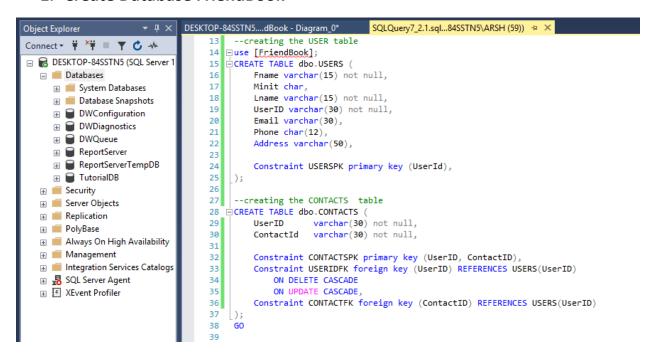
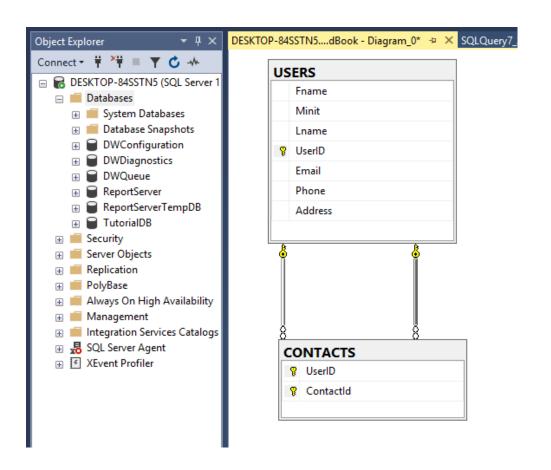
Name: Reza Shisheie

