1. dbo Schema: Create contact using dbo.SP\_Create\_Contact stored procedure

First attempt: Inserting a contact that already exists. This returns an error message and a duplicate contact is not created.

```
1 ⊟USE dreamLocal
     3 ⊟--Create contact using stored procedure
     4 -- This contact already exists, so the procudure will return an error message.
    5 EXEC dbo.SP_Create_Contact
         @contacttype = 'Employee'
        , @first = 'Michal'
        , @last = 'Shaffer'
       , @middle = ''
    10 , @title = 'Ms.'
    11 , @email = 'mshaffer@wearedream.org'
    12 , @mobile = '9178624259'
    13 , @accounttype = 'Household'
    , @accountname = ''
    15 | , @homephone = '7187784484'
    16 , @workphone = ''
   17 , @suffix = ''
    18 , @addresstype = 'Home'
   19 , @address1 = '711 Montgomery St'
   20 | , @city = 'Brooklyn'
    21 , @state = 'NY'
    22 , @zip = 11213
    23 , @country = 'USA'
    24 , @addressCo = ''
    25 , @address2 = ''
100 % - <
ErrorNumber ErrorSeverity ErrorState ErrorProcedure ErrorLine ErrorMessage
   50000 11 1 dbo.SP_Create_Contact 57
                                                 Cannot insert duplicate contact.
```

Second Attempt: Inserting a contact that does not exist. This creates new rows in the following tables: Contact, Account, Affiliation, ContactType, Address, Address,

The view vw\_ContactWithRollup can also be seen as the last returned result set.

```
1 ⊟USE dreamLocal
           3 ⊟--Create contact using stored procedure
           4 -- This contact already exists, so the procudure will return an error message.
          5 EXEC dbo.SP Create Contact
                   @contacttype = 'Student'
                   , @first = 'May'
           8 , @last = 'Howard'
                  , @middle = ''
                   , @title = 'Ms.'
         10
                   , @email = 'mayH@gmail.org'
         11
         12
                   , @mobile = '9178651234'
         13
                   , @accounttype = 'Household'
                   , @accountname = ''
         14
                   , @homephone = ''
         15
                   , @workphone = ''
         16
         17
                   , @suffix = ''
                   , @addresstype = 'Home'
         18
                   , @address1 = '928 Other St'
                   , @city = 'Brooklyn'
         20
         21
                   , @state = 'NY'
                   , @zip = 11213
        22
         23 , @country = 'USA'
                  , @addressCo = ''
         24
                 , @address2 = ''
        25
          2 ☐ SELECT top 2 * FROM CONTACT ORDER BY ID DESC;
          3 SELECT top 2 * FROM ACCOUNT ORDER BY ID DESC;
           4 | SELECT top 2 * FROM Affiliation ORDER BY ID DESC;
          5 SELECT top 2 * FROM ContactType ORDER BY ID DESC:
          6 SELECT top 2 * FROM Address ORDER BY ID DESC;
         7 SELECT top 2 * FROM AddressAffiliation ORDER BY ID DESC;
         8 SELECT top 2 * FROM vw_ContactWithRollUps
100 % 🔻 🔻

        Id
        AccountName
        Type
        DateModified
        DateCreated

        AC1000019
        Ms. May Howard Household
        Household
        NULL
        2020-05-14 19.41.52.343

        AC1000018
        CUNY Brooklyn College
        Academic Institution
        NULL
        2020-04-19 22.06.19 373

        Id
        Accounted
        Contacted
        Role
        isActive
        DateModified
        DateCreated
        isPrimaryAffiliation

        1020
        AC1000019
        CO1000013
        NULL
        1
        NULL
        2020-05-14 19:41:52.343
        0

        20
        AC1000016
        CO1000011
        NULL
        0
        NULL
        2020-04-22 16:11:11.370
        0

        Id
        Contactid
        Type
        isActive
        DateModified
        DateCreated

        14
        C01000013
        Student
        1
        NULL
        2020-05-14 19-41:52:340

        13
        C01000010
        Student
        1
        NULL
        2020-05-12 18:05:01:527

        Id
        Type
        AddressCo
        AddressLine_1
        AddressLine_2
        City
        State
        Zip
        Country
        DateModified
        DateCreated

        11
        Home
        928 Other St
        Brooklyn
        NY
        11213
        USA
        NULL
        2020-05-14 19.41.52.353

        10
        Work
        1900 Bedford Avenue
        Whitehead 303
        Brooklyn
        NY
        11211
        USA
        NULL
        2020-04-19 22.06.23.570

        Id AddressId AccountId ContactId DateModified DateCreated

        16
        11
        AC1000019
        CO1000013
        NULL
        2020-05-14 19.41-52.353

        15
        10
        AC1000018
        NULL
        NULL
        2020-04-19 22-06 23.589

 ContactId FullName Email ContactType AddressCount AffiliationCount OpportunityWonAmount OpportunityRequestedAmount CurrentEnrollmentCount VolunteerHoursInterested VolunteerHoursConfirmed VolunteerHoursConfirmed VolunteerHoursCompleted VolunteerHoursTotal

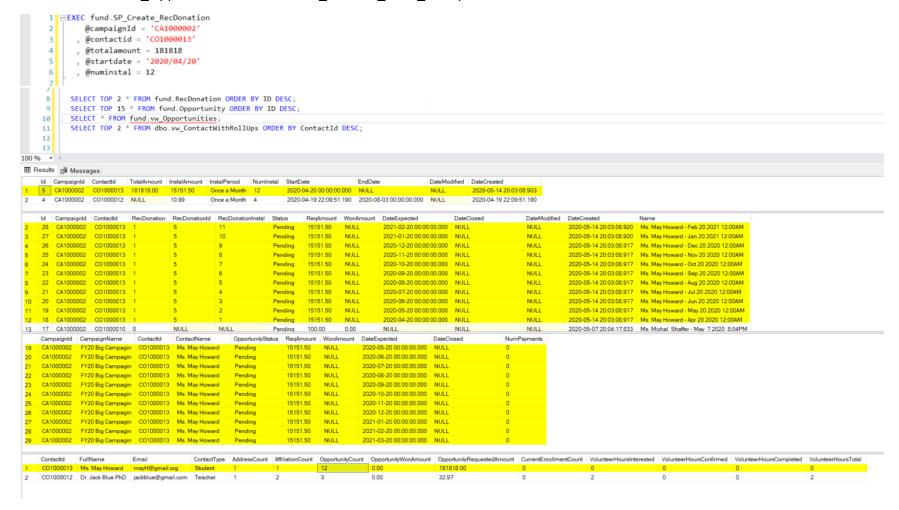
1 CO1000013 Ms. May Howard mayH@gmail.crg Student 1 1 0 0.00 0.00 0 0 0 0 0 0

2 CO1000012 Dr. Jack Blue PhD jackblue@gmail.crg Teacher 1 2 3 0.00 32.97 0 2 0 0 0 2
```

