAAK910118MSLNPR08	1	2	:
ULL	root@localhost	update	18EJN0350J1	0802298	JANM830830MNTSVR07	1	2	1
ULL	root@localhost	update	19ADG0001M4	0118354	AUMC810222MNLNNR02	1	2	1
ULL	root@localhost	update	05PPR0309L1	0118355	İ	1	2	1
ULL	root@localhost	update	28FUA0002K1	1503291	SAAR561025HTSNLM08	0	0] 3
JLL	root@localhost	update	05PJN0269K1	0118355	İ	1	2	:
ULL	root@localhost	update	13ADG0036H1	1503292	SAAR570505HHGNBL04	0	0	į :
ULL	root@localhost	update	05PES0047K1	0118355	İ	1	2	j :
ULL	root@localhost	update	15DTV010901	1503293	SAAR570720MTSNLS04	0	0	
ULL	root@localhost	update	15EES0990R1	0118798	AUMF821205HQTGNR08	1 1	2	j 1
rows in set	* from audit_maes	ļ ⁻	+	+	+	ļ	+	+
rows in set	* from audit_mae	stros_bu limit :	15; +	+	·	+	+	+
rows in set	* from audit_mae	ļ ⁻	15; +	ID_PERSONA	CURP	+ NP +	+	+
rows in set ql> select JDIT_DATE 	* from audit_maes AUDIT_USER root@localhost	stros_bu limit : AUDIT_ACTION	15; +	 ID_PERSONA 	CURP CAVR540908HVZRCG07	+ NP +	IMPARTE_CLASES	ESTATU
rows in set ql> select JDIT_DATE JLL JLL	* from audit_mae: AUDIT_USER root@localhost root@localhost	stros_bu limit AUDIT_ACTION update update	15; 	ID_PERSONA 0300037 0604274	CURP CAVR540908HVZRCG07 GIJF870310HMCLML03	+ NP + 1 0	IMPARTE_CLASES	+ ESTATU!
rows in set ql> select DATE JLL JLL	* (0.14 sec) * from audit_mae: AUDIT_USER root@localhost root@localhost root@localhost	stros_bu limit : AUDIT_ACTION	15; CLAVE_CT 15DES007511 15EES0277D1 22DPR0009Z2	ID_PERSONA 0300037 0604274 0300038	CURP CAVR540908HVZRCG07 GIJF870310HMCLML03 CAVR541218MQTHGF05	+ NP + 1 0 1	IMPARTE_CLASES	ESTATU:
rows in set ql> select JDIT_DATE JLL JLL	* from audit_mae: AUDIT_USER root@localhost root@localhost root@localhost root@localhost	stros_bu limit AUDIT_ACTION update update update update update	15; 	ID_PERSONA 0300037 0604274 0300038 0604274	CURP CAVR540908HVZRCG07 GIJF870310HMCLML03	+ NP + 1 0 1	IMPARTE_CLASES 2 0 0 0	ESTATU:
rows in seigle properties of the select proper	* (0.14 sec) * from audit_mae: AUDIT_USER root@localhost root@localhost root@localhost root@localhost	stros_bu limit AUDIT_ACTION update update update update update update	15; CLAVE_CT 15DES0075I1 15EES0277D1 22DPR000925 15EES0544J1 09DST0077D1	ID_PERSONA 0300037 0604274 0300038 0604274 1503290	CURP CAVR540908HVZRCG07 GIJF870310HMCLML03 CAVR541218MQTHGF05	+ NP + 1 0 1 0 4	IMPARTE_CLASES 2 0 0 0	ESTATU:
rows in set ql> select JDIT_DATE JLL JLL JLL JLL JLL JLL JLL	* from audit_mae: AUDIT_USER root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost	stros_bu limit AUDIT_ACTION update update update update update update update update update	15; CLAVE_CT 150ES007511 15EES027701 22DPR0009Z2 15EES054401 09DST007701 25DJN1834E1	ID_PERSONA 0300037 0604274 0300038 0604274 1503290 1501794	CURP CAVR540908HVZRCG07 GJJF870310HMCLML03 GJJF870310HMCLML03	+ NP + 1 0 1 0 4 0	IMPARTE_CLASES 2 0 0 0 0 0	ESTATUS