ID: 2708062

## 1. Create Database FriendBook

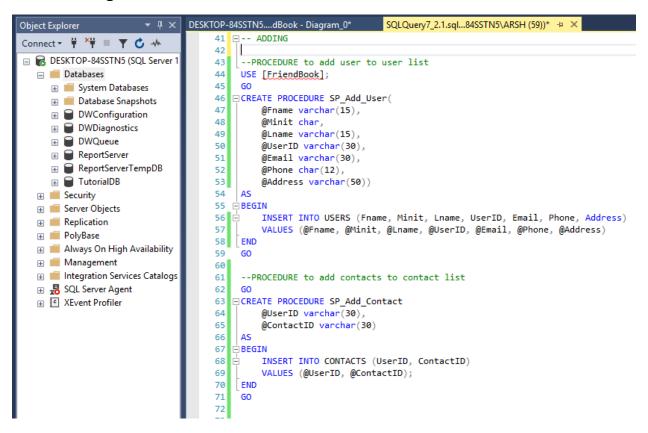




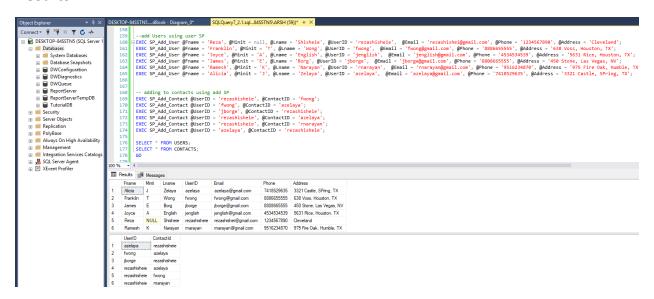
Name: Reza Shisheie

ID: 2708062

## 2. Adding



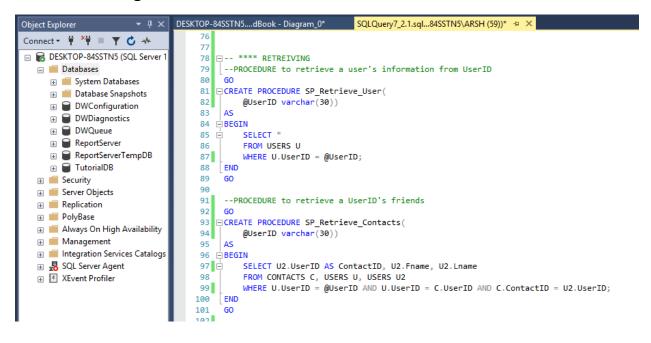
## **Results:**



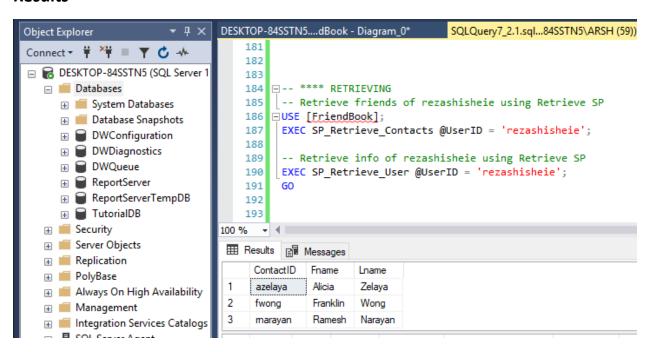
Name: Reza Shisheie

ID: 2708062

## 3. Retrieving



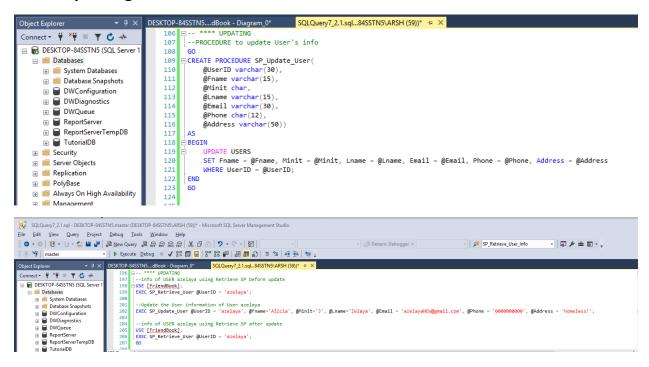
#### **Results**



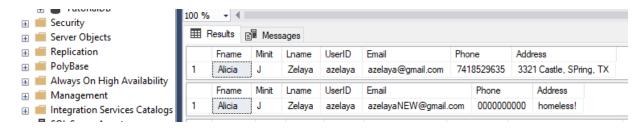
Name: Reza Shisheie

ID: 2708062

## 4. Updating



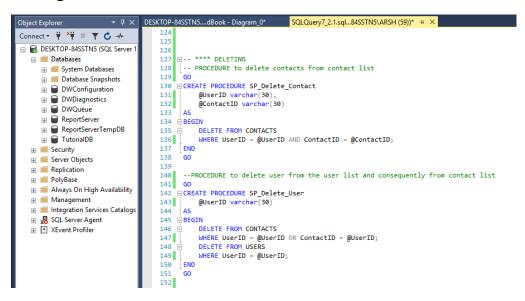
# Results: Old and new data after update

