

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
2
3 --Create contact using stored procedure
4 --This contact already exists, so the procedure will return an error message.
5 EXEC dbo.SP_Create_Contact
6     @contacttype = 'Employee'
7     , @first = 'Michal '
8     , @last = 'Shaffer'
9     , @middle = ''
10    , @title = 'Ms.'
11    , @email = 'mshaffer@wearedream.org'
12    , @mobile = '9178624259'
13    , @accounttype = 'Household'
14    , @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 = ''
```

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Results Messages

	ErrorNumber	ErrorSeverity	ErrorState	ErrorProcedure	ErrorLine	ErrorMessage
1	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, AddressAffiliation.

The view vw_ContactWithRollup can also be seen as the last returned result set.

```

1 USE dreamLocal
2
3 --Create contact using stored procedure
4 --This contact already exists, so the procedure will return an error message.
5 EXEC dbo.SP_Create_Contact
6     @contacttype = 'Student'
7     , @first = 'May'
8     , @last = 'Howard'
9     , @middle = ''
10    , @title = 'Ms.'
11    , @email = 'mayH@gmail.org'
12    , @mobile = '9178651234'
13    , @accounttype = 'Household'
14    , @accountname = ''
15    , @homephone = ''
16    , @workphone = ''
17    , @suffix = ''
18    , @addresstype = 'Home'
19    , @address1 = '928 Other St'
20    , @city = 'Brooklyn'
21    , @state = 'NY'
22    , @zip = 11213
23    , @country = 'USA'
24    , @addressco = ''
25    , @address2 = ''
26
27
28 SELECT top 2 * FROM CONTACT ORDER BY ID DESC;
29 SELECT top 2 * FROM ACCOUNT ORDER BY ID DESC;
30 SELECT top 2 * FROM Affiliation ORDER BY ID DESC;
31 SELECT top 2 * FROM ContactType ORDER BY ID DESC;
32 SELECT top 2 * FROM Address ORDER BY ID DESC;
33 SELECT top 2 * FROM AddressAffiliation ORDER BY ID DESC;
34 SELECT top 2 * FROM vw_ContactWithRollUps

```

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Results Messages

	Id	Title	FirstName	LastName	MiddleName	Suffix	Email	Email2	WorkPhone	HomePhone	CellPhone	Fax	DateModified	DateCreated	FullName
1	CO1000013	Ms.	May	Howard			mayH@gmail.org	NULL			9178651234	NULL	NULL	2020-05-14 19:41:52.150	Ms. May Howard
2	CO1000012	Dr.	Jack	Blue		PhD	jackblue@gmail.com	NULL				NULL	NULL	2020-04-19 22:06:17.117	Dr. Jack Blue PhD
	Id	AccountName	Type	DateModified	DateCreated										
1	AC1000019	Ms. May Howard Household	Household	NULL	2020-05-14 19:41:52.343										
2	AC1000018	CUNY Brooklyn College	Academic Institution	NULL	2020-04-19 22:06:19.373										
	Id	AccountId	ContactId	Role	IsActive	DateModified	DateCreated	isPrimaryAffiliation							
1	1020	AC1000019	CO1000013	NULL	1	NULL	2020-05-14 19:41:52.343	0							
2	20	AC1000016	CO1000011	NULL	0	NULL	2020-04-22 16:11:11.370	0							
	Id	ContactId	Type	IsActive	DateModified	DateCreated									
1	14	CO1000013	Student	1	NULL	2020-05-14 19:41:52.349									
2	13	CO1000010	Student	1	NULL	2020-05-12 18:05:01.527									
	Id	Type	AddressCo	AddressLine_1	AddressLine_2	City	State	Zip	Country	DateModified	DateCreated				
1	11	Home		928 Other St		Brooklyn	NY	11213	USA	NULL	2020-05-14 19:41:52.353				
2	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									
1	16	11	AC1000019	CO1000013	NULL	2020-05-14 19:41:52.353									
2	15	10	AC1000018	NULL	NULL	2020-04-19 22:06:23.580									
	ContactId	FullName	Email	ContactType	AddressCount	AffiliationCount	OpportunityCount	OpportunityWonAmount	OpportunityRequestedAmount	CurrentEnrollmentCount	VolunteerHoursInterested	VolunteerHoursConfirmed	VolunteerHoursCompleted	VolunteerHoursTotal	
1	CO1000013	Ms. May Howard	mayH@gmail.org	Student	1	1	0	0.00	0.00	0	0	0	0	0	
2	CO1000012	Dr. Jack Blue PhD	jackblue@gmail.com	Teacher	1	2	3	0.00	32.97	0	2	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.

