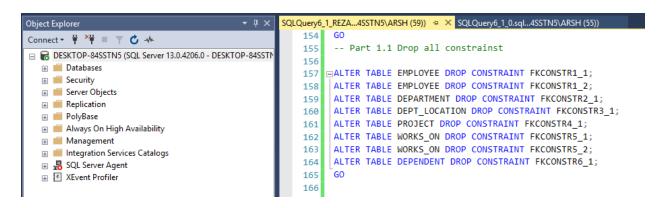
Name: Reza Shisheie

- 1. Write Triggers that implement Referential Integrity for FK Dno of Employee that is named as Constraint EMPDEPTFK in Table Employee as specified in Figure 4.2 in the textbook in the following DDL statements below for Company database that you created for Lab2. (You may keep the all the new tuples inserted in Lab3 and Lab4)
 - 1) Before creating any trigger for this lab, Alter Table to Drop all the PK, FK, Unique Constraints, Cascade, Check options from the Tables Employee and Department for this lab to avoid any possible conflict with a system trigger or any table mutating problem.



```
-- Part 1.1 Drop all constrainst
```

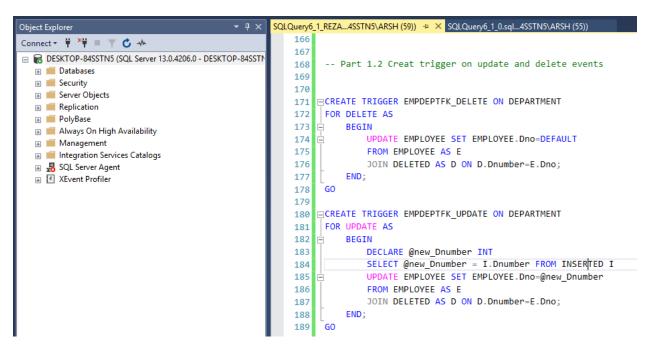
```
ALTER TABLE EMPLOYEE DROP CONSTRAINT FKCONSTR1_1;
ALTER TABLE EMPLOYEE DROP CONSTRAINT FKCONSTR1_2;
ALTER TABLE DEPARTMENT DROP CONSTRAINT FKCONSTR2_1;
ALTER TABLE DEPT_LOCATION DROP CONSTRAINT FKCONSTR3_1;
ALTER TABLE PROJECT DROP CONSTRAINT FKCONSTR4_1;
ALTER TABLE WORKS_ON DROP CONSTRAINT FKCONSTR5_1;
ALTER TABLE WORKS_ON DROP CONSTRAINT FKCONSTR5_2;
ALTER TABLE DEPENDENT DROP CONSTRAINT FKCONSTR6_1;
GO
```

Name: Reza Shisheie

ID: 2708062

2) Write(Create) triggers to implement Constraint EMPDEPTFK in Table Employee based on the following rules as defined in DDL for Employee as in Figure 4.2:

FK Dno of Employee On Delete SET DEFAULT (= 1) and FK Dno of Employee On Update CASCADE of Dnumber PK of Department



-- Part 1.2 Creat trigger on update and delete events

```
CREATE TRIGGER EMPDEPTFK DELETE ON DEPARTMENT
FOR DELETE AS
       BEGIN
              UPDATE EMPLOYEE SET EMPLOYEE.Dno=DEFAULT
              FROM EMPLOYEE AS E
              JOIN DELETED AS D ON D.Dnumber=E.Dno;
       END;
G0
CREATE TRIGGER EMPDEPTFK_UPDATE ON DEPARTMENT
FOR UPDATE AS
       BEGIN
             DECLARE @new Dnumber INT
             SELECT @new Dnumber = I.Dnumber FROM INSERTED I
             UPDATE EMPLOYEE SET EMPLOYEE.Dno=@new Dnumber
             FROM EMPLOYEE AS E
              JOIN DELETED AS D ON D.Dnumber=E.Dno;
       END;
G0
```

