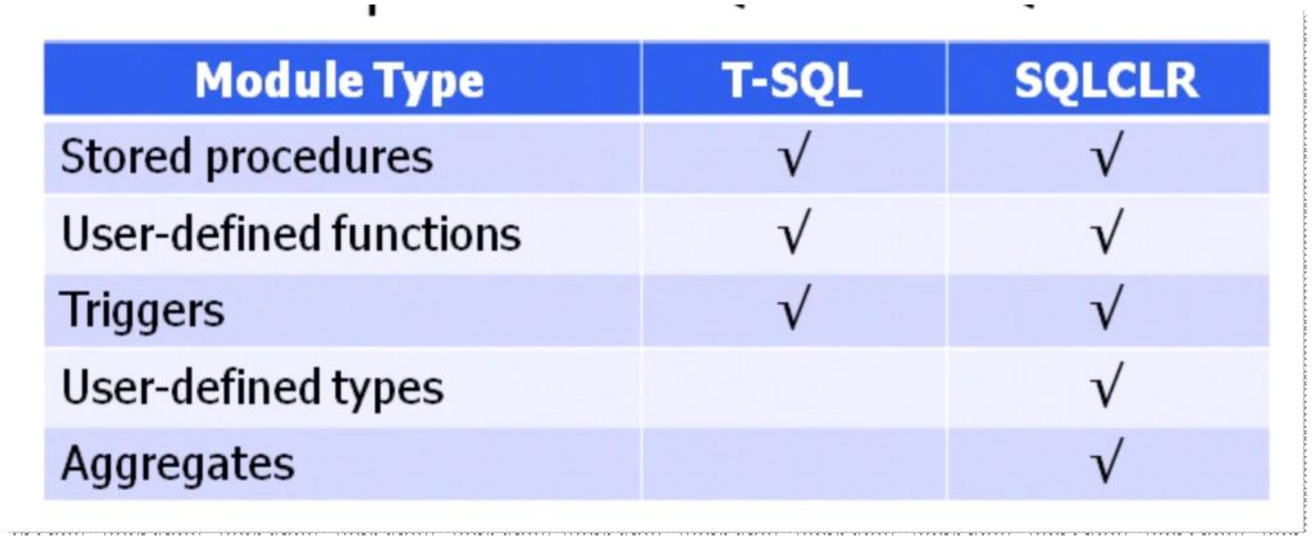
# Capabilities

Monday, May 29, 2017 7:32 PM

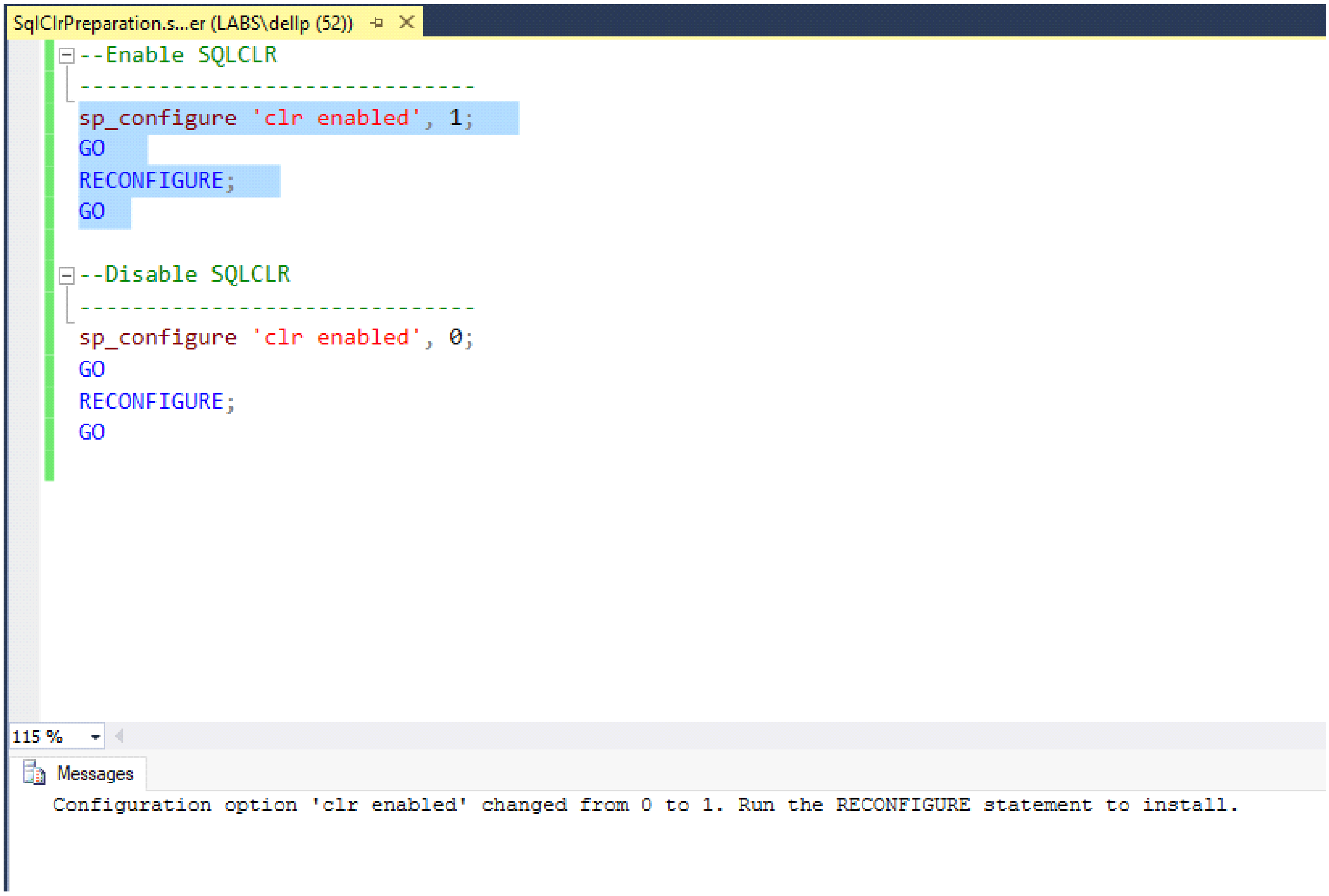
- [ ] SQL Sever Data Tools is required for the SLQ CLR Template



| Module Type | T-SQL | SQLCLR |
|---|---|---|
| Stored procedures | √ | √ |
| User-defined functions | √ | √ |
| Triggers | √ | √ |
| User-defined types | | √ |
| Aggregates | | √ |

# Configure SQL Server

Monday, May 29, 2017 7:36 PM


SqlClrPreparation.s...er (LABS\dellp (52))

```
--Enable SQLCLR
------------------------------
sp_configure 'clr enabled', 1;
GO
RECONFIGURE;
GO

--Disable SQLCLR
------------------------------
sp_configure 'clr enabled', 0;
GO
RECONFIGURE;
GO
```

115 %

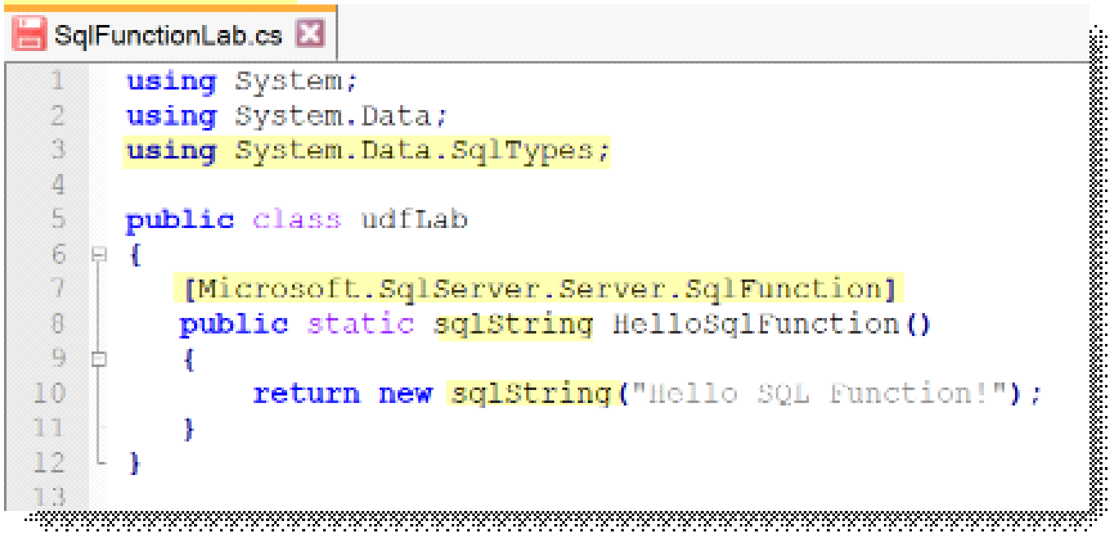
Messages

```
Configuration option 'clr enabled' changed from 0 to 1. Run the RECONFIGURE statement to install.
```

# Create Simple DLL

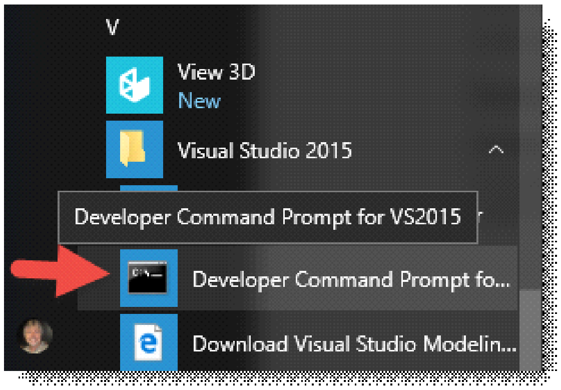
Monday, May 29, 2017 7:54 PM

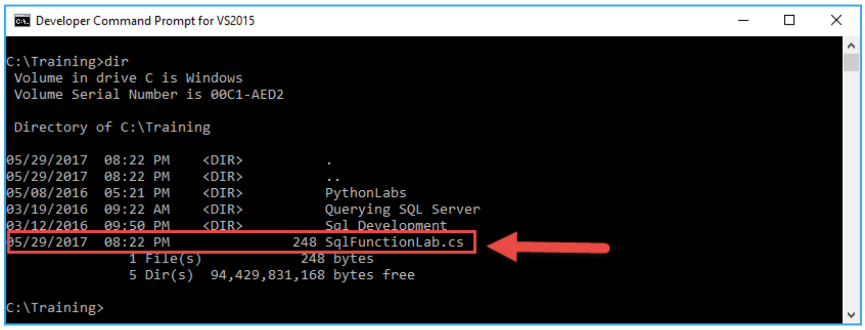
## Create C# File



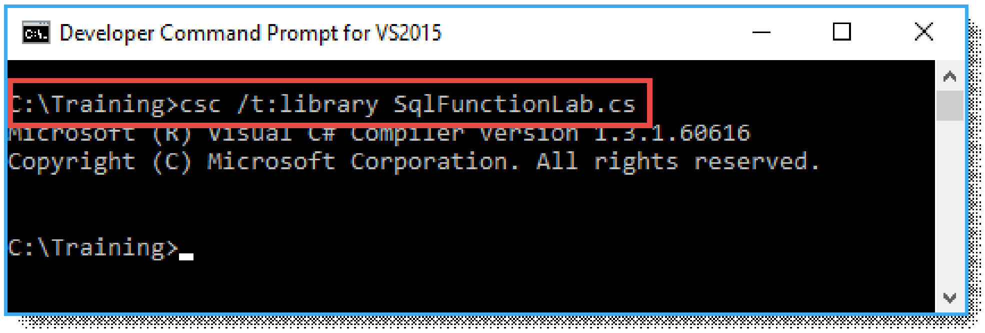
```
using System;
using System.Data;
using System.Data.SqlTypes;

public class udfLab
{
    [Microsoft.SqlServer.Server.SqlFunction]
    public static sqlString HelloSqlFunction()
    {
        return new sqlString("Hello SQL Function!");
    }
}
```

## Compile File

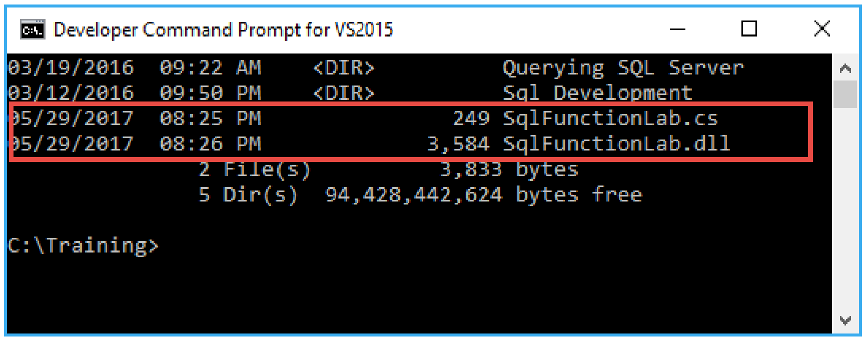

V
View 3D
New
Visual Studio 2015
Developer Command Prompt for VS2015
Developer Command Prompt fo...
Download Visual Studio Modelin...



```
C:\Training>dir
 Volume in drive C is Windows
 Volume Serial Number is 00C1-AED2

 Directory of C:\Training

05/29/2017  08:22 PM    <DIR>          .
05/29/2017  08:22 PM    <DIR>          ..
05/08/2016  05:21 PM    <DIR>          PythonLabs
03/19/2016  09:22 AM    <DIR>          Querying SQL Server
03/12/2016  09:50 PM    <DIR>          Sql Development
05/29/2017  08:22 PM               248 SqlFunctionLab.cs
               1 File(s)            248 bytes
               5 Dir(s)  94,429,831,168 bytes free

C:\Training>
```