```

1 EXEC fund.SP_Create_RecDonation
2   @campaignId = 'CA1000002'
3   , @contactid = 'CO1000013'
4   , @totalamount = 181818
5   , @startdate = '2020/04/20'
6   , @numinstal = 12
7
8 SELECT TOP 2 * FROM fund.RecDonation ORDER BY ID DESC;
9 SELECT TOP 15 * FROM fund.Opportunity ORDER BY ID DESC;
10 SELECT * FROM fund.vw_Opportunities;
11 SELECT TOP 2 * FROM dbo.vw_ContactWithRollUps ORDER BY ContactId DESC;
12
13

```

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Results

Messages

	Id	CampaignId	ContactId	TotalAmount	InstalAmount	InstalPeriod	NumInstal	StartDate	EndDate	DateModified	DateCreated
1	5	CA1000002	CO1000013	181818.00	15151.50	Once a Month	12	2020-04-20 00:00:00.000	NULL	NULL	2020-05-14 20:03:08.903
2	4	CA1000002	CO1000012	NULL	10.99	Once a Month	4	2020-04-19 22:09:51.190	2020-08-03 00:00:00.000	NULL	2020-04-19 22:09:51.190

	Id	CampaignId	ContactId	RecDonation	RecDonationId	RecDonationInstal	Status	ReqAmount	WonAmount	DateExpected	DateClosed	DateModified	DateCreated	Name
2	28	CA1000002	CO1000013	1	5	11	Pending	15151.50	NULL	2021-02-20 00:00:00.000	NULL	NULL	2020-05-14 20:03:08.920	Ms. May Howard - Feb 20 2021 12:00AM
3	27	CA1000002	CO1000013	1	5	10	Pending	15151.50	NULL	2021-01-20 00:00:00.000	NULL	NULL	2020-05-14 20:03:08.920	Ms. May Howard - Jan 20 2021 12:00AM
4	26	CA1000002	CO1000013	1	5	9	Pending	15151.50	NULL	2020-12-20 00:00:00.000	NULL	NULL	2020-05-14 20:03:08.917	Ms. May Howard - Dec 20 2020 12:00AM
5	25	CA1000002	CO1000013	1	5	8	Pending	15151.50	NULL	2020-11-20 00:00:00.000	NULL	NULL	2020-05-14 20:03:08.917	Ms. May Howard - Nov 20 2020 12:00AM
6	24	CA1000002	CO1000013	1	5	7	Pending	15151.50	NULL	2020-10-20 00:00:00.000	NULL	NULL	2020-05-14 20:03:08.917	Ms. May Howard - Oct 20 2020 12:00AM
7	23	CA1000002	CO1000013	1	5	6	Pending	15151.50	NULL	2020-09-20 00:00:00.000	NULL	NULL	2020-05-14 20:03:08.917	Ms. May Howard - Sep 20 2020 12:00AM
8	22	CA1000002	CO1000013	1	5	5	Pending	15151.50	NULL	2020-08-20 00:00:00.000	NULL	NULL	2020-05-14 20:03:08.917	Ms. May Howard - Aug 20 2020 12:00AM
9	21	CA1000002	CO1000013	1	5	4	Pending	15151.50	NULL	2020-07-20 00:00:00.000	NULL	NULL	2020-05-14 20:03:08.917	Ms. May Howard - Jul 20 2020 12:00AM
10	20	CA1000002	CO1000013	1	5	3	Pending	15151.50	NULL	2020-06-20 00:00:00.000	NULL	NULL	2020-05-14 20:03:08.917	Ms. May Howard - Jun 20 2020 12:00AM
11	19	CA1000002	CO1000013	1	5	2	Pending	15151.50	NULL	2020-05-20 00:00:00.000	NULL	NULL	2020-05-14 20:03:08.917	Ms. May Howard - May 20 2020 12:00AM
12	18	CA1000002	CO1000013	1	5	1	Pending	15151.50	NULL	2020-04-20 00:00:00.000	NULL	NULL	2020-05-14 20:03:08.917	Ms. May Howard - Apr 20 2020 12:00AM
13	17	CA1000002	CO1000010	0	NULL	NULL	Pending	100.00	0.00	NULL	NULL	NULL	2020-05-07 20:04:17.833	Ms. Michal Shaffer - May 7 2020 8:04PM

	CampaignId	CampaignName	ContactId	ContactName	OpportunityStatus	ReqAmount	WonAmount	DateExpected	DateClosed	NumPayments
19	CA1000002	FY20 Big Campaign	CO1000013	Ms. May Howard	Pending	15151.50	NULL	2020-05-20 00:00:00.000	NULL	0
20	CA1000002	FY20 Big Campaign	CO1000013	Ms. May Howard	Pending	15151.50	NULL	2020-06-20 00:00:00.000	NULL	0
21	CA1000002	FY20 Big Campaign	CO1000013	Ms. May Howard	Pending	15151.50	NULL	2020-07-20 00:00:00.000	NULL	0
22	CA1000002	FY20 Big Campaign	CO1000013	Ms. May Howard	Pending	15151.50	NULL	2020-08-20 00:00:00.000	NULL	0
23	CA1000002	FY20 Big Campaign	CO1000013	Ms. May Howard	Pending	15151.50	NULL	2020-09-20 00:00:00.000	NULL	0
24	CA1000002	FY20 Big Campaign	CO1000013	Ms. May Howard	Pending	15151.50	NULL	2020-10-20 00:00:00.000	NULL	0
25	CA1000002	FY20 Big Campaign	CO1000013	Ms. May Howard	Pending	15151.50	NULL	2020-11-20 00:00:00.000	NULL	0
26	CA1000002	FY20 Big Campaign	CO1000013	Ms. May Howard	Pending	15151.50	NULL	2020-12-20 00:00:00.000	NULL	0
27	CA1000002	FY20 Big Campaign	CO1000013	Ms. May Howard	Pending	15151.50	NULL	2021-01-20 00:00:00.000	NULL	0
28	CA1000002	FY20 Big Campaign	CO1000013	Ms. May Howard	Pending	15151.50	NULL	2021-02-20 00:00:00.000	NULL	0
29	CA1000002	FY20 Big Campaign	CO1000013	Ms. May Howard	Pending	15151.50	NULL	2021-03-20 00:00:00.000	NULL	0

	ContactId	FullName	Email	ContactType	AddressCount	AffiliationCount	OpportunityCount	OpportunityWonAmount	OpportunityRequestedAmount	CurrentEnrollmentCount	VolunteerHoursInterested	VolunteerHoursConfirmed	VolunteerHoursCompleted	VolunteerHoursTotal
1	CO1000013	Ms. May Howard	mayH@gmail.org	Student	1	1	12	0.00	181818.00	0	0	0	0	0
2	CO1000012	Dr. Jack Blue PhD	jackblue@gmail.com	Teacher	1	2	3	0.00	32.97	0	2	0	0	2

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_CampaignWithRollup can also be seen in the last result set.