Name: Reza Shisheie

ID: 2708062

3) Write (Create) Stored Procedure *SP_Audit_Dept* that inserts all the history of the data of changes by the trigger you created in 1) above into a table *Audit_Dept_Table*. See for the more specific instructions that are given in 2 below.

```
SQLQuery6_1_REZA...4SSTN5\ARSH (59)) → X SQLQuery6_1_0.sql...
Object Explorer
                                                                   JOIN DELETED AS D ON D. Dnumber
                                                     187
Connect ▼ * ♥ ■ ▼ 🖒 - №
                                                               END;
                                                     188

□ R DESKTOP-84SSTN5 (SQL Server 13.0.4206.0 - DESKTOP-84SSTN)

                                                           GO
                                                     189
  190
  Security
                                                          -- Part 1.3 create audit table
                                                     191
  Server Objects
                                                     192 ☐ CREATE TABLE Audit Dept Table(
  Replication
                                                     193
                                                               date_of_change DATE,

    ⊕ PolyBase

                                                     194
                                                               old_Dname VARCHAR(15),
  🔢 📕 Always On High Availability
                                                               new_Dname VARCHAR(15),
                                                     195
  old_Dnumber INT,
                                                     196
  Integration Services Catalogs
                                                               new_Dnumber INT,
                                                     197
  SQL Server Agent
                                                               old Mgrssn CHAR(9),
                                                     198
  new_Mgrssn CHAR(9),
                                                     199
                                                     200
                                                               );
                                                     201
```

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ID: 2708062

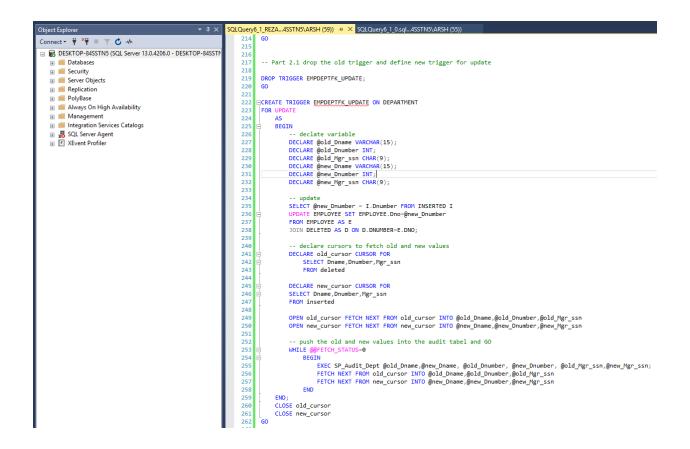
4) Call the Stored procedure *SP_Audit_Dept* at the end of your Trigger to record all the history of the changes by the trigger.

Name: Reza Shisheie

ID: 2708062

1) On Update of the trigger, Insert the new record into a table named *Audit_Dept_Table* as follow:

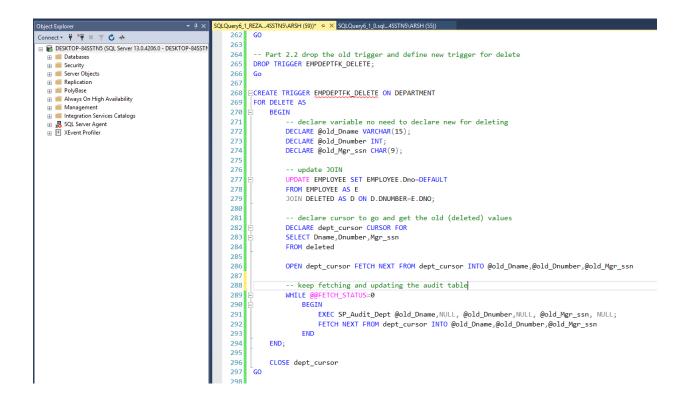
(date_of_change, old_Dname, new_Dname, old_Dnumber, new_Dnumber, old_Mgrssn, new_Mgrssn)



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ID: 2708062

2) On Delete of the trigger, Insert the changes into *Audit_Dept_Table* table as well. Since there is no new record for delete, so insert NULL for the new record columns new_Dname, new_Dnumber, new_Mgrssn of *Audit_Dept_Table*.