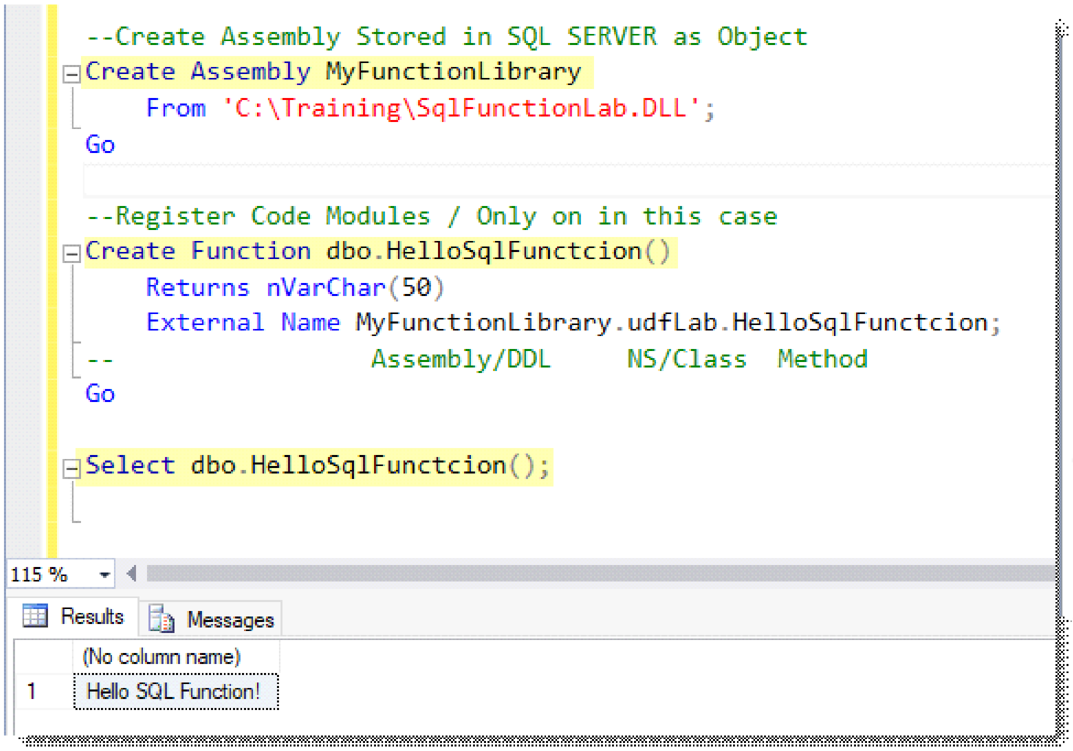
```
C:\Training>csc /t:library SqlFunctionLab.cs
Microsoft (R) Visual C# Compiler version 1.3.1.60616
Copyright (C) Microsoft Corporation. All rights reserved.


C:\Training>_
```



```
03/19/2016  09:22 AM    <DIR>          Querying SQL Server
03/12/2016  09:50 PM    <DIR>          Sql Development
05/29/2017  08:25 PM               249 SqlFunctionLab.cs
05/29/2017  08:26 PM             3,584 SqlFunctionLab.dll
               2 File(s)          3,833 bytes
               5 Dir(s)  94,428,442,624 bytes free

C:\Training>
```

# Register and Execute

Monday, May 29, 2017 8:29 PM

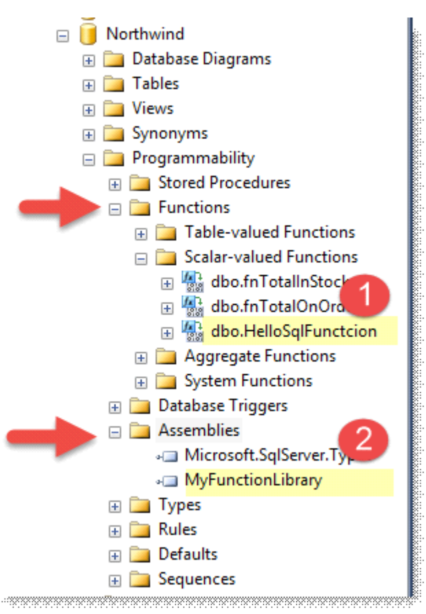


```
--Create Assembly Stored in SQL SERVER as Object
Create Assembly MyFunctionLibrary
     From 'C:\Training\SqlFunctionLab.DLL';
Go

--Register Code Modules / Only on in this case
Create Function dbo.HelloSqlFunctcion()
     Returns nVarChar(50)
     External Name MyFunctionLibrary.udfLab.HelloSqlFunctcion;
--                  Assembly/DDL      NS/Class  Method
Go

Select dbo.HelloSqlFunctcion();
```

115 %

Results | Messages

```
   (No column name)
1  Hello SQL Function!
```

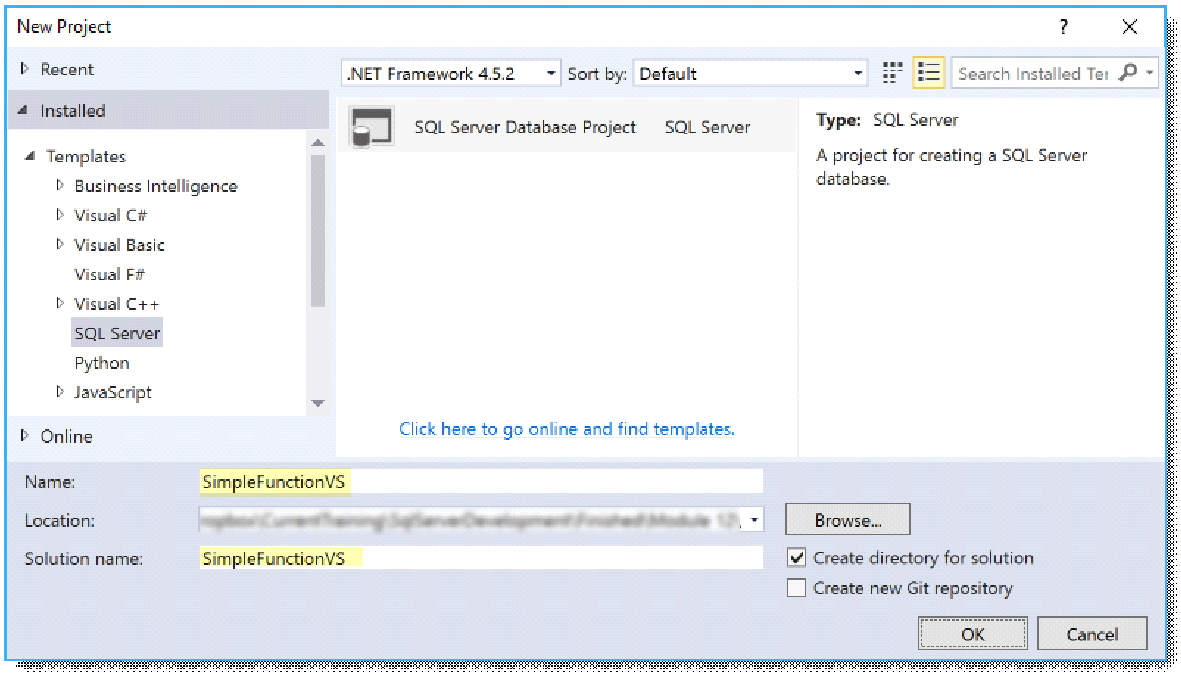


```
Northwind
  Database Diagrams
  Tables
  Views
  Synonyms
  Programmability
    Stored Procedures
    Functions
      Table-valued Functions
      Scalar-valued Functions
        dbo.fnTotalInStoc
        dbo.fnTotalOnOrd
        dbo.HelloSqlFunctcion
      Aggregate Functions
      System Functions
    Database Triggers
    Assemblies
      Microsoft.SqlServer.Ty
      MyFunctionLibrary
    Types
    Rules
    Defaults
    Sequences
```

# Simple Function VS-2015

Monday, May 29, 2017 11:00 PM

## ☐ SqlFunction VS Project



New Project

Recent
Installed
Templates
Business Intelligence
Visual C#
Visual Basic
Visual F#
Visual C++
SQL Server
Python
JavaScript
Online

.NET Framework 4.5.2 Sort by: Default

SQL Server Database Project SQL Server

**Type:** SQL Server

A project for creating a SQL Server database.

Click here to go online and find templates.

Name: SimpleFunctionVS

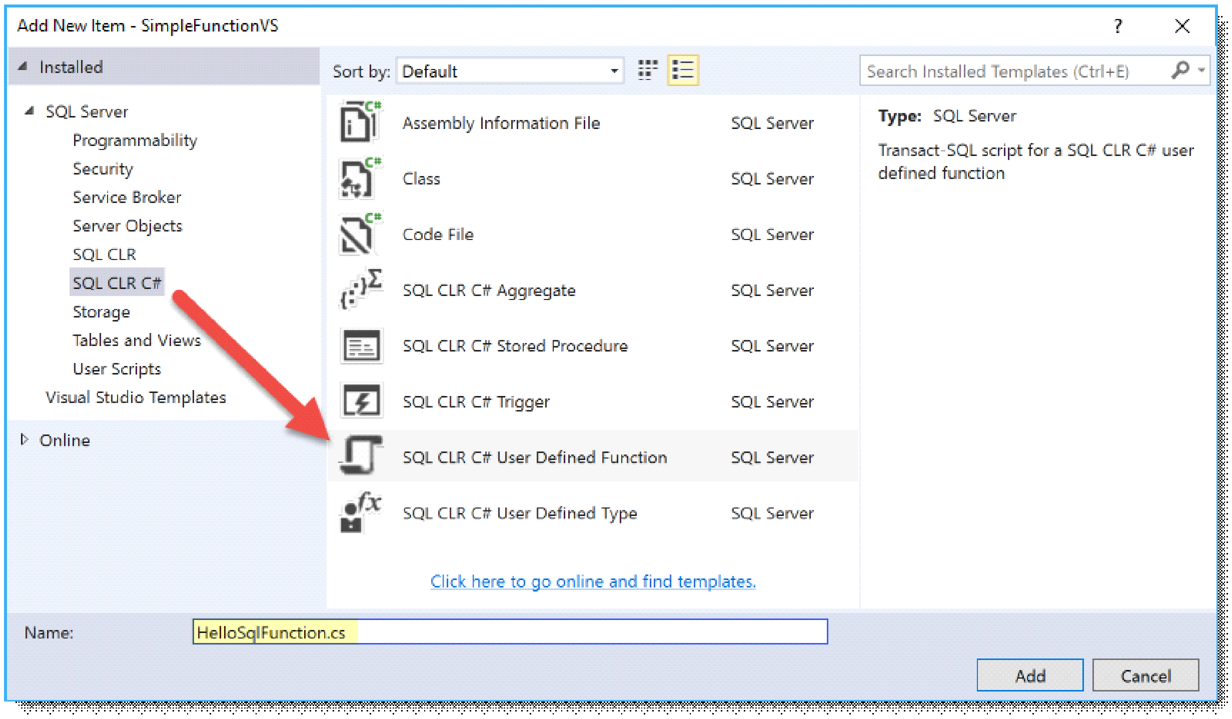
Location:

Solution name: SimpleFunctionVS

☑ Create directory for solution

☐ Create new Git repository

## ☐ HelloSqlFunction.cs



Add New Item - SimpleFunctionVS

Installed
SQL Server
Programmability
Security
Service Broker
Server Objects
SQL CLR
SQL CLR C#
Storage
Tables and Views
User Scripts
Visual Studio Templates
Online

Sort by: Default

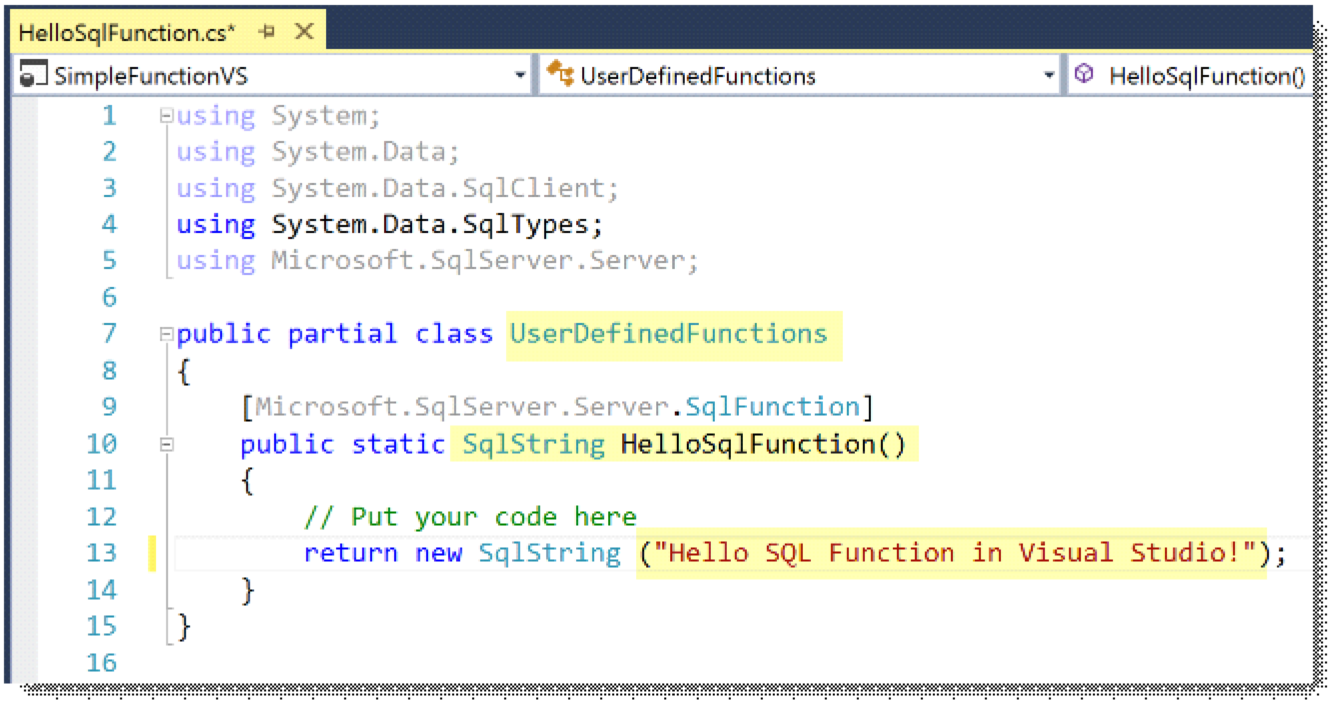
| | |
|---|---|
| Assembly Information File | SQL Server |
| Class | SQL Server |
| Code File | SQL Server |
| SQL CLR C# Aggregate | SQL Server |
| SQL CLR C# Stored Procedure | SQL Server |
| SQL CLR C# Trigger | SQL Server |
| SQL CLR C# User Defined Function | SQL Server |
| SQL CLR C# User Defined Type | SQL Server |

**Type:** SQL Server

Transact-SQL script for a SQL CLR C# user defined function

Click here to go online and find templates.