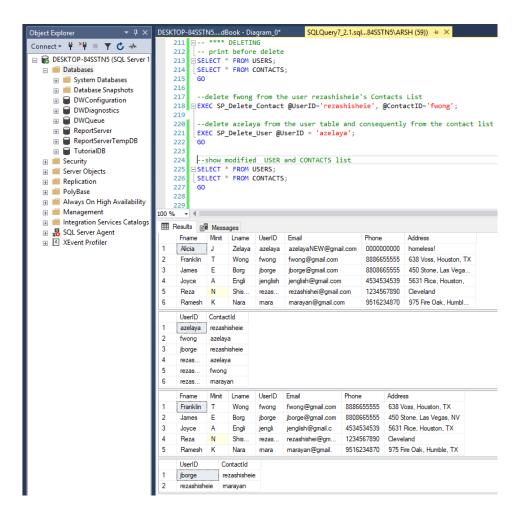


Name: Reza Shisheie

ID: 2708062

## 5. Deleting

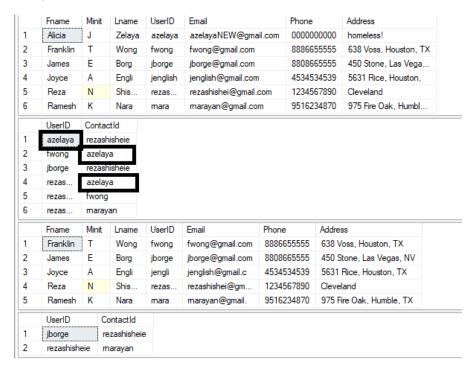




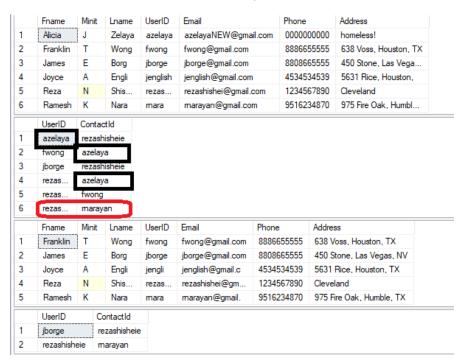
Name: Reza Shisheie

ID: 2708062

# As shown, azelaya is removed from contact list



# And (@UserID='rezashisheie', @ContactID='fwong') is removed from the contact list



Name: Reza Shisheie

ID: 2708062

## Code

```
/*CIS530 - Lab Assignment 6_1
Name: Reza Shisheie
ID: 2708062
Object: Creating FriendBook social network
-- creat database
CREATE DATABASE [FriendBook]
--creating the USER table
use [FriendBook];
CREATE TABLE dbo.USERS (
       Fname varchar(15) not null,
       Minit char,
       Lname varchar(15) not null,
       UserID varchar(30) not null,
       Email varchar(30),
       Phone char(12),
       Address varchar(50),
       Constraint USERSPK primary key (UserId),
);
--creating the CONTACTS table
CREATE TABLE dbo.CONTACTS (
      UserID varchar(30) not null,
ContactId varchar(30) not null,
       Constraint CONTACTSPK primary key (UserID, ContactID),
       Constraint USERIDFK foreign key (UserID) REFERENCES USERS(UserID)
              ON DELETE CASCADE
              ON UPDATE CASCADE,
       Constraint CONTACTFK foreign key (ContactID) REFERENCES USERS(UserID)
);
GO
-- ADDING
--PROCEDURE to add user to user list
USE [FriendBook];
CREATE PROCEDURE SP_Add_User(
       @Fname varchar(15),
       @Minit char,
       @Lname varchar(15),
       @UserID varchar(30),
       @Email varchar(30),
       @Phone char(12),
       @Address varchar(50))
AS
```

```
CIS530— Lab Assignment 6_1 Extra: Creating FriendBook social network
Name: Reza Shisheie
ID: 2708062
BEGIN
       INSERT INTO USERS (Fname, Minit, Lname, UserID, Email, Phone, Address)
       VALUES (@Fname, @Minit, @Lname, @UserID, @Email, @Phone, @Address)
END
G0
-- PROCEDURE to add contacts to contact list
CREATE PROCEDURE SP_Add_Contact
       @UserID
                    varchar(30),
       @ContactID varchar(30)
AS
BEGIN
       INSERT INTO CONTACTS (UserID, ContactID)
       VALUES (@UserID, @ContactID);
END
G0
-- **** RETREIVING
--PROCEDURE to retrieve a user's information from UserID
CREATE PROCEDURE SP_Retrieve_User(
                varchar(30))
       @UserID
AS
BEGIN
       SELECT *
       FROM USERS U
       WHERE U.UserID = @UserID;
END
GO
-- PROCEDURE to retrieve a UserID's friends
CREATE PROCEDURE SP_Retrieve_Contacts(
       @UserID varchar(30))
AS
BEGIN
       SELECT U2.UserID AS ContactID, U2.Fname, U2.Lname
       FROM CONTACTS C, USERS U, USERS U2
       WHERE U.UserID = @UserID AND U.UserID = C.UserID AND C.ContactID = U2.UserID;
END
G0
-- **** UPDATING
-- PROCEDURE to update User's info
CREATE PROCEDURE SP_Update_User(
       @UserID varchar(30),
```

```
CIS530— Lab Assignment 6_1 Extra: Creating FriendBook social network
Name: Reza Shisheie
ID: 2708062
       @Fname varchar(15),
       @Minit char,
       @Lname varchar(15),
       @Email varchar(30),
       @Phone char(12),
       @Address varchar(50))
AS
BEGIN
      UPDATE USERS
       SET Fname = @Fname, Minit = @Minit, Lname = @Lname, Email = @Email, Phone =
@Phone, Address = @Address
      WHERE UserID = @UserID;
END
G0
-- **** DELETING
-- PROCEDURE to delete contacts from contact list
CREATE PROCEDURE SP_Delete_Contact
       @UserID
                   varchar(30),
       @ContactID varchar(30)
AS
BEGIN
      DELETE FROM CONTACTS
      WHERE UserID = @UserID AND ContactID = @ContactID;
END
GO
--PROCEDURE to delete user from the user list and consequently from contact list
CREATE PROCEDURE SP_Delete_User
       @UserID
                    varchar(30)
AS
BEGIN
      DELETE FROM CONTACTS
      WHERE UserID = @UserID OR ContactID = @UserID;
      DELETE FROM USERS
      WHERE UserID = @UserID;
END
G0
-- **** CREATING AND ADDING
--add Users using user SP
EXEC SP Add User @Fname = 'Reza', @Minit = null, @Lname = 'Shisheie', @UserID =
'rezashisheie', @Email = 'rezashishei@gmail.com', @Phone = '1234567890', @Address =
'Cleveland';
EXEC SP_Add_User @Fname = 'Franklin', @Minit = 'T', @Lname = 'Wong', @UserID = 'fwong',
@Email = 'fwong@gmail.com', @Phone = '8886655555', @Address = '638 Voss, Houston, TX';
```

```
CIS530– Lab Assignment 6_1 Extra: Creating FriendBook social network Name: Reza Shisheie
```