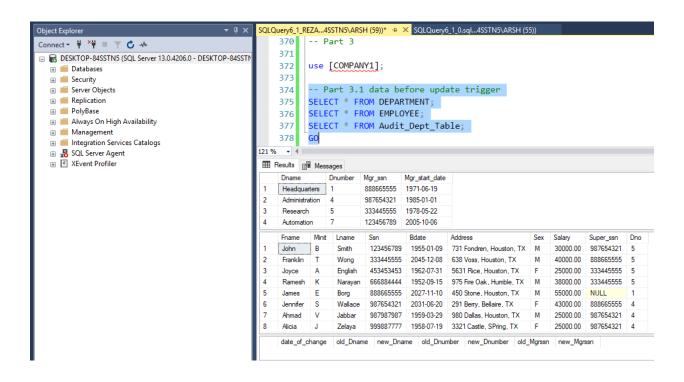


Name: Reza Shisheie

ID: 2708062

1. Date before the following change:

UPDATE Department Dnumber 4 to 99



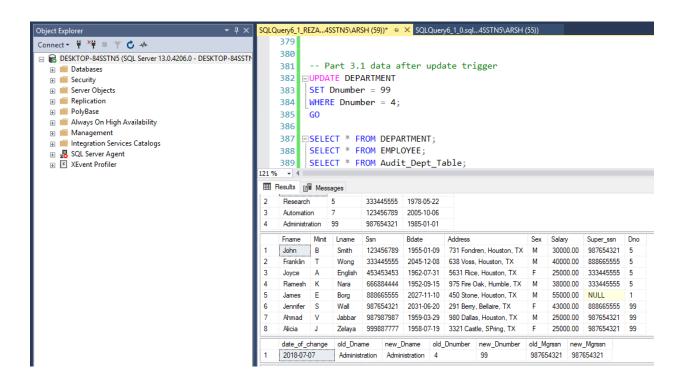
As shown above all values are what they were inserted, and the audit table is empty

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ID: 2708062

2. Date after the following change:

UPDATE Department Dnumber 4 to 99



As shown, the department number in department table is changed from 4 to 99 and consequently the department of all employees has to change from 4 to 99. This change is shown above.

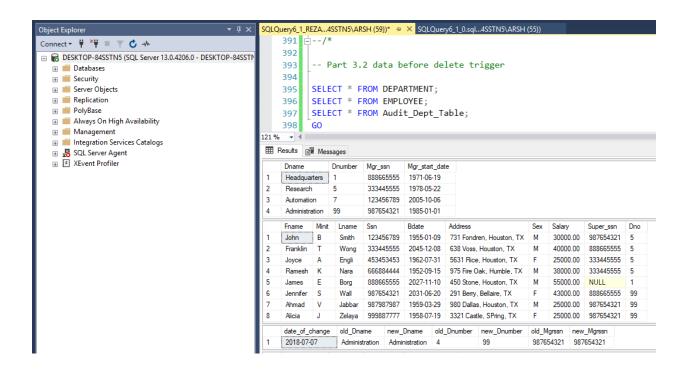
In addition, the change is recorded into audit table with the new data changed added to the table

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ID: 2708062

3. Date after the following change:

DELETE Department Dnumber 5



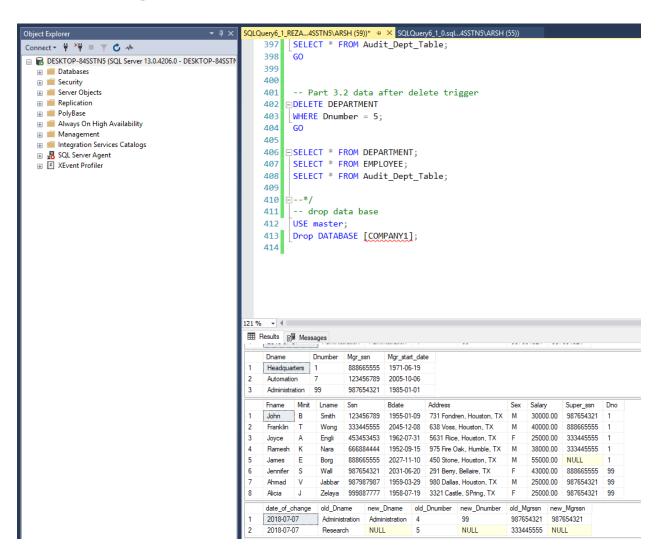
this is essentially the same as the result of previous section.