Name: HelloSqlFunction.cs

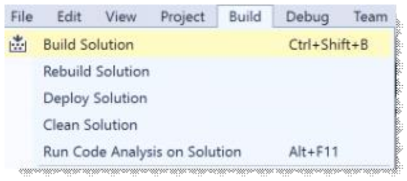


```
using System;
using System.Data;
using System.Data.SqlClient;
using System.Data.SqlTypes;
using Microsoft.SqlServer.Server;

public partial class UserDefinedFunctions
{
    [Microsoft.SqlServer.Server.SqlFunction]
    public static SqlString HelloSqlFunction()
    {
        // Put your code here
        return new SqlString ("Hello SQL Function in Visual Studio!");
    }
}
```

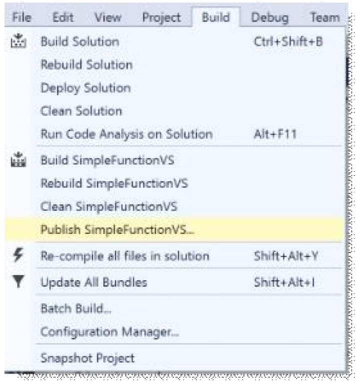
# Implement fn in SQL

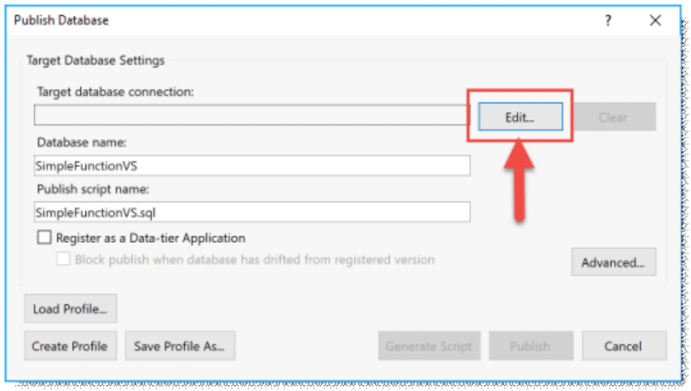
Monday, May 29, 2017 11:14 PM

## ☐ Build Solution



## ☐ Publish to SQL Server - Northwind





Target Database Settings

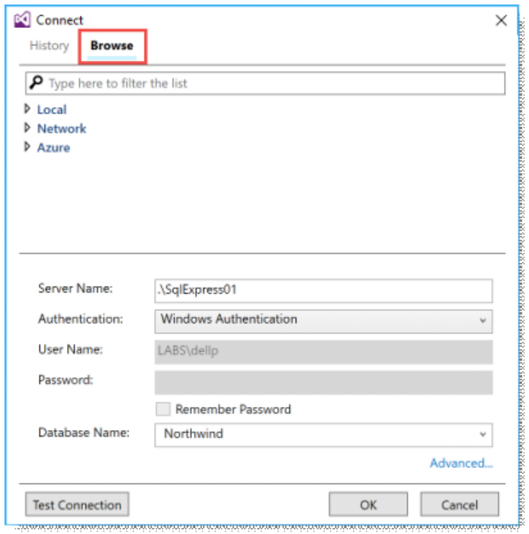
Target database connection:

Database name: SimpleFunctionVS

Publish script name: SimpleFunctionVS.sql

☐ Register as a Data-tier Application

☐ Block publish when database has drifted from registered version



Server Name: .\SqlExpress01

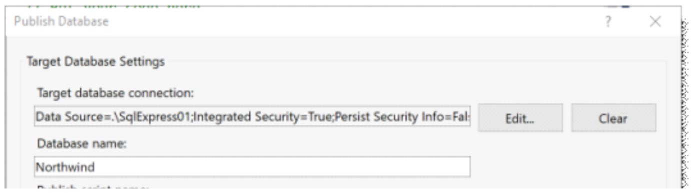
Authentication: Windows Authentication

User Name: LABS\dellp

Password:

☐ Remember Password

Database Name: Northwind

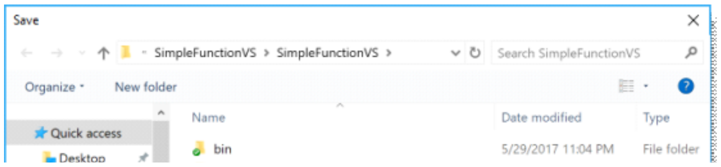


Target Database Settings

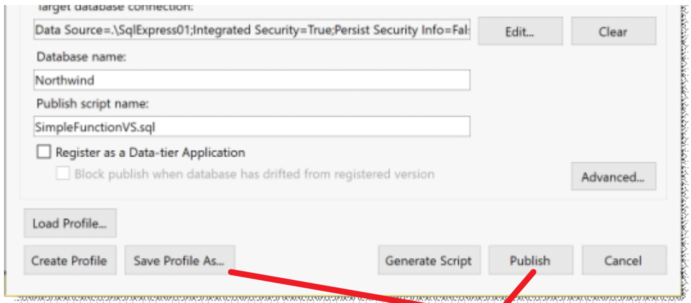
Target database connection: Data Source=.\SqlExpress01;Integrated Security=True;Persist Security Info=Fal

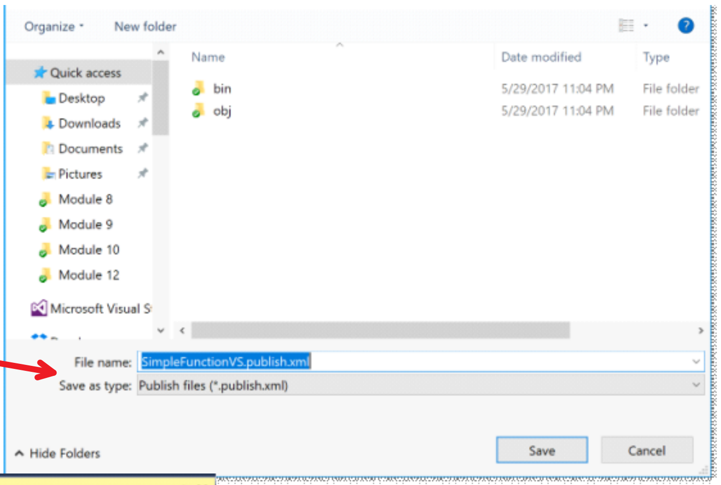
Database name: Northwind

Profile - Can be used for automation in deployment



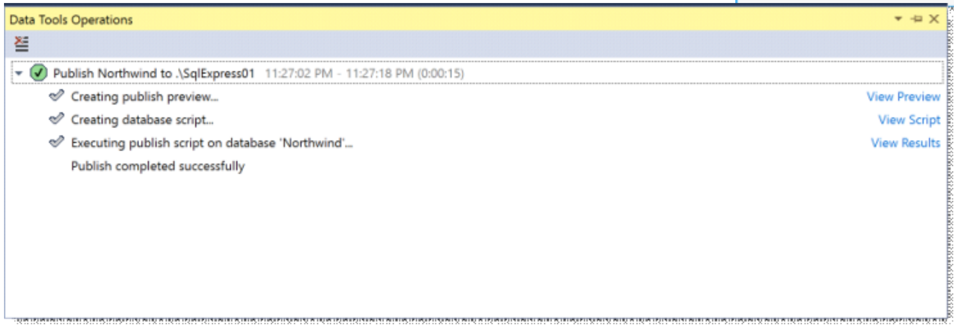
| Name | Date modified | Type |
|---|---|---|
| bin | 5/29/2017 11:04 PM | File folder |


Target database connection:
Data Source=.\SqlExpress01;Integrated Security=True;Persist Security Info=Fal:
Database name:
Northwind
Publish script name:
SimpleFunctionVS.sql
Edit...
Clear
Register as a Data-tier Application
Block publish when database has drifted from registered version
Advanced...
Load Profile...
Create Profile
Save Profile As...
Generate Script
Publish
Cancel

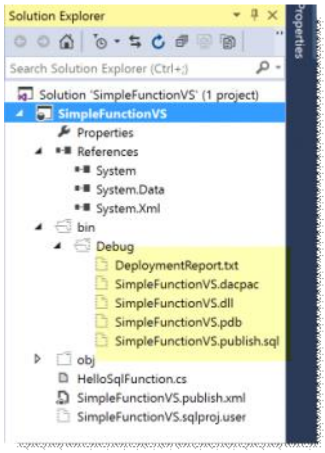


| Name | Date modified | Type |
|---|---|---|
| bin | 5/29/2017 11:04 PM | File folder |
| obj | 5/29/2017 11:04 PM | File folder |

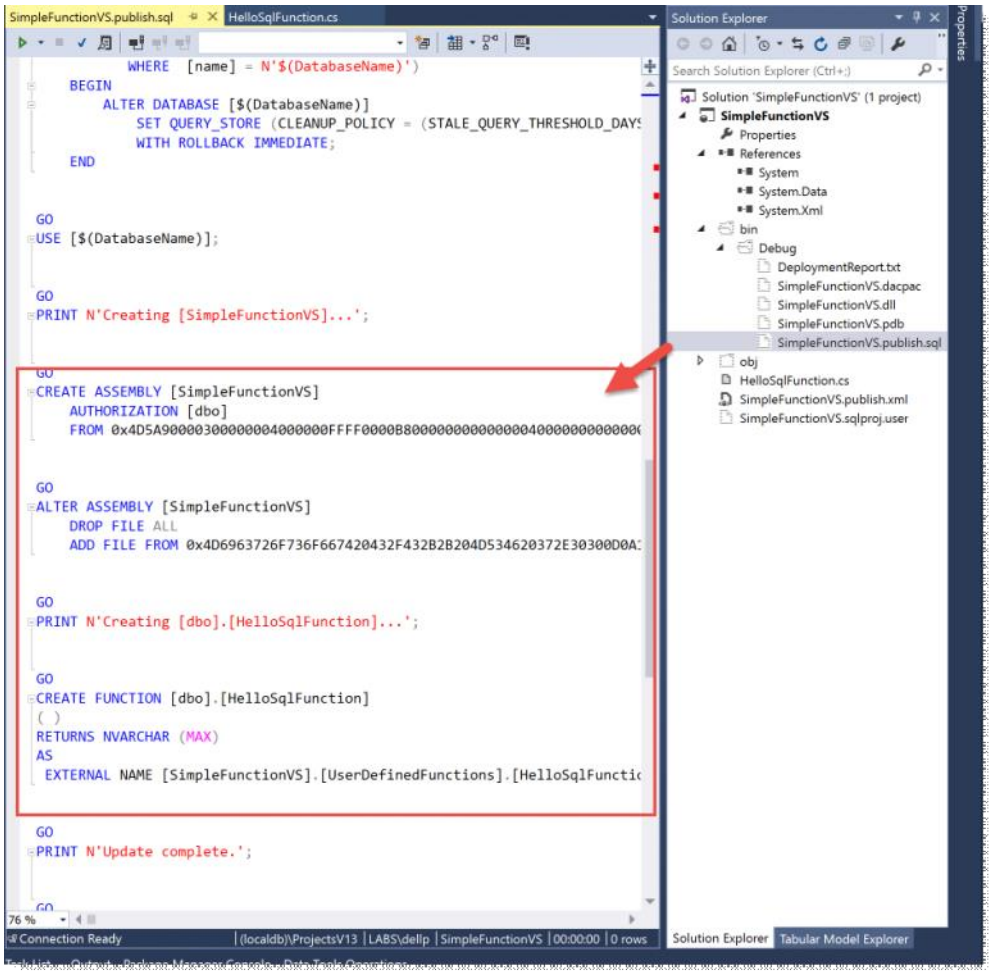
File name: SimpleFunctionVS.publish.xml
Save as type: Publish files (*.publish.xml)


Data Tools Operations

```
Publish Northwind to .\SqlExpress01   11:27:02 PM - 11:27:18 PM (0:00:15)
    Creating publish preview...                                   View Preview
    Creating database script...                                   View Script
    Executing publish script on database 'Northwind'...           View Results
    Publish completed successfully
```