rows in set ql> select JDIT_DATE JLL JLL JLL JLL JLL JLL JLL J	* from audit_mae: AUDIT_USER root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost	stros_bu limit AUDIT_ACTION update update update update update update update update update update	15; CLAVE_CT 150ES007511 15EES0277D1 220PR000922 15EES0544J1 090ST007701 250JN1834E1 18EJN0350J1	ID_PERSONA 0300037 0604274 0300038 0604274 1503290 1501794 0802298	CURP CAVR540908HVZRCG07 GTJF870310HMCLML03 CAVR541218MQTHGF05 GTJF870310HMCLML03 SAAR560913HOCNLG04	+ NP + 1 0 1 0 4 0	IMPARTE_CLASES 2 0 0 0 0 0 1	ESTATU:
rows in set ql> select JDIT_DATE JLL JLL JLL JLL JLL JLL JLL J	* from audit_mae: AUDIT_USER root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost	AUDIT_ACTION update update update update update update update update update update	15; CLAVE_CT 15DES007511 15EES027701 22DPR000922 15EES054411 09DST007701 25DJN1834E1 18EJN035011 19ADG0001M4	ID_PERSONA 0300037 0604274 0300038 0604274 1503290 1501794 0802298 0118354	CURP CAVR540908HVZRCG07 GIJF870310HMCLML03 CAVR541218MQTHGF05 GIJF870310HMCLML03 SAAR560913HOCNLG04 SAAK510118MSLNPR08	+ NP + 1 0 1 0 4 0 0	IMPARTE_CLASES 2 0 0 0 0 1 0 0	ESTATU
Pows in set of the control of the co	* from audit_mae: AUDIT_USER root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost	AUDIT_ACTION update update update update update update update update update update update update	15; CLAVE_CT 150ES007511 15EES027701 22DPR0009Z2 15EES054431 090ST0067701 25DJN1834E1 18EJN035031 19ADG0001M4 05PPR0309L1	ID_PERSONA 0300037 0604274 0300038 0604274 1503290 1501794 0802298 0118354 0118355	CURP CAVR540908HVZRCG07 G1JF870310HMCLML03 CAVR541218MQTHGF05 G1JF870310HMCLML03 SAAR560913H0CNLG04 SAAK910118MSLNPR08 JANM830830MMTSVR07 AUMC810222MNLNNR02	+ NP + 1 0 1 0 4 0 0 0	IMPARTE_CLASES	ESTATU
rows in set ql> select DIT_DATE JUL JUL JUL JUL JUL JUL JUL JU	* from audit_mae: AUDIT_USER root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost	stros_bu limit AUDIT_ACTION update update update update update update update update update update update update	15; 	ID_PERSONA 0306037 0604274 0306038 0604274 1503290 1501794 0802298 0118354 0118355 1503291	CURP CAVRS40908HVZRCG07 GIJF870310HMCLML03 CAVRS41218M0TH0F05 GIJF870310HMCLML03 SAAR560913HOCNLG04 SAAK910118MSLNPR08 JANM830830MNTSVR07	+ NP + 1 0 1 0 0 0 0 0	IMPARTE_CLASES 2 0 0 0 0 1 1 0 0 0	ESTATU