Name: Reza Shisheie

ID: 2708062

4. Date after the following change:

DELETE Department Dnumber 5



As shown above which ever department is selected (department 5) must be removed. The first table shows that there is department with department number 5 available which means it is removed.

In addition, all changes have to be recorded into the audit table. The first line of audit table shows the changes made in previous section (update) and the second row shows changes in the second section (delete). In the second row there is no new value added since the value is deleted and thus does not exist anymore.

Name: Reza Shisheie

ID: 2708062

Code

```
USE master;
-- define a data base called "COMPANY"
IF DB ID('COMPANY1') IS NULL
      CREATE DATABASE COMPANY1;
       -- DROP DATABASE COMPANY1;
GO
use COMPANY1;
go
-- droping all dependencies and constrainsts
ALTER TABLE EMPLOYEE DROP CONSTRAINT FKCONSTR1 1;
ALTER TABLE EMPLOYEE DROP CONSTRAINT FKCONSTR1_2;
ALTER TABLE DEPARTMENT DROP CONSTRAINT FKCONSTR2 1;
ALTER TABLE DEPT LOCATION DROP CONSTRAINT FKCONSTR3 1;
ALTER TABLE PROJECT DROP CONSTRAINT FKCONSTR4 1;
ALTER TABLE WORKS ON DROP CONSTRAINT FKCONSTR5 1;
ALTER TABLE WORKS_ON DROP CONSTRAINT FKCONSTR5_2;
ALTER TABLE DEPENDENT DROP CONSTRAINT FKCONSTR6_1;
-- droping and removing all tables
drop table DEPARTMENT;
drop table EMPLOYEE;
drop table DEPT_LOCATION
drop table PROJECT
drop table WORKS ON
drop table DEPENDENT
DROP VIEW VDept_Budget;
*/
IF OBJECT_ID('dbo.EMPLOYEE') IS NULL
       create table EMPLOYEE (
       Fname VARCHAR(15) NOT NULL,
      Minit CHAR,
       Lname VARCHAR(15) NOT NULL,
       Ssn CHAR(9) NOT NULL,
       Bdate DATE,
       Address VARCHAR(30),
       Sex CHAR,
       Salary DECIMAL(10,2),
       Super_ssn CHAR(9),
       Dno INT NOT NULL default 1,
       PRIMARY KEY (Ssn),
       );
-- Create a Table DEPARTMENT in COMPANY database
IF OBJECT ID('dbo.DEPARTMENT') IS NULL
```

Name: Reza Shisheie

```
CREATE TABLE dbo.DEPARTMENT(
      Dname VARCHAR(15) NOT NULL,
      Dnumber INT NOT NULL,
      Mgr ssn CHAR(9) NOT NULL,
      Mgr start date DATE
       PRIMARY KEY (Dnumber),
      UNIQUE (Dname),
       );
      ALTER TABLE EMPLOYEE
             ADD CONSTRAINT FKCONSTR1_1
                     FOREIGN KEY (Super_ssn) REFERENCES EMPLOYEE(Ssn);
      ALTER TABLE EMPLOYEE
             ADD CONSTRAINT FKCONSTR1 2
                    FOREIGN KEY (Dno) REFERENCES DEPARTMENT(Dnumber);
      ALTER TABLE DEPARTMENT
             ADD CONSTRAINT FKCONSTR2 1
                     FOREIGN KEY (Mgr_ssn) REFERENCES EMPLOYEE(Ssn);
IF OBJECT_ID('dbo.DEPT_LOCATION') IS NULL
       CREATE TABLE dbo.DEPT_LOCATION(
       Dnumber INT NOT NULL,
      Dlocation VARCHAR(30),
       PRIMARY KEY (Dnumber, Dlocation),
       --FOREIGN KEY (Dnumber) REFERENCES DEPARTMENT(Dnumber),
       );
       ALTER TABLE DEPT LOCATION
             ADD CONSTRAINT FKCONSTR3 1
                     FOREIGN KEY (Dnumber) REFERENCES DEPARTMENT(Dnumber);
IF OBJECT ID('dbo.PROJECT') IS NULL
      CREATE TABLE dbo.PROJECT(
       Pname VARCHAR(15) NOT NULL,
       Pnumber INT NOT NULL,
       Plocation VARCHAR(30),
      Dnum INT NOT NULL,
       PRIMARY KEY (Pnumber),
       --FOREIGN KEY (Dnum) REFERENCES DEPARTMENT(Dnumber),
       );
       ALTER TABLE PROJECT
             ADD CONSTRAINT FKCONSTR4 1
                     FOREIGN KEY (Dnum) REFERENCES DEPARTMENT(Dnumber);
```

