

Steven Raden  
INFO 498  
Database Migration

### Code to Sync Databases using CDC

ENABLE CDC ON SOURCE (CRM) DATABASE

EXEC sys.sp\_cdc\_enable\_db

GO

--Enable CDC on table

EXEC sys.sp\_cdc\_enable\_table

@source\_schema = N'dbo',

@source\_name = N'ContactBase',

@role\_name = NULL

GO

--CHECK CDC table

SELECT \* FROM dbo.ContactBase

GO

SELECT \* FROM cdc.dbo.ContactBase\_CT

GO

--SYNCHRONIZE FROM SOURCE TO DESTINATION - change highlighted code to reference appropriate servers, databases, and tables

use PivotalEX

DECLARE @Contact\_ID Binary(8)

IF (OBJECT\_ID('tempdb..#cdc\_survey\_curr') is null)

BEGIN

SELECT \* INTO #cdc\_survey\_curr

FROM CRMCopy.cdc.dbo.ContactBase\_CT

END

WHILE ((SELECT COUNT(\*) FROM #cdc\_survey\_curr) > 0)

BEGIN

SET @Contact\_ID = (SELECT TOP 1 ContactId FROM #cdc\_survey\_curr)

--1 = DELETE

IF ((SELECT TOP 1 \_\_\$operation FROM #cdc\_survey\_curr) = 1)

BEGIN

DELETE FROM Contact WHERE Contact\_Id = @Contact\_ID

END

--2 = INSERT

IF ((SELECT TOP 1 \_\_\$operation FROM #cdc\_survey\_curr) = 2)

BEGIN

--DOES NOT INSERT IF ID IS ALREADY IN TABLE

IF ((SELECT Contact\_Id FROM Contact WHERE Contact\_Id = @Contact\_ID) IS NULL)

BEGIN

INSERT INTO [dbo].[Contact]

([Contact\_Id],[Rn\_Descriptor],[Rn\_Create\_Date],[First\_Name],[Last\_Name],[Title],[Familiar\_Name],[Phon

```
e],[Fax],[Account_Manager_Id],[Email],[Assistants_Name],[Assistant_Phone],[Birthday],[Department],[Territory_Id],[Spouses_Name],[Dont_Fax])
```

```
SELECT TOP 1
```

```
[ContactId],[Description],[CreatedOn],[FirstName],[LastName],[JobTitle],[NickName],[MobilePhone],[Fax],[OriginatingLeadID], [EMailAddress1], [AssistantName],[AssistantPhone],[BirthDate],[Department],[TerritoryCode],[SpousesName],[DoNotFax]
```

```
FROM #cdc_survey_curr
```

```
END
```

```
END
```

```
--4 = AFTER UPDATE
```

```
IF ((SELECT TOP 1 __$operation FROM #cdc_survey_curr) = 4)
```

```
BEGIN
```

```
UPDATE Contact
```

```
SET [Rn_Descriptor] = (SELECT TOP 1 Description FROM #cdc_survey_curr),
```

```
[Rn_Create_Date] = (SELECT TOP 1 CreatedOn FROM #cdc_survey_curr),
```

```
[First_Name] = (SELECT TOP 1 FirstName FROM #cdc_survey_curr),
```

```
[Last_Name] = (SELECT TOP 1 LastName FROM #cdc_survey_curr),
```

```
[Title] = (SELECT TOP 1 JobTitle FROM #cdc_survey_curr),
```

```
[Familiar_Name] = (SELECT TOP 1 NickName FROM #cdc_survey_curr),
```

```
[Phone] = (SELECT TOP 1 MobilePhone FROM #cdc_survey_curr),
```

```
[Fax] = (SELECT TOP 1 Fax FROM #cdc_survey_curr),
```

```
[Account_Manager_Id] = (SELECT TOP 1 OriginatingLeadId FROM  
#cdc_survey_curr),
```

```
[Email] = (SELECT TOP 1 EMailAddress1 FROM #cdc_survey_curr),
```

```
[Assistants_Name] = (SELECT TOP 1 AssistantName FROM #cdc_survey_curr),
```

```
[Assistant_Phone] = (SELECT TOP 1 AssistantPhone FROM #cdc_survey_curr),
```

```
[Birthday] = (SELECT TOP 1 BirthDate FROM #cdc_survey_curr),
```

```
[Department] = (SELECT TOP 1 Department FROM #cdc_survey_curr),
```

```
[Territory_Id] = (SELECT TOP 1 TerritoryCode FROM #cdc_survey_curr),
```

```
[Spouses_Name] = (SELECT TOP 1 SpousesName FROM #cdc_survey_curr),
```

```
[Dont_Fax] = (SELECT TOP 1 DoNotFax FROM #cdc_survey_curr)
```

```
WHERE Contact_Id = @Contact_ID
```

```
END
```

```
DELETE TOP (1) FROM CRMCopy.cdc.dbo_ContactBase_CT
```

```
DELETE TOP (1) FROM #cdc_survey_curr
```

```
END --END WHILE
```

```
DROP TABLE #cdc_survey_curr --Drops temp table
```