rows in set ql> select pll DATE ll ULL JLL JLL JLL JLL JLL JLL JLL	* from audit_mae: AUDIT_USER root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost	AUDIT_ACTION update update update update update update update update update update update update update update update update	15; CLAVE_CT 15DES007511 15EES027701 22DPR000922 15EES054431 09DST007701 25DJN1834E1 18EJN035031 19ADG0001M4 05PPR0330911 28FUA0002K1 05PJN0269K1	ID_PERSONA 0300037 0604274 0300038 0604274 1503290 1501794 0802298 0118354 0118355 1503291 0118355	CURP CAVR540908HVZRCG07 GJJF870310HMCLML03 CAVR541218M0TH0F05 GJJF870310HMCLML03 SAAR550913HOCNLG04 SAAK910118MSLNPR08 JANM830830MNTSVR07 AUMC810222MNLNNR02 SAAR561025HTSNLM08	+ NP + 1 0 1 0 0 0 0 0 0	IMPARTE_CLASES	ESTATU
POWS IN Set of the control of the co	* from audit_mae: AUDIT_USER root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost	AUDIT_ACTION update update update update update update update update update update update update update update update update update update update	15; ***CLAVE_CT ***150ES007511 15EES027701 22DPR000922 15EES054411 090ST007701 25DJN1834E1 18EJN035031 19ADG001M4 05PPR0309L1 28FUA0002K1 05PJN269K1 13ADG0036H1	ID_PERSONA 0300037 0604274 0300038 0604274 1503290 1501794 0802298 0118354 0118355 1503291 0118355 1503292	CURP CAVR540908HVZRCG07 G1JF870310HMCLML03 CAVR541218MQTHGF05 G1JF870310HMCLML03 SAAR560913H0CNLG04 SAAK910118MSLNPR08 JANM830830MMTSVR07 AUMC810222MNLNNR02	+ NP + 1 0 1 0 4 0 0 0 0 1	IMPARTE_CLASES	ESTATU
POWS IN Set of the control of the co	* from audit_mae: AUDIT_USER root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost	AUDIT_ACTION update	15; 	ID_PERSONA 0306037 0604274 0306038 0604274 1503290 1501794 0802298 0118355 1503291 0118355 1503292 0118355	CURP CAVR540908HVZRCG07 GIJF870310HMCLML03 CAVR541218MQTH0F05 GIJF870310HMCLML03 SAAR560913HOCNLG04 SAAK910118MSLNPR08 JANM830830MNTSVR07 AUMC810222MNLNNR02 SAAR561025HTSNLM08 SAAR570505HHGNBL04	+ NP + 1 0 1 0 0 0 0 0 0	IMPARTE_CLASES 2 0 0 0 0 1 0 0 2 2 2 2	ESTATU
rows in set	* from audit_mae: AUDIT_USER root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost root@localhost	AUDIT_ACTION update update update update update update update update update update update update update update update update update update update	15; ***CLAVE_CT ***150ES007511 15EES027701 22DPR000922 15EES054411 090ST007701 25DJN1834E1 18EJN035031 19ADG001M4 05PPR0309L1 28FUA0002K1 05PJN269K1 13ADG0036H1	ID_PERSONA 0300037 0604274 0300038 0604274 1503290 1501794 0802298 0118354 0118355 1503291 0118355 1503292	CURP CAVR540908HVZRCG07 GJJF870310HMCLML03 CAVR541218M0TH0F05 GJJF870310HMCLML03 SAAR550913HOCNLG04 SAAK910118MSLNPR08 JANM830830MNTSVR07 AUMC810222MNLNNR02 SAAR561025HTSNLM08	+ NP + 1 0 1 0 4 0 0 0 0 1	IMPARTE_CLASES	ESTATUS ()

Tablas aftery before con los datos de los maestros.