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```
IF OBJECT ID('dbo.WORKS ON') IS NULL
       CREATE TABLE dbo.WORKS ON(
       Essn CHAR(9) NOT NULL,
       Pno INT NOT NULL,
       Hours VARCHAR(5),
       PRIMARY KEY (Essn, Pno),
       --FOREIGN KEY (Essn) REFERENCES EMPLOYEE(Ssn),
       --FOREIGN KEY (Pno) REFERENCES PROJECT(Pnumber),
       );
       ALTER TABLE WORKS ON
              ADD CONSTRAINT FKCONSTR5 1
                    FOREIGN KEY (Essn) REFERENCES EMPLOYEE(Ssn);
      ALTER TABLE WORKS ON
             ADD CONSTRAINT FKCONSTR5 2
                     FOREIGN KEY (Pno) REFERENCES PROJECT(Pnumber);
 IF OBJECT ID('dbo.DEPENDENT') IS NULL
       CREATE TABLE dbo.DEPENDENT(
       Essn CHAR(9) NOT NULL,
       Dependent name VARCHAR(15) NOT NULL,
       Sex VARCHAR(5) NOT NULL,
       Bdate DATE,
       Relationship VARCHAR(15) NOT NULL,
       PRIMARY KEY (Essn, Dependent_name),
       --FOREIGN KEY (Essn) REFERENCES EMPLOYEE(Ssn),
       );
       ALTER TABLE DEPENDENT
             ADD CONSTRAINT FKCONSTR6_1
                     FOREIGN KEY (Essn) REFERENCES EMPLOYEE(Ssn);
-- disabling FK with NOCHECK Option as below
ALTER TABLE COMPANY1.dbo.EMPLOYEE NOCHECK CONSTRAINT FKCONSTR1 1;
ALTER TABLE COMPANY1.dbo.EMPLOYEE NOCHECK CONSTRAINT FKCONSTR1_2;
ALTER TABLE COMPANY1 dbo DEPARTMENT NOCHECK CONSTRAINT FKCONSTR2 1;
ALTER TABLE COMPANY1.dbo.DEPT LOCATION NOCHECK CONSTRAINT FKCONSTR3 1;
ALTER TABLE COMPANY1.dbo.PROJECT NOCHECK CONSTRAINT FKCONSTR4 1;
ALTER TABLE COMPANY1.dbo.WORKS_ON NOCHECK CONSTRAINT FKCONSTR5_1;
ALTER TABLE COMPANY1.dbo.WORKS ON NOCHECK CONSTRAINT FKCONSTR5 2;
ALTER TABLE COMPANY1.dbo.DEPENDENT NOCHECK CONSTRAINT FKCONSTR6 1;
G0
-- Part 1.1 Drop all constrainst
ALTER TABLE EMPLOYEE DROP CONSTRAINT FKCONSTR1 1;
ALTER TABLE EMPLOYEE DROP CONSTRAINT FKCONSTR1 2;
ALTER TABLE DEPARTMENT DROP CONSTRAINT FKCONSTR2 1;
ALTER TABLE DEPT LOCATION DROP CONSTRAINT FKCONSTR3 1;
ALTER TABLE PROJECT DROP CONSTRAINT FKCONSTR4 1;
ALTER TABLE WORKS ON DROP CONSTRAINT FKCONSTR5 1;
ALTER TABLE WORKS ON DROP CONSTRAINT FKCONSTR5 2;
ALTER TABLE DEPENDENT DROP CONSTRAINT FKCONSTR6 1;
GO
```

