Problem: Adding an existing file that is Unicode (UTF-16 or above) to a Visual Studio Project causes the project to get out-of-sync with SCM Harvest when committing the new changes.
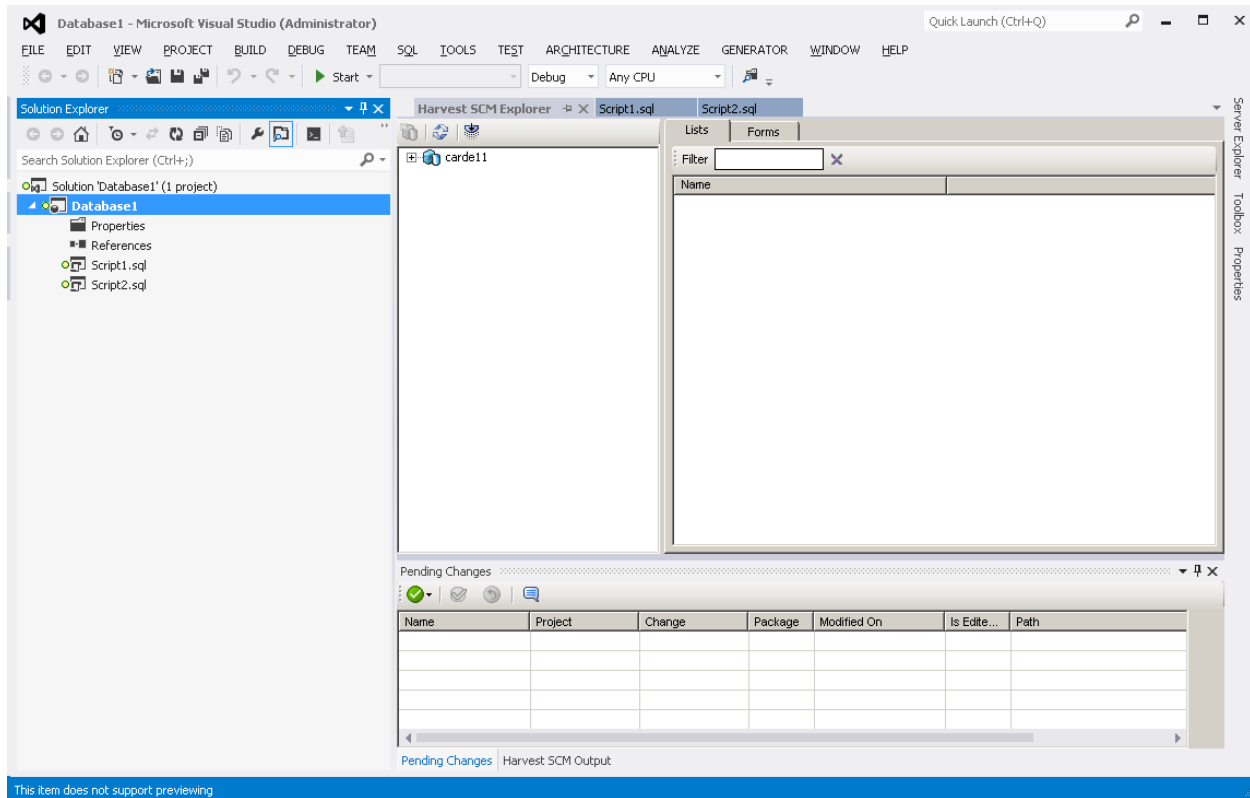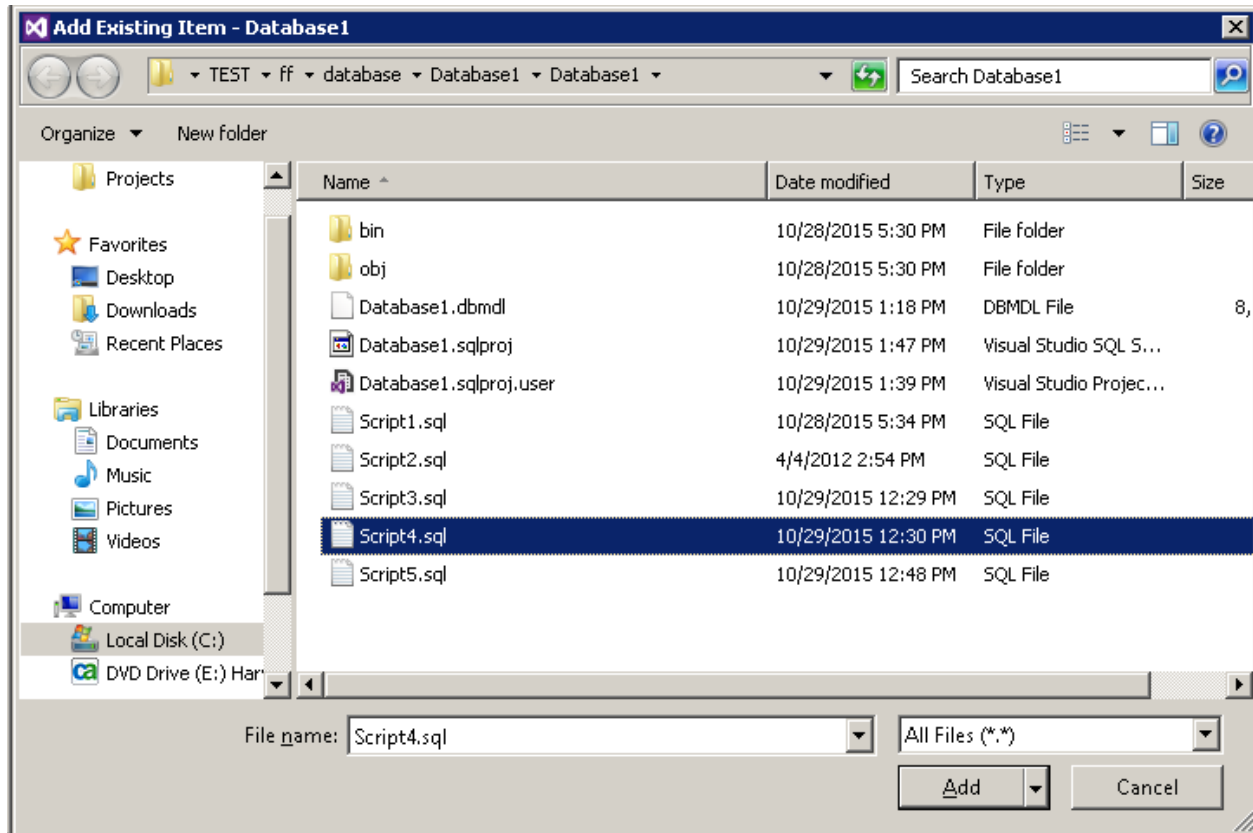
This document explains how the problem can occur and how to recover the Project back in sync with Harvest, convert the new Unicode files to ANSI text, and then re-add them to the project and commit the changes successfully. The screenshots below show this scenario and how to recover.