Solution Explorer

```
Solution 'SimpleFunctionVS' (1 project)
  SimpleFunctionVS
    Properties
    References
      System
      System.Data
      System.Xml
    bin
      Debug
        DeploymentReport.txt
        SimpleFunctionVS.dacpac
        SimpleFunctionVS.dll
        SimpleFunctionVS.pdb
        SimpleFunctionVS.publish.sql
    obj
    HelloSqlFunction.cs
    SimpleFunctionVS.publish.xml
    SimpleFunctionVS.sqlproj.user
```



```
        WHERE  [name] = N'$(DatabaseName)')
    BEGIN
        ALTER DATABASE [$(DatabaseName)]
            SET QUERY_STORE (CLEANUP_POLICY = (STALE_QUERY_THRESHOLD_DAYS
            WITH ROLLBACK IMMEDIATE;
    END


GO
USE [$(DatabaseName)];


GO
PRINT N'Creating [SimpleFunctionVS]...';


GO
CREATE ASSEMBLY [SimpleFunctionVS]
    AUTHORIZATION [dbo]
    FROM 0x4D5A90000300000004000000FFFF0000B800000000000000400000000000000


GO
ALTER ASSEMBLY [SimpleFunctionVS]
    DROP FILE ALL
    ADD FILE FROM 0x4D6963726F736F667420432F432B2B204D534620372E30300D0A1


GO
PRINT N'Creating [dbo].[HelloSqlFunction]...';


GO
CREATE FUNCTION [dbo].[HelloSqlFunction]
( )
RETURNS NVARCHAR (MAX)
AS
 EXTERNAL NAME [SimpleFunctionVS].[UserDefinedFunctions].[HelloSqlFunctio


GO
PRINT N'Update complete.';


GO
```

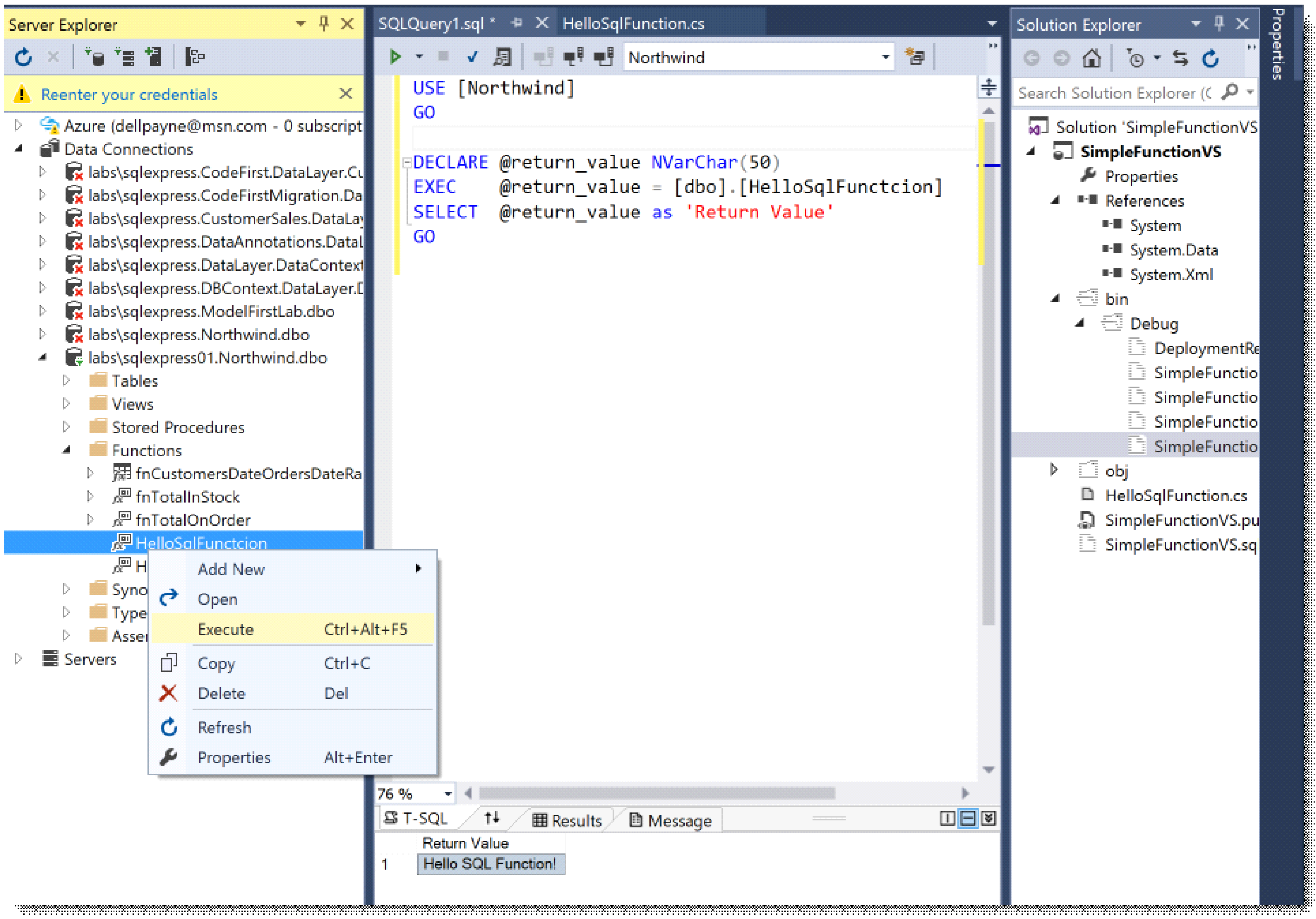
```
Solution 'SimpleFunctionVS' (1 project)
  SimpleFunctionVS
    Properties
    References
      System
      System.Data
      System.Xml
    bin
      Debug
        DeploymentReport.txt
        SimpleFunctionVS.dacpac
        SimpleFunctionVS.dll
        SimpleFunctionVS.pdb
        SimpleFunctionVS.publish.sql
    obj
    HelloSqlFunction.cs
    SimpleFunctionVS.publish.xml
    SimpleFunctionVS.sqlproj.user
```

Connection Ready | (localdb)\ProjectsV13 | LABS\dellp | SimpleFunctionVS | 00:00:00 | 0 rows

# Execute VS Function

Monday, May 29, 2017 11:36 PM

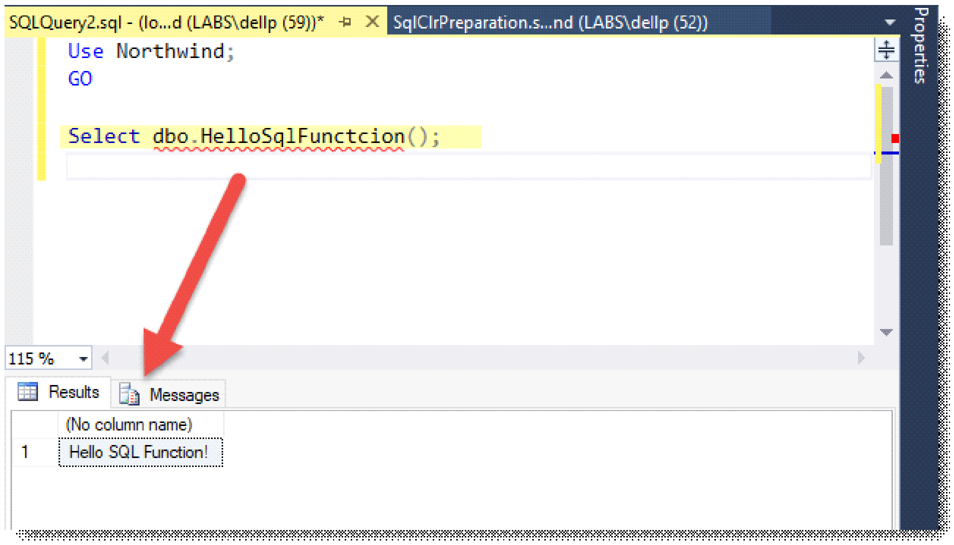
- [ ] In Visual Studio make a connection and execute from Server Explorer



```
USE [Northwind]
GO

DECLARE @return_value NVarChar(50)
EXEC    @return_value = [dbo].[HelloSqlFunctcion]
SELECT  @return_value as 'Return Value'
GO
```

```
  Return Value
1 Hello SQL Function!
```

- [ ] Execute in SSMS


SQLQuery2.sql - (lo...d (LABS\dellp (59))*
SqlClrPreparation.s...nd (LABS\dellp (52))
Properties
115 %
Results
Messages

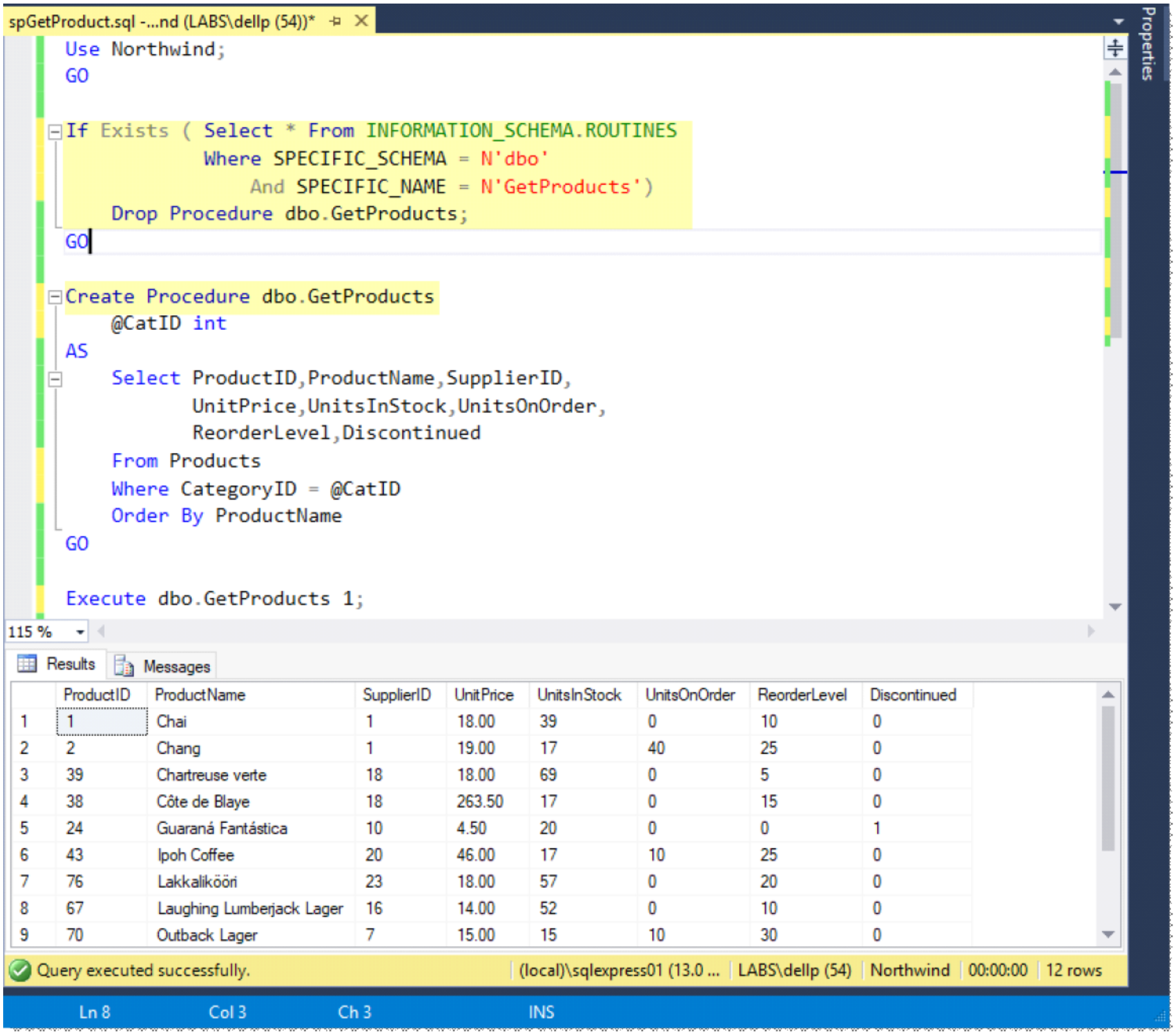
```
Use Northwind;
GO

Select dbo.HelloSqlFunctcion();
```

```
   (No column name)
1  Hello SQL Function!
```

Use

# Create Stored Procedure

Tuesday, May 30, 2017 4:53 PM



spGetProduct.sql -...nd (LABS\dellp (54))*

```
Use Northwind;
GO

If Exists ( Select * From INFORMATION_SCHEMA.ROUTINES
            Where SPECIFIC_SCHEMA = N'dbo'
                And SPECIFIC_NAME = N'GetProducts')
    Drop Procedure dbo.GetProducts;
GO

Create Procedure dbo.GetProducts
    @CatID int
AS
    Select ProductID,ProductName,SupplierID,
           UnitPrice,UnitsInStock,UnitsOnOrder,
           ReorderLevel,Discontinued
    From Products
    Where CategoryID = @CatID
    Order By ProductName
GO

Execute dbo.GetProducts 1;
```