```
CIS530- Lab Assignment 6: Trigger and Stored Procedure
Name: Reza Shisheie
ID: 2708062
-- Part 1.2 Creat trigger on update and delete events
CREATE TRIGGER EMPDEPTFK_DELETE ON DEPARTMENT
FOR DELETE AS
       BEGIN
              UPDATE EMPLOYEE SET EMPLOYEE, Dno=DEFAULT
              FROM EMPLOYEE AS E
              JOIN DELETED AS D ON D.Dnumber=E.Dno;
       END;
GO
CREATE TRIGGER EMPDEPTFK_UPDATE ON DEPARTMENT
FOR UPDATE AS
       BEGIN
              DECLARE @new_Dnumber INT
              SELECT @new Dnumber = I.Dnumber FROM INSERTED I
              UPDATE EMPLOYEE SET EMPLOYEE.Dno=@new_Dnumber
              FROM EMPLOYEE AS E
              JOIN DELETED AS D ON D.Dnumber=E.Dno;
       END;
GO
-- Part 1.3 create audit table
CREATE TABLE Audit_Dept_Table(
       date_of_change DATE,
       old Dname VARCHAR(15),
       new Dname VARCHAR(15),
       old Dnumber INT,
       new_Dnumber INT,
       old_Mgrssn CHAR(9),
       new_Mgrssn CHAR(9),
       );
G0
-- Part 1.4 create store proedure which saves all the data to track into audit table
CREATE PROCEDURE SP_Audit_Dept
       @old Dname VARCHAR(15),
       @new Dname
                    VARCHAR(15),
       @old Dnumber INT,
       @new Dnumber INT,
       @old Mgr ssn CHAR(9),
       @new_Mgr_ssn CHAR(9)
       AS
              INSERT INTO Audit Dept Table VALUES (GETDATE(), @old Dname, @new Dname,
@old_Dnumber, @new_Dnumber,@old_Mgr_ssn, @new_Mgr_ssn)
GO.
-- Part 2.1 drop the old trigger and define new trigger for update
DROP TRIGGER EMPDEPTFK UPDATE;
```

G0

```
CIS530- Lab Assignment 6: Trigger and Stored Procedure
Name: Reza Shisheie
ID: 2708062
CREATE TRIGGER EMPDEPTFK UPDATE ON DEPARTMENT
FOR UPDATE
      AS
       BEGIN
              -- declate variable
              DECLARE @old Dname VARCHAR(15);
              DECLARE @old Dnumber INT;
              DECLARE @old_Mgr_ssn CHAR(9);
              DECLARE @new Dname VARCHAR(15);
              DECLARE @new Dnumber INT;
              DECLARE @new_Mgr_ssn CHAR(9);
              -- update
              SELECT @new Dnumber = I.Dnumber FROM INSERTED I
              UPDATE EMPLOYEE SET EMPLOYEE.Dno=@new_Dnumber
              FROM EMPLOYEE AS E
              JOIN DELETED AS D ON D.DNUMBER=E.DNO;
              -- declare cursors to fetch old and new values
              DECLARE old cursor CURSOR FOR
                     SELECT Dname, Dnumber, Mgr_ssn
                     FROM deleted
              DECLARE new cursor CURSOR FOR
              SELECT Dname, Dnumber, Mgr_ssn
              FROM inserted
              OPEN old cursor FETCH NEXT FROM old cursor INTO
@old_Dname,@old_Dnumber,@old_Mgr_ssn
              OPEN new_cursor FETCH NEXT FROM new_cursor INTO
@new_Dname,@new_Dnumber,@new_Mgr_ssn
              -- push the old and new values into the audit tabel and GO
              WHILE @@FETCH_STATUS=0
                     BEGIN
                            EXEC SP Audit Dept @old Dname,@new Dname, @old Dnumber,
@new_Dnumber, @old_Mgr_ssn,@new_Mgr_ssn;
                            FETCH NEXT FROM old_cursor INTO
@old_Dname,@old_Dnumber,@old_Mgr_ssn
                            FETCH NEXT FROM new_cursor INTO
@new Dname,@new Dnumber,@new Mgr ssn
                     END
       END;
       CLOSE old_cursor
       CLOSE new_cursor
GO
-- Part 2.2 drop the old trigger and define new trigger for delete
DROP TRIGGER EMPDEPTFK DELETE;
Go
CREATE TRIGGER EMPDEPTFK DELETE ON DEPARTMENT
FOR DELETE AS
       BEGIN
```

-- declare variable no need to declare new for deleting

DECLARE @old Dname VARCHAR(15);