CLAVE_CT	ID_PERSONA	CURP	AP_PATERNO	AP_MATERNO	NOMBRE_MAE	ESTATUS	FECHA_NAC	EDAD
25DST0019P1	0034931	AAPS560224MNTBLC01	ABAD	PLAZA	MARIA DEL SOCORRO	3	24/02/1956	62
31ADG0001H4	0004567	AABE560120MYNBRL06	ABAN	BORGES	ELSY GUADALUPE	3	20/01/1956	63
15DPR0477J2	0013818	AAFI540517HMCBLS02	ABARCA	FLORES	ISMAEL	3	17/05/1954	64
21DES0008V1	0032811	AAPA580926MHGBRG01	ABRAHAM	PEREZ	AGUSTINA	3	26/09/1958	60
15EJN1543H1	0065158	AEOF570205MMCCSL08	ACEVEDO	OSORIO	FELIPA	3	05/02/1957	62
12DJN0594L1	0057751	AEGM510929HGRCNG07	ACEVES	GONZALEZ	MIGUEL	3	29/09/1951	67
14DTV0592A1	0091113	AOCC571122HJCCRR04	ACOSTA	CORONA	CARLOS ESTEBAN	3	22/11/1957	61
09DES0011N1	0033829	AAPH570506HDFDRM09	ADAM	PEREZ	HUMBERTO	3	06/05/1957	61
12DES0099V1	0005629	AABR521028MGRDRS04	ADAME	BARRERA	ROSALINDA	3	28/10/1952	66
21ADG0114D4	0028250	AAML400621HMSDRS04	ADAN	MIRANDA	LUIS	3	21/06/1940	78
28DES0042V2	0111222	AUFA510806HTSGNR02	AGUAYO	FUENTES	ARMANDO	3	06/08/1951	67
21DPR2995S2	0116221	AUJT560412MPLGRR09	AGUILAR	JUAREZ	TERESITA DEL NI!O JESUS	3	12/04/1956	62
28FZP0108A4	0114509	AUHA571005MTSGRL08	AGUILERA	HERNANDEZ	ALEJANDRA	3	05/10/1957	61
19DPR1391G1	0117382	AULO470227HNLGRS08	AGUILLON	LARA	OSCAR HUMBERTO	3	27/02/1947	71
15ADG0009I4	0114510	AUHA581027MDFGRR09	AGUIÑIGA	HERNANDEZ	MARIA ARSELIA	3	27/10/1958	60

Vista de jubilados.

```
DROP PROCEDURE IF EXISTS JUBILAR;
    DELIMITER //
    CREATE PROCEDURE JUBILAR()
   DECLARE NPLAZAS INT;
   DECLARE FIN INT DEFAULT 0;
8 DECLARE VAL_CURP VARCHAR(255);
9 DECLARE VAL_ID_PERSONA VARCHAR(255);
10 DECLARE VAL_CLAVE_CT VARCHAR(255);
    DECLARE counter INT DEFAULT 0;
11
    DECLARE IP VARCHAR(60);
12
13
    DECLARE CP VARCHAR(60);
    DECLARE CT VARCHAR(60);
16 DECLARE CUR CURSOR FOR
   SELECT CURP, ID_PERSONA, CLAVE_CT, cast(NUM_PLAZAS as unsigned)
17
    FROM CEMABE_PERSONAL
   WHERE NUM_PLAZAS > 0
    AND EDAD >= 60
    FOR UPDATE;
22
    DECLARE CONTINUE HANDLER FOR NOT FOUND SET FIN = 1;
24
    OPEN CUR;
    REPEAT
28
    FETCH CUR INTO VAL_CURP, VAL_ID_PERSONA, VAL_CLAVE_CT, NPLAZAS;
    UPDATE CEMABE PERSONAL SET NUM_PLAZAS = 0, estatus = 3, IMPARTE_CLASES=0
    WHERE CURP = VAL_CURP
    AND ID_PERSONA = VAL_ID_PERSONA AND CLAVE_CT=VAL_CLAVE_CT;
```

```
SET COUNTER = NPLAZAS;
my_loop: LOOP

set IP = (SELECT ID_PERSONA FROM CEMABE_PERSONAL WHERE CAST(NUM_PLAZAS AS unsigned) = 0 AND EDAD < 40 LIMIT 1);
set CP = (SELECT CURP FROM CEMABE_PERSONAL WHERE CAST(NUM_PLAZAS AS unsigned) = 0 AND EDAD < 40 LIMIT 1);
set CT = (SELECT CLAVE_CT FROM CEMABE_PERSONAL WHERE CAST(NUM_PLAZAS AS unsigned) = 0 AND EDAD < 40 LIMIT 1);

UPDATE CEMABE_PERSONAL SET NUM_PLAZAS = 1, estatus = 1, IMPARTE_CLASES=2
WHERE CURP = CP AND ID_PERSONA = IP AND CLAVE_CT=CT;

SET counter=COUNTER-1;

IF counter=0 THEN
    LEAVE my_loop;
END IF;

END LOOP my_loop;

UNTIL FIN = 1 END REPEAT;
CLOSE CUR;

END
//
DELIMITER;
```

Creación del trigger.