```
1 EXEC volunteer.SP_Create_Job
2   @campaignId = 'CA1000001'
3   , @Name = 'Bartending Station'
4   , @skill1 = 'Bartending'
5   , @skill2 = 'Dish Washing'
6
7
8 SELECT TOP 2 * FROM volunteer.Job ORDER BY ID DESC;
9 SELECT TOP 2 * FROM volunteer.SkillAvail ORDER BY ID DESC;
10 SELECT TOP 2 * FROM volunteer.JobDetail ORDER BY ID DESC;
11 SELECT TOP 2 * FROM dbo.vw_CampaignWithRollup;
12
```

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Results Messages

	Id	CampaignId	Name	DateModified	DateCreated
1	13	CA1000001	Bartending Station	NULL	2020-05-16 14:48:04.367
2	12	CA1000005	Past Event Job	NULL	2020-05-07 21:16:31.333

	Id	Name	DateModified	DateCreated
1	11	Dish Washing	NULL	2020-05-16 14:48:04.370
2	10	Bartending	NULL	2020-05-16 14:48:04.367

	Id	JobId	SkillNeededId	DateModified	DateCreated
1	20	13	11	NULL	2020-05-16 14:48:04.370
2	19	13	10	NULL	2020-05-16 14:48:04.367

	CampaignId	CampaignName	AccountId	Status	ActiveOpportunityCount	TotalRequestedAmount	TotalWonAmount	JobCount	ShiftCount	TotalVolunteerSignUps
1	CA1000001	Gala event	AC1000011	Planning	1	2500.00	1225.00	6	6	8
2	CA1000002	FY20 Big Campagin	AC1000011	Planning	29	193141.96	280.00	0	0	0

4. Enroll Schema: Edit an attendance record for a student using enroll.SP_Update_Attendance