```
Name: Reza Shisheie
```

```
ID: 2708062
               DECLARE @old Dnumber INT;
               DECLARE @old Mgr ssn CHAR(9);
               -- update JOIN
               UPDATE EMPLOYEE SET EMPLOYEE. Dno=DEFAULT
               FROM EMPLOYEE AS E
               JOIN DELETED AS D ON D.DNUMBER=E.DNO;
               -- declare cursor to go and get the old (deleted) values
               DECLARE dept cursor CURSOR FOR
               SELECT Dname,Dnumber,Mgr_ssn
               FROM deleted
               OPEN dept cursor FETCH NEXT FROM dept cursor INTO
@old Dname,@old Dnumber,@old Mgr ssn
               -- keep fetching and updating the audit table
               WHILE @@FETCH STATUS=0
                       BEGIN
                              EXEC SP Audit Dept @old Dname, NULL, @old Dnumber, NULL,
@old_Mgr_ssn, NULL;
                              FETCH NEXT FROM dept cursor INTO
@old Dname,@old Dnumber,@old Mgr ssn
                       END
        END;
       CLOSE dept_cursor
GO
--Let's insert data into EMPLOYEE
insert into EMPLOYEE values ( 'John', 'B' ,'Smith','123456789','9-Jan-55', '731 Fondren,
Houston, TX', 'M', '30000', '987654321', '5');
insert into EMPLOYEE values ('Franklin', 'T', 'Wong', '333445555', '08-Dec-45', '638 Voss,
Houston, TX', 'M', '40000', '888665555', '5');
insert into EMPLOYEE values ( 'Joyce', 'A', 'English', '453453453', '31-Jul-62', '5631
Rice, Houston, TX', 'F', '25000', '333445555', '5');
insert into EMPLOYEE values ( 'Ramesh', 'K' ,'Narayan','6668844444','15-Sep-52', '975 Fire
Oak, Humble, TX', 'M', '38000', '333445555', '5');
insert into EMPLOYEE values ( 'James', 'E' , 'Borg', '888665555', '10-Nov-27', '450 Stone,
Houston, TX ', 'M', '55000', null, '1');
insert into EMPLOYEE values ( 'Jennifer', 'S' , 'Wallace', '987654321', '20-Jun-31', '291
Berry, Bellaire, TX', 'F', '43000', '888665555', '4');
insert into EMPLOYEE values ( 'Ahmad', 'V' ,'Jabbar','987987987','29-Mar-59', '980
Dallas, Houston, TX', 'M', '25000', '987654321', '4');
insert into EMPLOYEE values ( 'Alicia', 'J' ,'Zelaya','999887777','19-Jul-58', '3321
Castle, SPring, TX', 'F', '25000', '987654321', '4');
--Let's insert data into DEPARTMENT
insert into DEPARTMENT values ( 'Headquarters', '1' ,'888665555','19-Jun-71');
insert into DEPARTMENT values ( 'Administration', '4' ,'987654321','01-Jan-85');
```

Name: Reza Shisheie