ID: 2708062

```
EXEC SP Add_User @Fname = 'Joyce', @Minit = 'A', @Lname = 'English', @UserID =
'jenglish', @Email = 'jenglish@gmail.com', @Phone = '4534534539', @Address = '5631 Rice,
Houston, TX';
EXEC SP Add User @Fname = 'James', @Minit = 'E', @Lname = 'Borg', @UserID = 'jborge',
@Email = 'jborge@gmail.com', @Phone = '8808665555', @Address = '450 Stone, Las Vegas,
EXEC SP Add User @Fname = 'Ramesh', @Minit = 'K', @Lname = 'Narayan', @UserID =
'rnarayan', @Email = 'rnarayan@gmail.com', @Phone = '9516234870', @Address = '975 Fire
Oak, Humble, TX':
EXEC SP Add User @Fname = 'Alicia', @Minit = 'J', @Lname = 'Zelaya', @UserID = 'azelaya',
@Email = 'azelaya@gmail.com', @Phone = '7418529635', @Address = '3321 Castle, SPring,
TX';
-- adding to contacts using add SP
EXEC SP_Add_Contact @UserID = 'rezashisheie', @ContactID = 'fwong';
EXEC SP_Add_Contact @UserID = 'fwong', @ContactID = 'azelaya';
EXEC SP_Add_Contact @UserID = 'jborge', @ContactID = 'rezashisheie';
EXEC SP_Add_Contact @UserID = 'rezashisheie', @ContactID = 'azelaya';
EXEC SP_Add_Contact @UserID = 'rezashisheie', @ContactID = 'rnarayan';
EXEC SP_Add_Contact @UserID = 'azelaya', @ContactID = 'rezashisheie';
SELECT * FROM USERS;
SELECT * FROM CONTACTS;
G0
-- **** RETRIEVING
-- Retrieve friends of rezashisheie using Retrieve SP
USE [FriendBook];
EXEC SP_Retrieve_Contacts @UserID = 'rezashisheie';
-- Retrieve info of rezashisheie using Retrieve SP
EXEC SP_Retrieve_User @UserID = 'rezashisheie';
-- **** UPDATING
--info of USER azelaya using Retrieve SP before update
USE [FriendBook];
EXEC SP Retrieve User @UserID = 'azelaya';
--Update the User information of User azelaya
EXEC SP_Update_User @UserID = 'azelaya', @Fname='Alicia', @Minit='J', @Lname='Zelaya',
@Email = 'azelayaNEW@gmail.com', @Phone = '0000000000', @Address = 'homeless!';
--info of USER azelaya using Retrieve SP after update
USE [FriendBook];
EXEC SP Retrieve User @UserID = 'azelaya';
```

Name: Reza Shisheie

ID: 2708062

```
-- **** DELETING
-- print before delete

SELECT * FROM USERS;

SELECT * FROM CONTACTS;

GO

--delete fwong from the user rezashisheie's Contacts List

EXEC SP_Delete_Contact @UserID='rezashisheie', @ContactID='fwong';

--delete azelaya from the user table and consequently from the contact list

EXEC SP_Delete_User @UserID = 'azelaya';

GO

--show modified USER and CONTACTS list

SELECT * FROM USERS;

SELECT * FROM CONTACTS;

GO

-- DROP

USE master;

Drop DATABASE [FriendBook];
```