115 %

Results | Messages

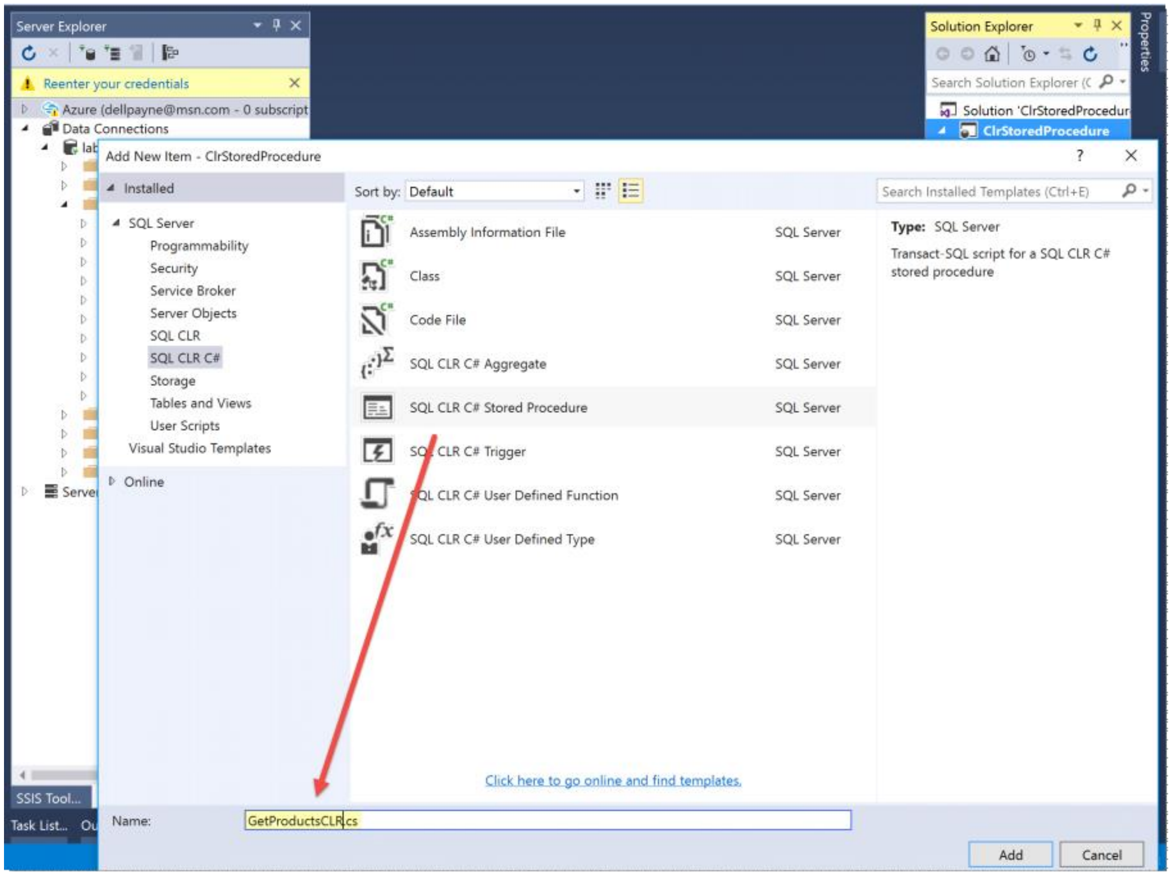
|  | ProductID | ProductName | SupplierID | UnitPrice | UnitsInStock | UnitsOnOrder | ReorderLevel | Discontinued |
|---|---|---|---|---|---|---|---|---|
| 1 | 1 | Chai | 1 | 18.00 | 39 | 0 | 10 | 0 |
| 2 | 2 | Chang | 1 | 19.00 | 17 | 40 | 25 | 0 |
| 3 | 39 | Chartreuse verte | 18 | 18.00 | 69 | 0 | 5 | 0 |
| 4 | 38 | Côte de Blaye | 18 | 263.50 | 17 | 0 | 15 | 0 |
| 5 | 24 | Guaraná Fantástica | 10 | 4.50 | 20 | 0 | 0 | 1 |
| 6 | 43 | Ipoh Coffee | 20 | 46.00 | 17 | 10 | 25 | 0 |
| 7 | 76 | Lakkalikööri | 23 | 18.00 | 57 | 0 | 20 | 0 |
| 8 | 67 | Laughing Lumberjack Lager | 16 | 14.00 | 52 | 0 | 10 | 0 |
| 9 | 70 | Outback Lager | 7 | 15.00 | 15 | 10 | 30 | 0 |

Query executed successfully. | (local)\sqlexpress01 (13.0 ... | LABS\dellp (54) | Northwind | 00:00:00 | 12 rows

Ln 8 Col 3 Ch 3 INS

# Create SP CLR

Tuesday, May 30, 2017 5:12 PM



Add New Item - ClrStoredProcedure

Installed
- SQL Server
  - Programmability
  - Security
  - Service Broker
  - Server Objects
  - SQL CLR
  - SQL CLR C#
  - Storage
  - Tables and Views
  - User Scripts
- Visual Studio Templates

Online

Sort by: Default

Search Installed Templates (Ctrl+E)

| | |
|---|---|
| Assembly Information File | SQL Server |
| Class | SQL Server |
| Code File | SQL Server |
| SQL CLR C# Aggregate | SQL Server |
| SQL CLR C# Stored Procedure | SQL Server |
| SQL CLR C# Trigger | SQL Server |
| SQL CLR C# User Defined Function | SQL Server |
| SQL CLR C# User Defined Type | SQL Server |

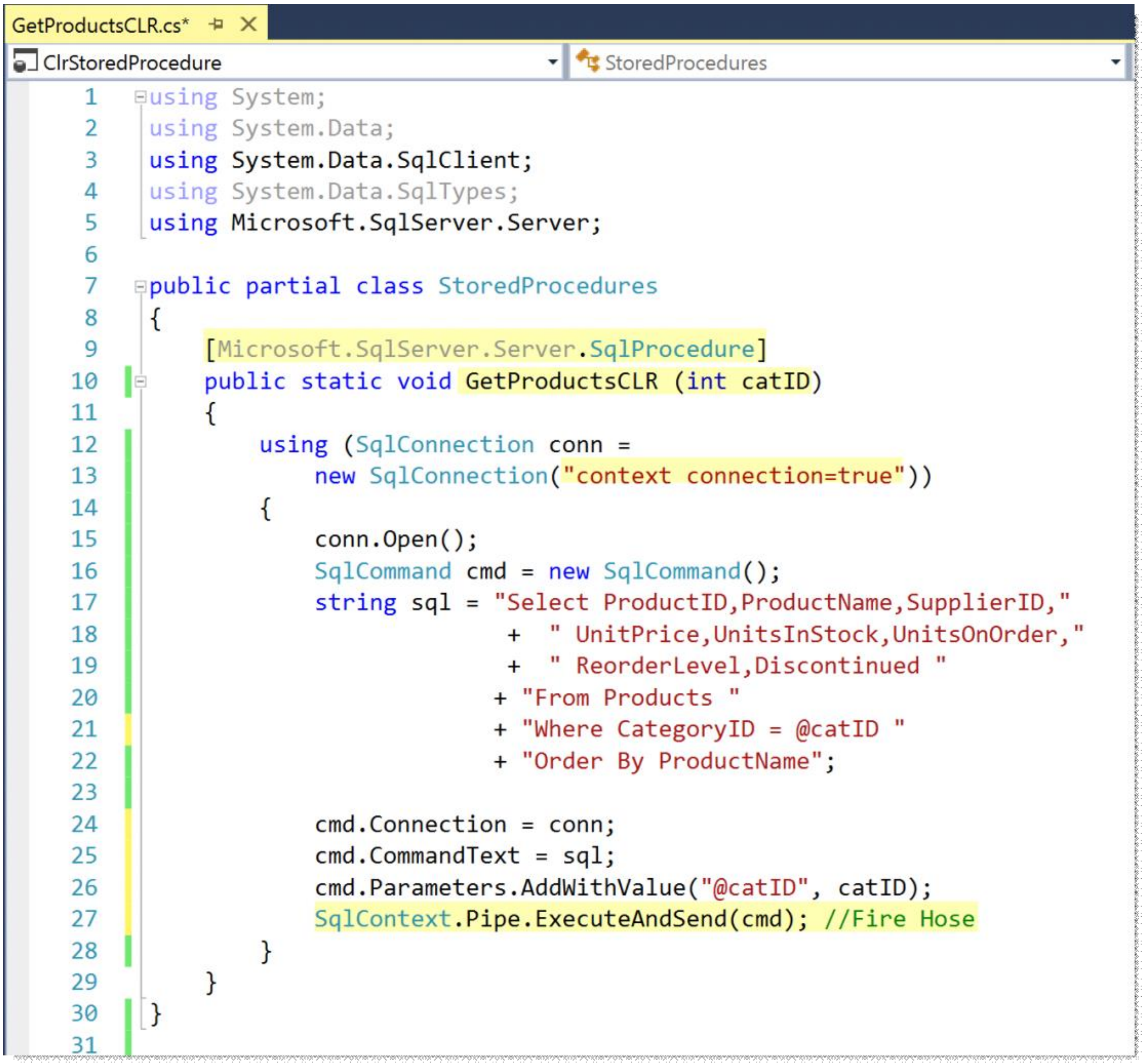
**Type:** SQL Server

Transact-SQL script for a SQL CLR C# stored procedure

Click here to go online and find templates.

Name: GetProductsCLR.cs

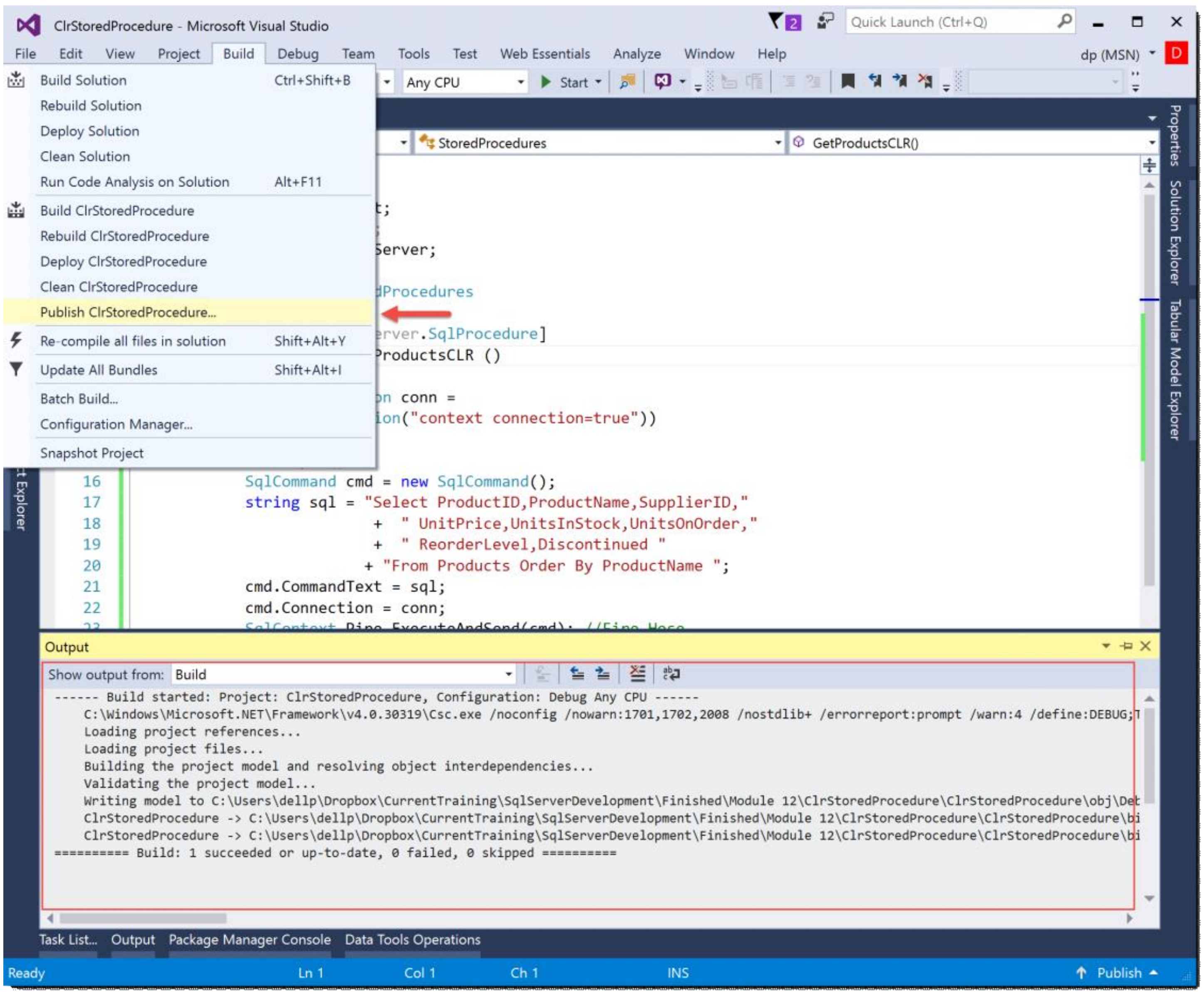
Add Cancel



```
using System;
using System.Data;
using System.Data.SqlClient;
using System.Data.SqlTypes;
using Microsoft.SqlServer.Server;

public partial class StoredProcedures
{
    [Microsoft.SqlServer.Server.SqlProcedure]
    public static void GetProductsCLR (int catID)
    {
        using (SqlConnection conn =
            new SqlConnection("context connection=true"))
        {
            conn.Open();
            SqlCommand cmd = new SqlCommand();
            string sql = "Select ProductID,ProductName,SupplierID,"
                          +  " UnitPrice,UnitsInStock,UnitsOnOrder,"
                          +  " ReorderLevel,Discontinued "
                         + "From Products "
                         + "Where CategoryID = @catID "
                         + "Order By ProductName";

            cmd.Connection = conn;
            cmd.CommandText = sql;
            cmd.Parameters.AddWithValue("@catID", catID);
            SqlContext.Pipe.ExecuteAndSend(cmd); //Fire Hose
        }
    }
}
```