```
insert into DEPARTMENT values ( 'Research', '5' ,'333445555','22-May-78');
insert into DEPARTMENT values ( 'Automation', '7' ,'123456789','06-Oct-05');
    --Let's insert data into DEPENDENT
 insert data into DEPENDENT
insert into DEPENDENT values ( '123456789', 'Alice' ,'F','31-Dec-78','Daughter');
insert into DEPENDENT values ( '123456789', 'Elizabeth' ,'F','05-May-57','Spouse');
insert into DEPENDENT values ( '123456789', 'Michael' ,'M','01-Jan-78','Son');
insert into DEPENDENT values ( '333445555', 'Alice' ,'F','05-Apr-76','Daughter');
insert into DEPENDENT values ( '333445555', 'Joy' ,'F','03-May-48','Spouce');
insert into DEPENDENT values ( '333445555', 'Theodore' ,'M','25-Oct-73','Son');
insert into DEPENDENT values ( '987654321', 'Abner' ,'M','29-Feb-32','Spouce');
    --Let's insert data into DEPT LOCATION
   insert into DEPT_LOCATION values ( '1', 'Houston');
  insert into DEPT_LOCATION values ( '1', Houston');
insert into DEPT_LOCATION values ( '4', 'Stafford');
insert into DEPT_LOCATION values ( '5', 'Bellaire');
insert into DEPT_LOCATION values ( '5', 'Sugarland');
insert into DEPT_LOCATION values ( '5', 'Houston');
   --Let's insert data into PROJECT
  insert into PROJECT values ( 'ProductX', '1', 'Bellaire', '5');
insert into PROJECT values ( 'ProductY', '2', 'Sugarland', '5');
insert into PROJECT values ( 'ProductZ', '3', 'Houston', '5');
insert into PROJECT values ( 'Computerization', '10', 'Stafford', '4');
insert into PROJECT values ( 'Reorganization', '20', 'Houston', '1');
insert into PROJECT values ( 'Newbenefits', '30', 'Stafford', '4');
insert into WORKS_ON values ( '123456789', '1', '32.5'); insert into WORKS_ON values ( '123456789', '2', '7.5'); insert into WORKS_ON values ( '123456789', '2', '7.5'); insert into WORKS_ON values ( '333445555', '2', '10'); insert into WORKS_ON values ( '333445555', '3', '10'); insert into WORKS_ON values ( '333445555', '10', '10'); insert into WORKS_ON values ( '333445555', '20', '10'); insert into WORKS_ON values ( '453453453', '1', '20'); insert into WORKS_ON values ( '453453453', '2', '20'); insert into WORKS_ON values ( '666884444', '3', '40'); insert into WORKS_ON values ( '888665555', '20', null); insert into WORKS_ON values ( '987654321', '20', '15'); insert into WORKS_ON values ( '987987987', '10', '35'); insert into WORKS_ON values ( '987987987', '10', '35'); insert into WORKS_ON values ( '999887777', '10', '10'); insert into WORKS_ON values ( '999887777', '10', '10'); insert into WORKS_ON values ( '999887777', '10', '10'); insert into WORKS_ON values ( '999887777', '30', '30');
   --Let's insert data into WORKS ON
   -- Part 3
   use [COMPANY1];
```

```
CIS530- Lab Assignment 6: Trigger and Stored Procedure
Name: Reza Shisheie
ID: 2708062
-- Part 3.1 data before update trigger
SELECT * FROM DEPARTMENT;
SELECT * FROM EMPLOYEE;
SELECT * FROM Audit_Dept_Table;
-- Part 3.1 data after update trigger
UPDATE DEPARTMENT
SET Dnumber = 99
WHERE Dnumber = 4;
G0
SELECT * FROM DEPARTMENT;
SELECT * FROM EMPLOYEE;
SELECT * FROM Audit_Dept_Table;
--/*
-- Part 3.2 data before delete trigger
SELECT * FROM DEPARTMENT;
SELECT * FROM EMPLOYEE;
SELECT * FROM Audit_Dept_Table;
-- Part 3.2 data after delete trigger
DELETE DEPARTMENT
WHERE Dnumber = 5;
G0
SELECT * FROM DEPARTMENT;
SELECT * FROM EMPLOYEE;
SELECT * FROM Audit_Dept_Table;
--*/
-- drop data base
```

USE master;

Drop DATABASE [COMPANY1];