```

1 EXEC enroll.SP_Update_Attendance @attendanceid = 1, @isPresent = 1;
2
3 SELECT * FROM enroll.Attendance WHERE StudentId = 'CO1000004';
4 SELECT ContactId, FullName, Email, ContactType, TotalSectionsEnrolled, TotalPresentAttendance, TotalLateAttendance, TotalAbsentAttendance
5 FROM dbo.vw_ContactWithRollUps
6 WHERE ContactId = 'CO1000004';
7

```

100 %

Results Messages

	Id	StudentId	SectionEnrollmentId	AttendanceDate	ArrivedTime	LeftTime	isPresent	isLate	Note	DateModified	DateCreated
1	1	CO1000004	1	2020-05-13 10:00:00.000	10:00:00.0000000	NULL	1	0	NULL	NULL	2020-05-13 15:41:04.927
2	2	CO1000004	1	2020-05-12 10:00:00.000	10:30:00.0000000	NULL	1	1	Excused lateness	NULL	2020-05-13 15:42:16.273
3	3	CO1000004	1	2020-05-11 10:00:00.000	10:00:00.0000000	NULL	1	1	NULL	NULL	2020-05-13 15:42:18.063

	ContactId	FullName	Email	ContactType	TotalSectionsEnrolled	TotalPresentAttendance	TotalLateAttendance	TotalAbsentAttendance
1	CO1000004	Bundy W. Osjaf	bosjaf@gmail.com	Student	0	3	2	0

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.

```

5 SELECT * FROM dbo.vw_ContactWithRollUps WHERE ContactId IN ('CO1000011', 'CO1000004', 'CO1000012');
6

```

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Results Messages

	ContactId	FullName	Email	ContactType	AddressC...	AffiliationC...	OpportunityC...	OpportunityWonAm...	OpportunityRequestedAm...	CurrentEnrollmentC...	VolunteerHoursInter...	VolunteerHoursConf...	VolunteerHoursComp...	VolunteerHoursTot...	TotalSectionsTeach...	TotalSectionsEnrol...	CurrentSectionsEnrol...	TotalPresentAtt...	TotalLateAtt...	TotalAbsentAtt...
1	CO1000004	Bundy W. Osjaf	bosjaf@gmail.com	Student	1	1	0	0.00	0.00	1	0	0	0	0	0	0	1	2	2	1
2	CO1000011	Madam Zohn Niche	Nichee@hotmail.com	Volunteer, Fund...	1	2	2	1325.00	3500.00	0	2	0	0	2	0	0	0	0	0	0
3	CO1000012	Dr. Jack Blue PhD	jackblue@gmail.com	Teacher, Funder	1	2	3	0.00	32.97	0	2	0	0	2	1	1	0	0	0	0

- Using view vw_CampaignWithRollup

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

1	SELECT	FROM	dbo.vw_CampaignWithRollup;
2			
3			

100 %

Results Messages

	CampaignId	CampaignName	AccountId	Status	ActiveOpportunityCount	TotalRequestedAmount	TotalWonAmount	JobCount	ShiftCount	TotalVolunteerSignUps
1	CA1000001	Gala event	AC1000011	Planning	1	2500.00	1225.00	6	6	8
2	CA1000002	FY20 Big Campagin	AC1000011	Planning	29	193141.96	280.00	0	0	0
3	CA1000003	After School Math	AC1000011	Planning	0	NULL	NULL	0	0	0
4	CA1000005	After School Other	AC1000010	Cancelled	0	NULL	NULL	1	0	0
5	CA1000054	2019 Gala	AC1000011	Completed	0	NULL	NULL	0	0	0