# Build and Publish

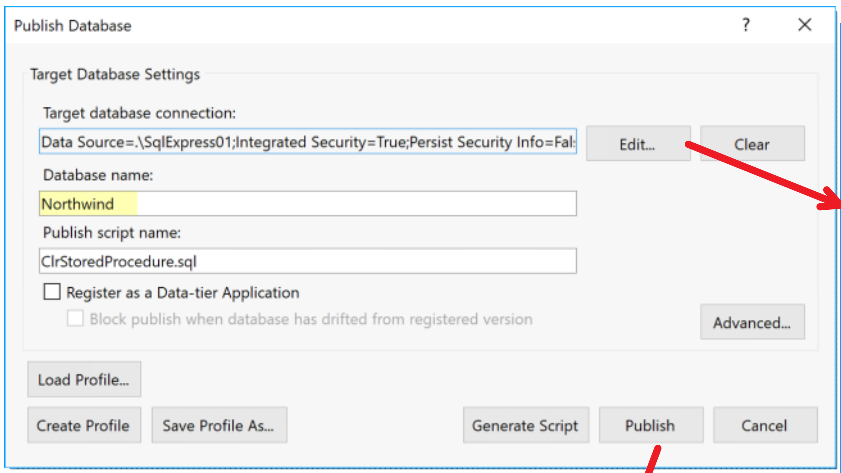
Tuesday, May 30, 2017 5:14 PM



ClrStoredProcedure - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Team Tools Test Web Essentials Analyze Window Help
dp (MSN)
Build Solution Ctrl+Shift+B
Rebuild Solution
Deploy Solution
Clean Solution
Run Code Analysis on Solution Alt+F11
Build ClrStoredProcedure
Rebuild ClrStoredProcedure
Deploy ClrStoredProcedure
Clean ClrStoredProcedure
Publish ClrStoredProcedure...
Re-compile all files in solution Shift+Alt+Y
Update All Bundles Shift+Alt+I
Batch Build...
Configuration Manager...
Snapshot Project
Any CPU
Start
StoredProcedures
GetProductsCLR()
Properties
Solution Explorer
Tabular Model Explorer
Output
Show output from: Build
Task List... Output Package Manager Console Data Tools Operations
Ready Ln 1 Col 1 Ch 1 INS
Publish

```
t;
;
erver;

dProcedures

erver.SqlProcedure]
roductsCLR ()

on conn =
ion("context connection=true"))

            SqlCommand cmd = new SqlCommand();
            string sql = "Select ProductID,ProductName,SupplierID,"
                        +  " UnitPrice,UnitsInStock,UnitsOnOrder,"
                        +  " ReorderLevel,Discontinued "
                       + "From Products Order By ProductName ";
            cmd.CommandText = sql;
            cmd.Connection = conn;
```

```
------ Build started: Project: ClrStoredProcedure, Configuration: Debug Any CPU ------
    C:\Windows\Microsoft.NET\Framework\v4.0.30319\Csc.exe /noconfig /nowarn:1701,1702,2008 /nostdlib+ /errorreport:prompt /warn:4 /define:DEBUG;T
    Loading project references...
    Loading project files...
    Building the project model and resolving object interdependencies...
    Validating the project model...
    Writing model to C:\Users\dellp\Dropbox\CurrentTraining\SqlServerDevelopment\Finished\Module 12\ClrStoredProcedure\ClrStoredProcedure\obj\Det
    ClrStoredProcedure -> C:\Users\dellp\Dropbox\CurrentTraining\SqlServerDevelopment\Finished\Module 12\ClrStoredProcedure\ClrStoredProcedure\bi
    ClrStoredProcedure -> C:\Users\dellp\Dropbox\CurrentTraining\SqlServerDevelopment\Finished\Module 12\ClrStoredProcedure\ClrStoredProcedure\bi
========== Build: 1 succeeded or up-to-date, 0 failed, 0 skipped ==========
```



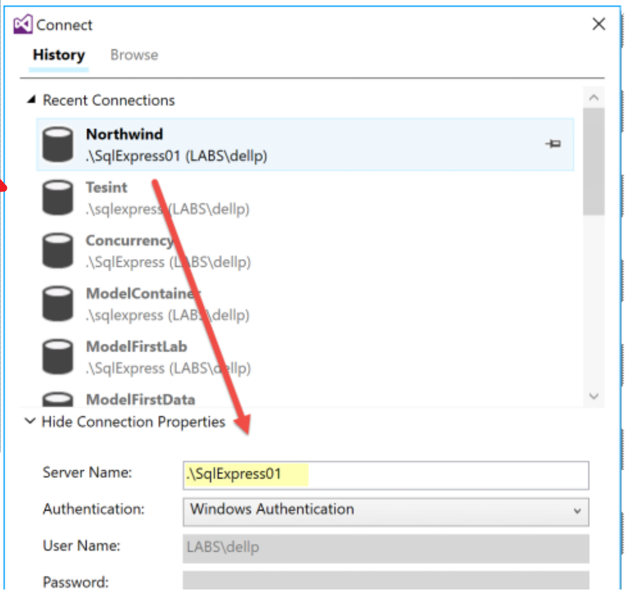
Target database connection: Data Source=.\SqlExpress01;Integrated Security=True;Persist Security Info=Fal

Database name: Northwind

Publish script name: ClrStoredProcedure.sql

☐ Register as a Data-tier Application

☐ Block publish when database has drifted from registered version



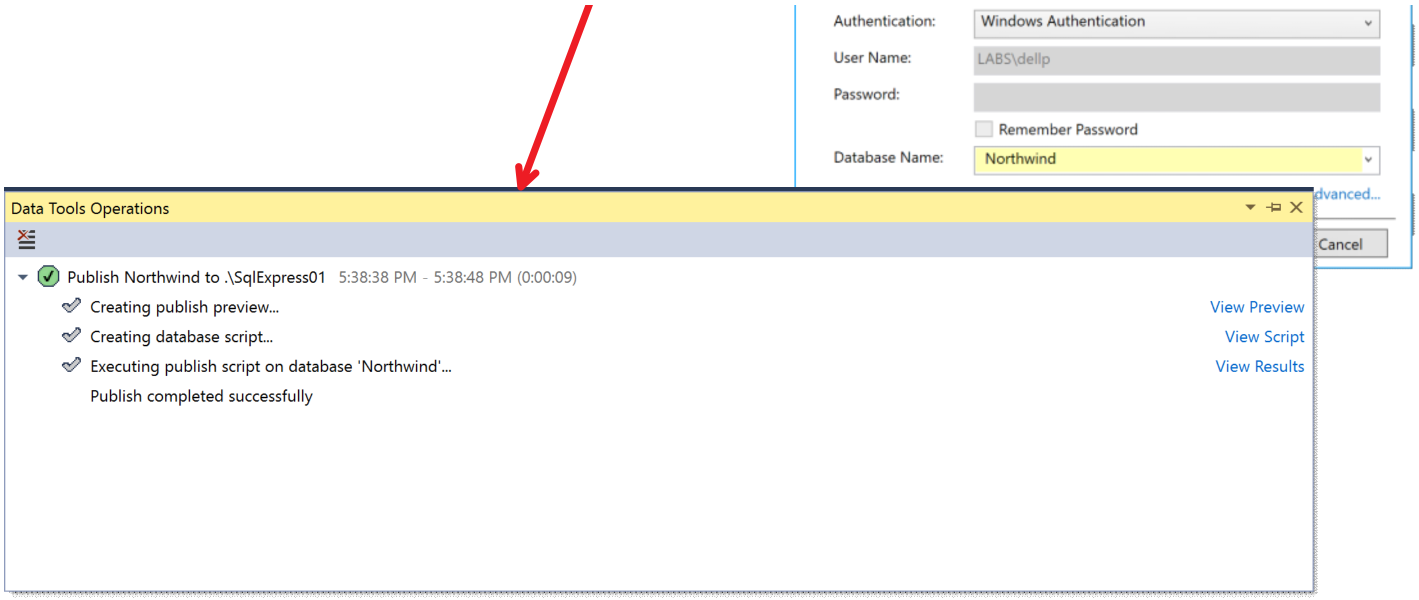
Northwind .\SqlExpress01 (LABS\dellp)
Tesint .\sqlexpress (LABS\dellp)
Concurrency .\SqlExpress (LABS\dellp)
ModelContainer .\sqlexpress (LABS\dellp)
ModelFirstLab .\SqlExpress (LABS\dellp)
ModelFirstData

Server Name: .\SqlExpress01

Authentication: Windows Authentication

User Name: LABS\dellp

Password:


Authentication: Windows Authentication

User Name: LABS\dellp

Password:

Remember Password

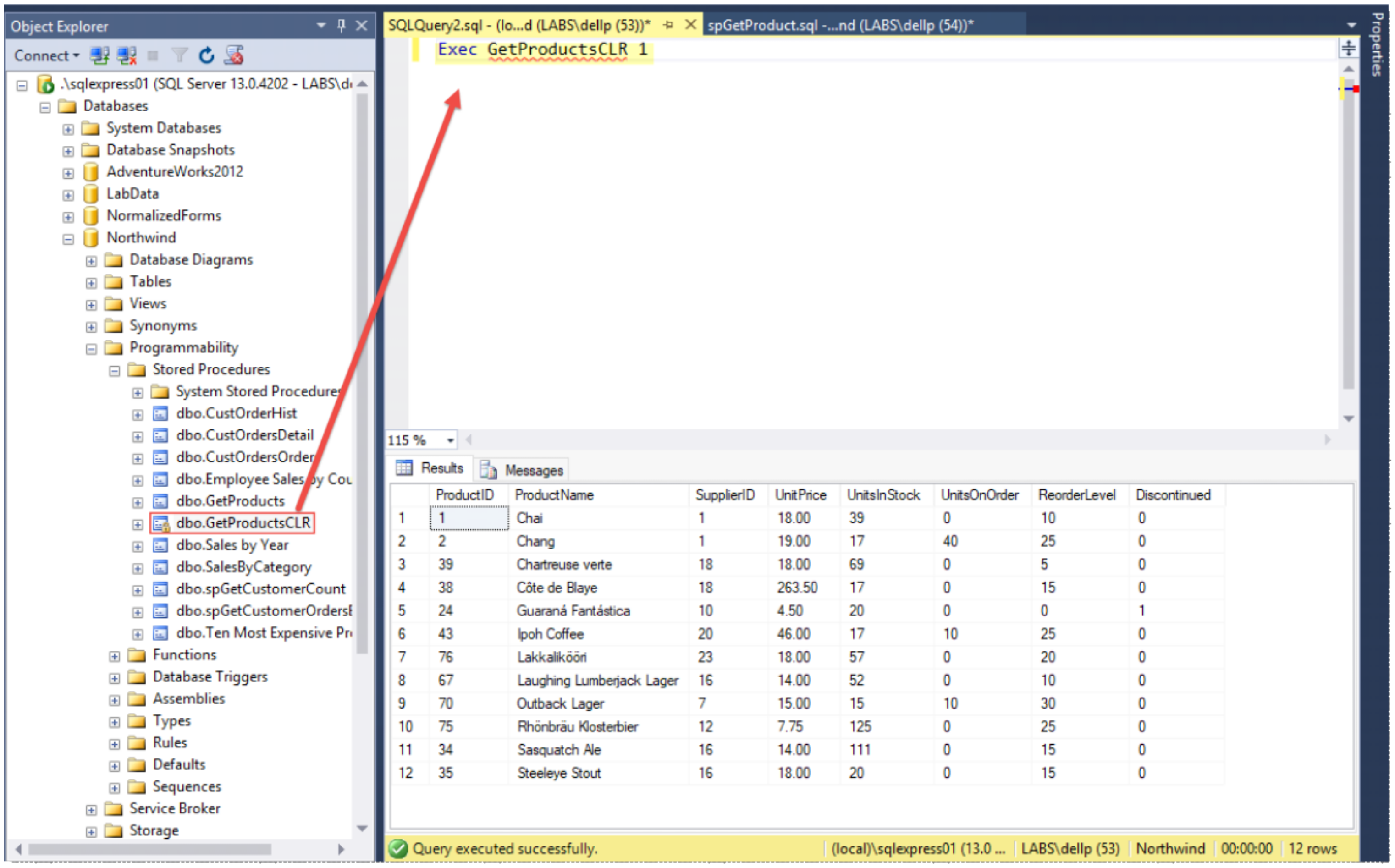
Database Name: Northwind

Data Tools Operations

```
Publish Northwind to .\SqlExpress01   5:38:38 PM - 5:38:48 PM (0:00:09)
    Creating publish preview...                                    View Preview
    Creating database script...                                    View Script
    Executing publish script on database 'Northwind'...            View Results
    Publish completed successfully
```