2. Fund Schema: Create recurring donation using fund.SP\_Create\_Rec\_Donation stored procedure

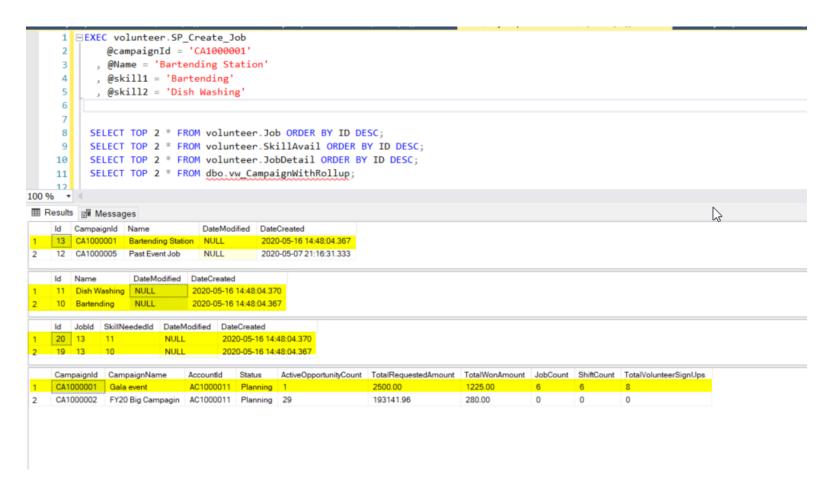
Provided the customer and campaign exists, this should create a new row in fund. RecDonation table and multiple rows in fund. Opportunities table.

The views fund.vw Opportunities and dbo.vw Contact With Rollup can also be seen in the last two result sets.

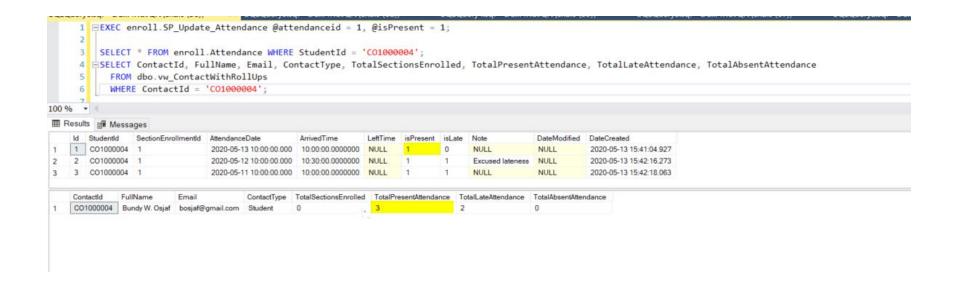


**3.** Volunteer Schema: Create a new Job for a fundraising event using volunteer.SP\_Create\_Job This will create a job record in the volunteer.jobs table as well as new skills in the SkillAvail table.

The view dbo.vw CampaginWithRollup can also be seen in the last result set.



4. Enroll Schema: Edit an attendance record for a student using enroll.SP Update Attendance



- 5. Schema integration: View data from multiple departments in one query.
  - Using view vw\_ContactWithRollup

This view shows all summary data on each contact.

The first row (Contact CO1000004) is a Student, and you can see the student's enrollments and attendance records.

The second row (Contact CO1000011) is a Volunteer and funder, and you can see their total opportunities, requested and won amounts, as well as their volunteer hours.

The third row (Contact CO1000012) is a Teacher and funder, and you can see their total opportunities, requested and won amounts, as well as the number of sections they are teaching.



• Using view vw\_CampaignWithRollup

This view shows data on Campaigns with a summary of the data from fund and volunteer schemas.