# Execute CLR Procedure

Tuesday, May 30, 2017 5:40 PM



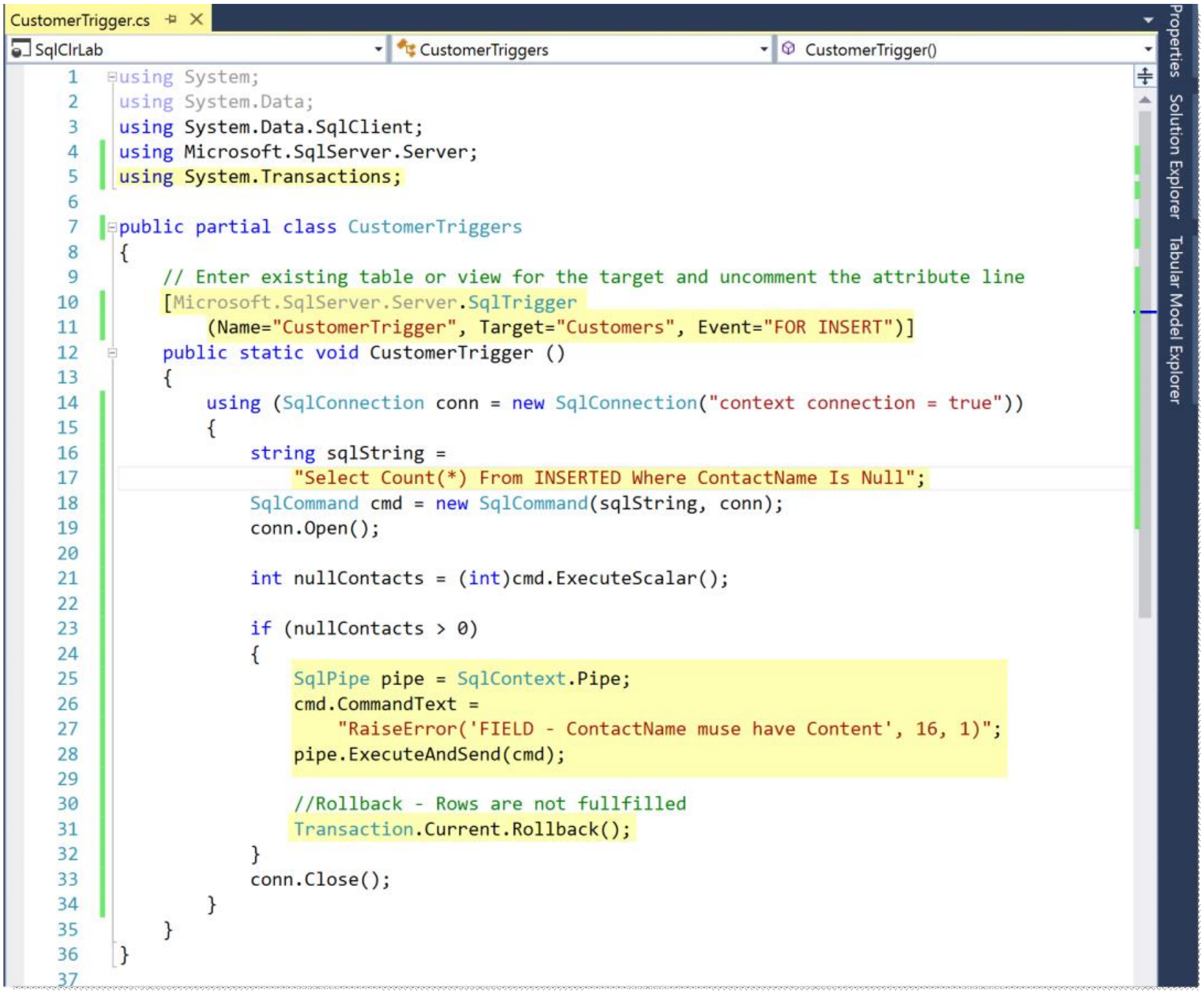
```
Exec GetProductsCLR 1
```

| | ProductID | ProductName | SupplierID | UnitPrice | UnitsInStock | UnitsOnOrder | ReorderLevel | Discontinued |
|---|---|---|---|---|---|---|---|---|
| 1 | 1 | Chai | 1 | 18.00 | 39 | 0 | 10 | 0 |
| 2 | 2 | Chang | 1 | 19.00 | 17 | 40 | 25 | 0 |
| 3 | 39 | Chartreuse verte | 18 | 18.00 | 69 | 0 | 5 | 0 |
| 4 | 38 | Côte de Blaye | 18 | 263.50 | 17 | 0 | 15 | 0 |
| 5 | 24 | Guaraná Fantástica | 10 | 4.50 | 20 | 0 | 0 | 1 |
| 6 | 43 | Ipoh Coffee | 20 | 46.00 | 17 | 10 | 25 | 0 |
| 7 | 76 | Lakkalikööri | 23 | 18.00 | 57 | 0 | 20 | 0 |
| 8 | 67 | Laughing Lumberjack Lager | 16 | 14.00 | 52 | 0 | 10 | 0 |
| 9 | 70 | Outback Lager | 7 | 15.00 | 15 | 10 | 30 | 0 |
| 10 | 75 | Rhönbräu Klosterbier | 12 | 7.75 | 125 | 0 | 25 | 0 |
| 11 | 34 | Sasquatch Ale | 16 | 14.00 | 111 | 0 | 15 | 0 |
| 12 | 35 | Steeleye Stout | 16 | 18.00 | 20 | 0 | 15 | 0 |

Query executed successfully. | (local)\sqlexpress01 (13.0 ... | LABS\dellp (53) | Northwind | 00:00:00 | 12 rows

# Create Trigger & Publish

Wednesday, May 31, 2017 10:24 PM



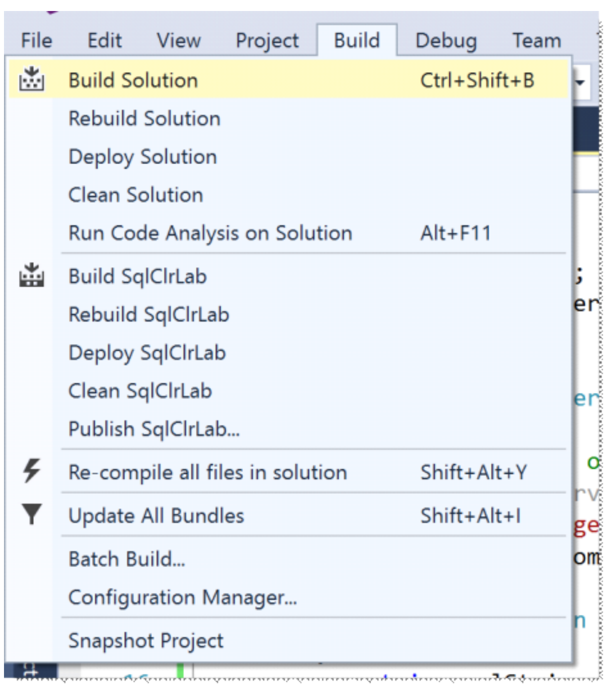
CustomerTrigger.cs

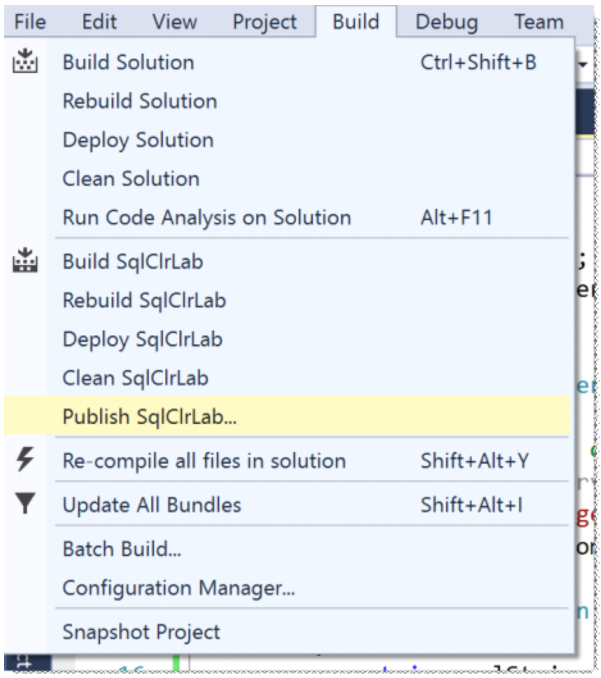
SqlClrLab | CustomerTriggers | CustomerTrigger()

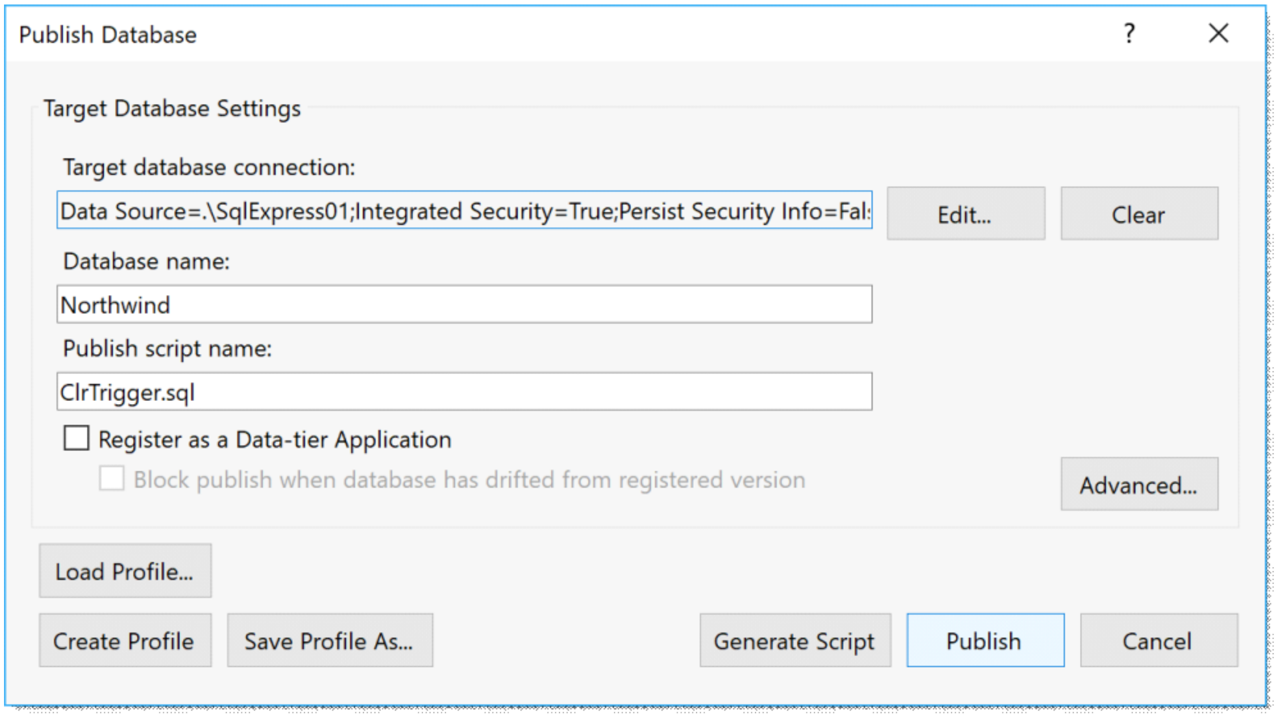
Properties | Solution Explorer | Tabular Model Explorer

```
using System;
using System.Data;
using System.Data.SqlClient;
using Microsoft.SqlServer.Server;
using System.Transactions;

public partial class CustomerTriggers
{
    // Enter existing table or view for the target and uncomment the attribute line
    [Microsoft.SqlServer.Server.SqlTrigger
        (Name="CustomerTrigger", Target="Customers", Event="FOR INSERT")]
    public static void CustomerTrigger ()
    {
        using (SqlConnection conn = new SqlConnection("context connection = true"))
        {
            string sqlString =
                "Select Count(*) From INSERTED Where ContactName Is Null";
            SqlCommand cmd = new SqlCommand(sqlString, conn);
            conn.Open();

            int nullContacts = (int)cmd.ExecuteScalar();

            if (nullContacts > 0)
            {
                SqlPipe pipe = SqlContext.Pipe;
                cmd.CommandText =
                    "RaiseError('FIELD - ContactName muse have Content', 16, 1)";
                pipe.ExecuteAndSend(cmd);

                //Rollback - Rows are not fullfilled
                Transaction.Current.Rollback();
            }
            conn.Close();
        }
    }
}
```

☐ Build and Publish






Publish Database

Target Database Settings

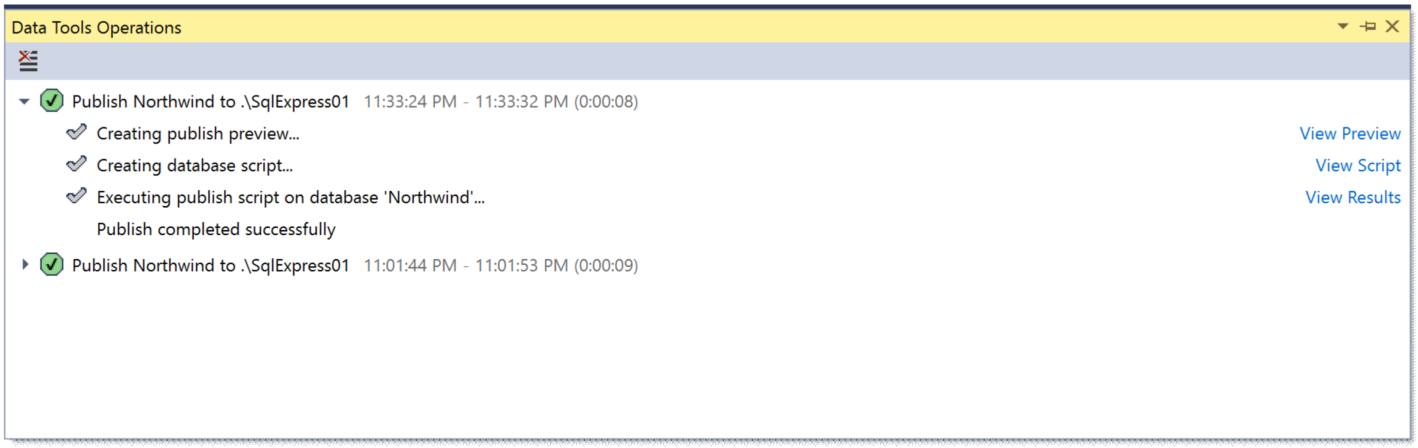
Target database connection: Data Source=.\SqlExpress01;Integrated Security=True;Persist Security Info=Fal:

Database name: Northwind

Publish script name: ClrTrigger.sql

☐ Register as a Data-tier Application

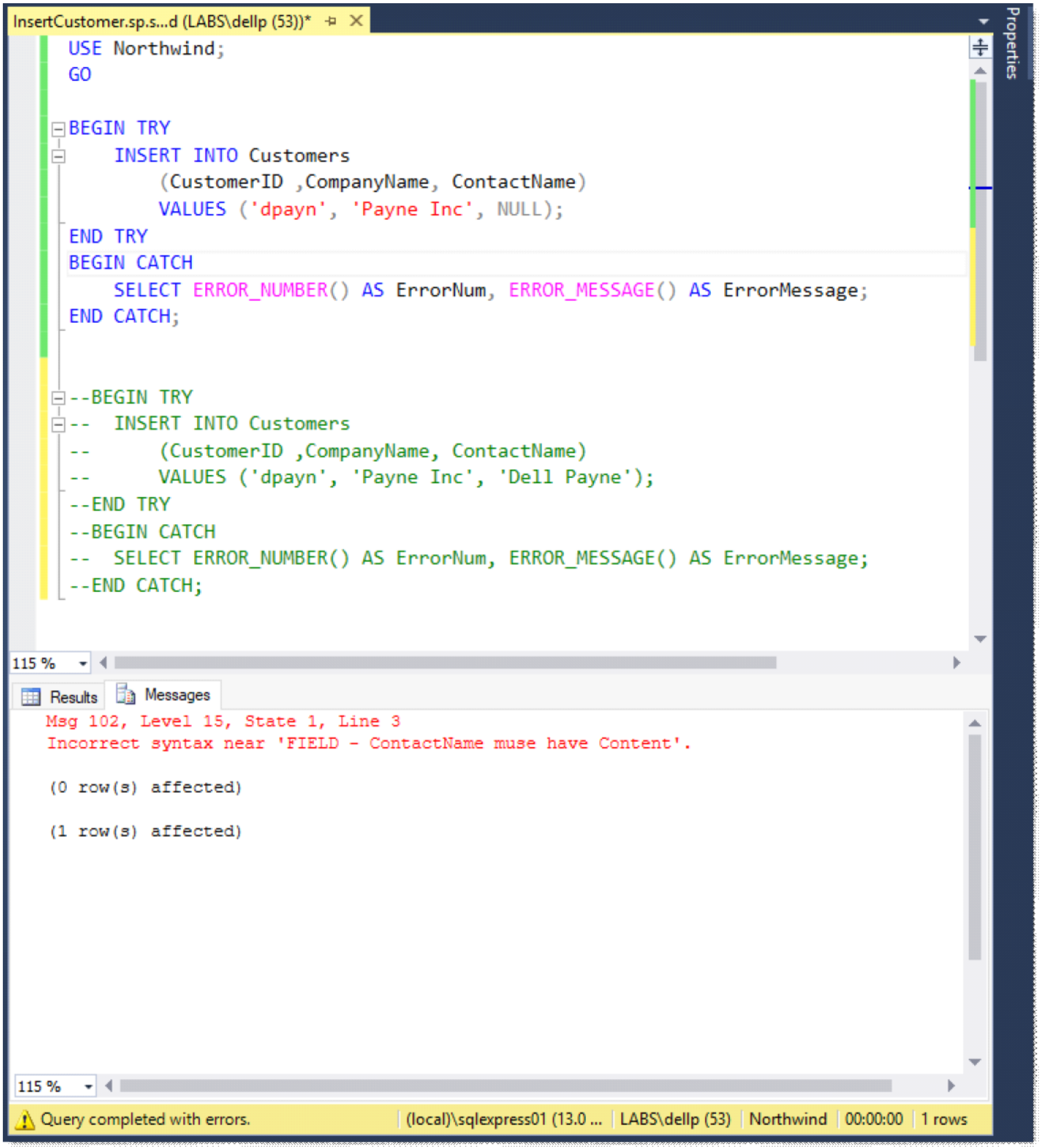
☐ Block publish when database has drifted from registered version


Data Tools Operations

```
✓ Publish Northwind to .\SqlExpress01   11:33:24 PM - 11:33:32 PM (0:00:08)
    ✓ Creating publish preview...                                   View Preview
    ✓ Creating database script...                                   View Script
    ✓ Executing publish script on database 'Northwind'...           View Results
      Publish completed successfully
✓ Publish Northwind to .\SqlExpress01   11:01:44 PM - 11:01:53 PM (0:00:09)
```

# Test Trigger

Wednesday, May 31, 2017 11:28 PM



```sql
USE Northwind;
GO

BEGIN TRY
    INSERT INTO Customers
        (CustomerID ,CompanyName, ContactName)
        VALUES ('dpayn', 'Payne Inc', NULL);
END TRY
BEGIN CATCH
    SELECT ERROR_NUMBER() AS ErrorNum, ERROR_MESSAGE() AS ErrorMessage;
END CATCH;


--BEGIN TRY
--    INSERT INTO Customers
--        (CustomerID ,CompanyName, ContactName)
--        VALUES ('dpayn', 'Payne Inc', 'Dell Payne');
--END TRY
--BEGIN CATCH
--    SELECT ERROR_NUMBER() AS ErrorNum, ERROR_MESSAGE() AS ErrorMessage;
--END CATCH;
```

```
Msg 102, Level 15, State 1, Line 3
Incorrect syntax near 'FIELD - ContactName muse have Content'.

(0 row(s) affected)

(1 row(s) affected)
```

Query completed with errors. | (local)\sqlexpress01 (13.0 ... | LABS\dellp (53) | Northwind | 00:00:00 | 1 rows

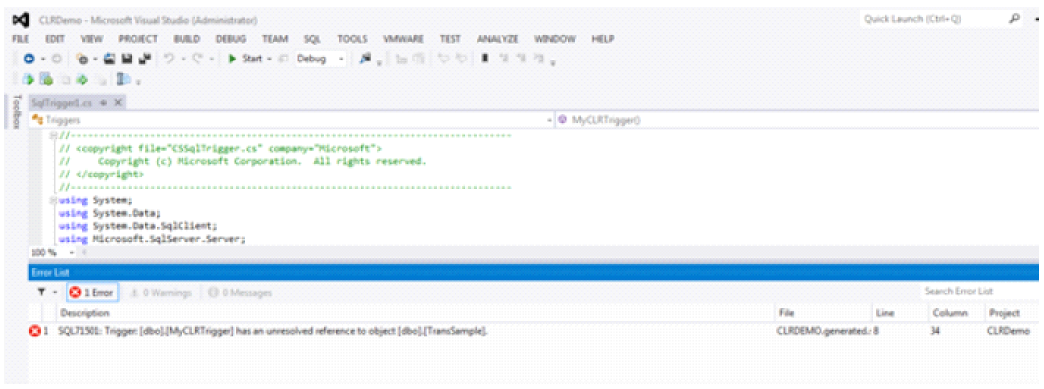
# Potential Error FIX

Wednesday, May 31, 2017 11:29 PM

http://umashanthan.blogspot.com/2014/03/how-to-create-and-deploy-clr-in-sql.html

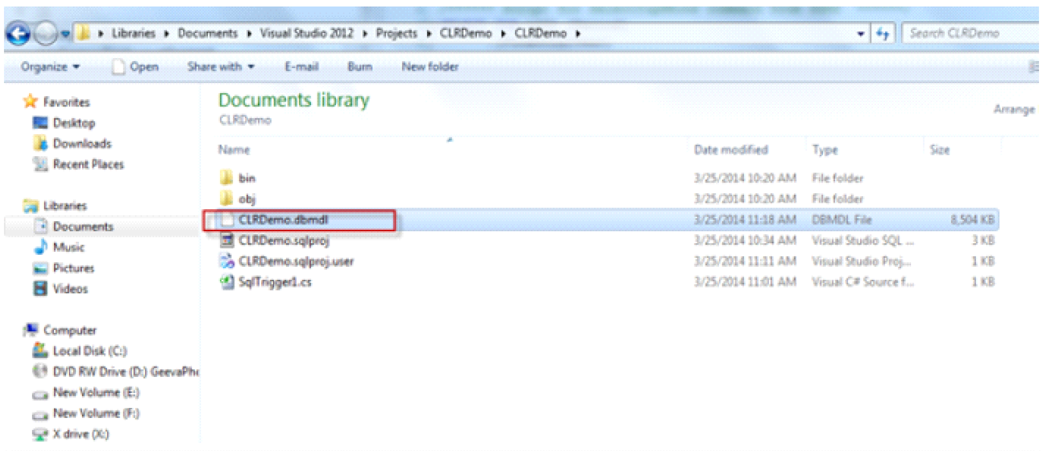
When you try to deploy it, you might get error an error as:
SQL71501: Trigger: [dbo].[MyCLRTrigger] has an unresolved reference to object [dbo].[TransSample]

This problem is due to project does not have proper metadata about the Target Database object for that import the target database under project to do it, follow the following steps:
Close the project and locate to the project folder and delete the *.dbmdl file, then open the project aging and import the database by right click on project and under import as shown below screen dump. Once you have done this you would be able to deploy the CLR successfully.



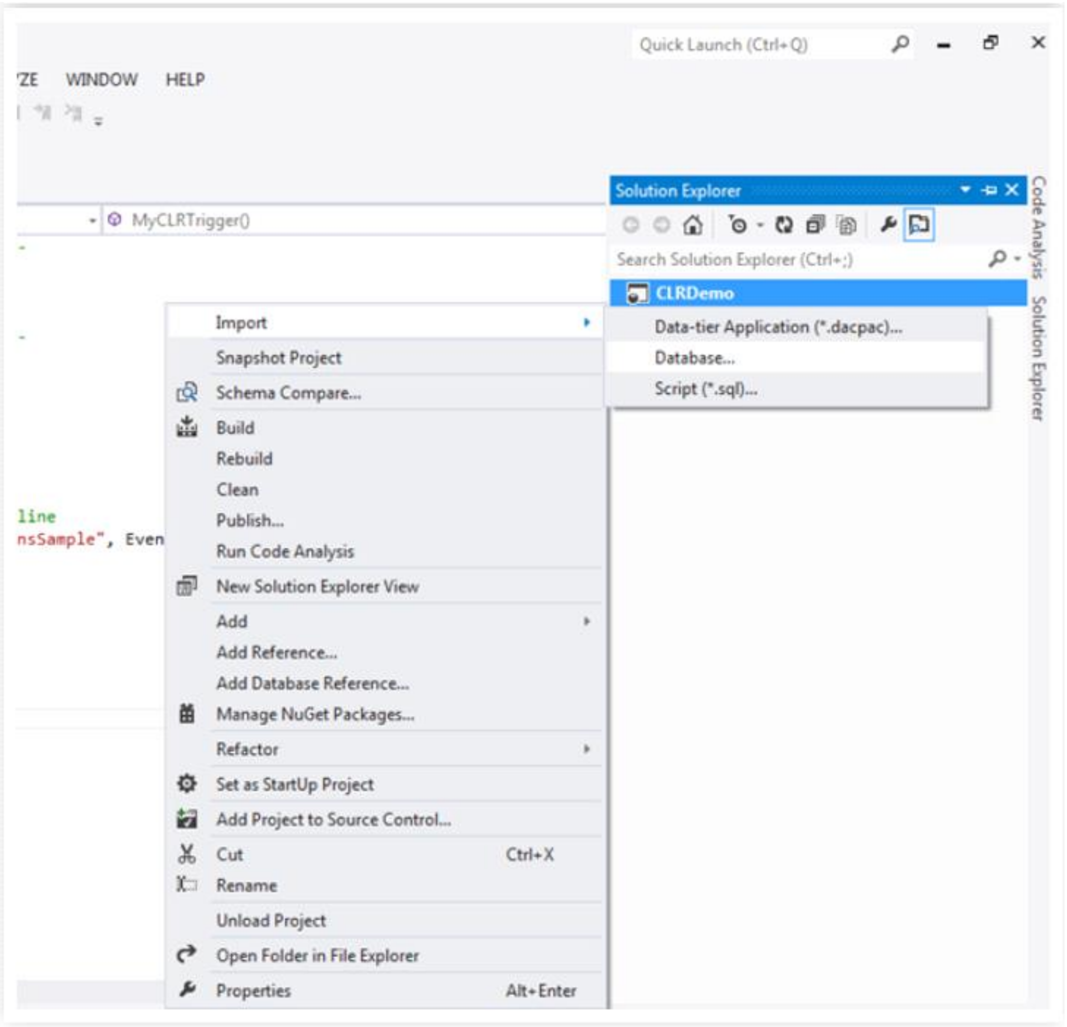
```
//------------------------------------------------------------------------------
// <copyright file="CSSqlTrigger.cs" company="Microsoft">
//     Copyright (c) Microsoft Corporation.  All rights reserved.
// </copyright>
//------------------------------------------------------------------------------
using System;
using System.Data;
using System.Data.SqlClient;
using Microsoft.SqlServer.Server;
```

| | Description | File | Line | Column | Project |
|---|---|---|---|---|---|
| 1 | SQL71501: Trigger: [dbo].[MyCLRTrigger] has an unresolved reference to object [dbo].[TransSample]. | CLRDEMO.generated.: 8 | | 34 | CLRDemo |



Libraries ▸ Documents ▸ Visual Studio 2012 ▸ Projects ▸ CLRDemo ▸ CLRDemo ▸

| Name | Date modified | Type | Size |
|---|---|---|---|
| bin | 3/25/2014 10:20 AM | File folder | |
| obj | 3/25/2014 10:20 AM | File folder | |
| CLRDemo.dbmdl | 3/25/2014 11:18 AM | DBMDL File | 8,504 KB |
| CLRDemo.sqlproj | 3/25/2014 10:34 AM | Visual Studio SQL ... | 3 KB |
| CLRDemo.sqlproj.user | 3/25/2014 11:11 AM | Visual Studio Proj... | 1 KB |
| SqlTrigger1.cs | 3/25/2014 11:01 AM | Visual C# Source f... | 1 KB |



```
line
nsSample", Even
```