Steps to Getting the Project out-of-sync

Step 1: Demonstrates how the project file can get out of sync when adding a Unicode file: Open the solution in Visual Studio and login into the Harvest repository normally.
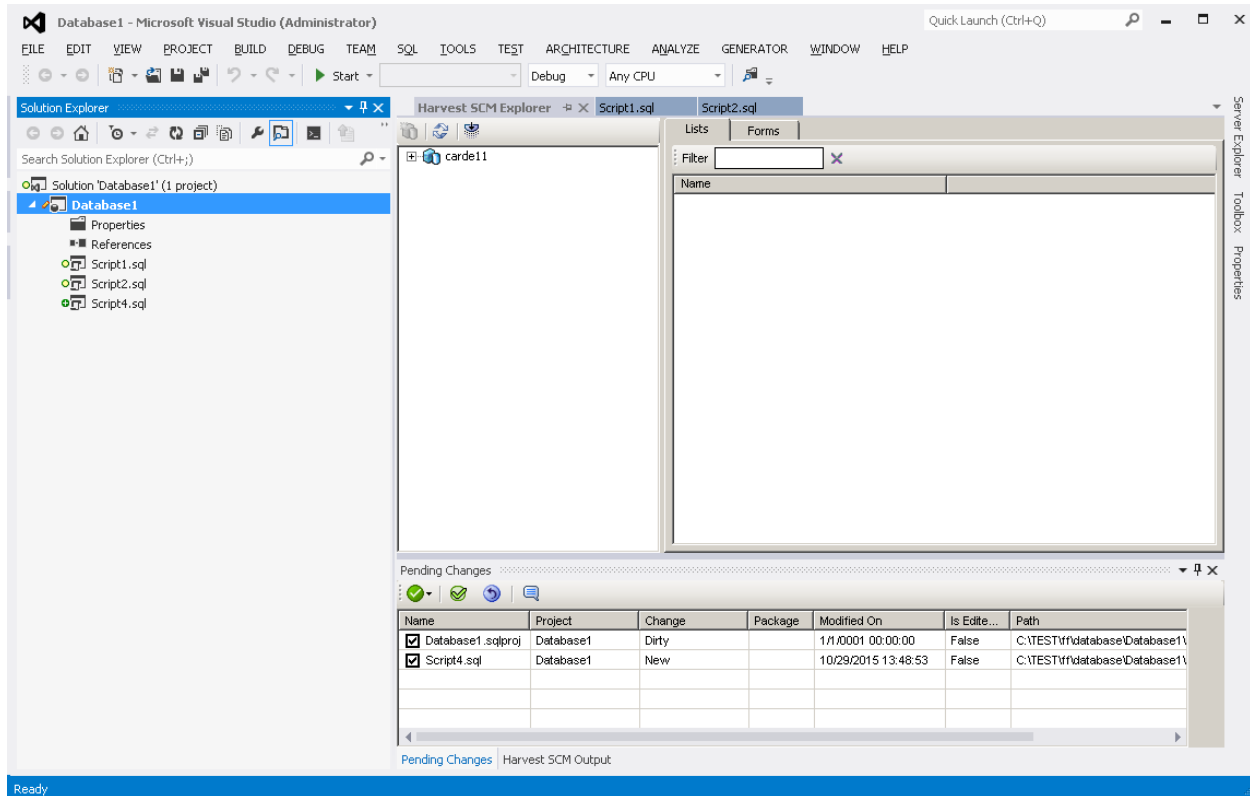
Step2: In this situation the file "Script4.sql" is in Unicode format.

In the Visual Studio Solution explorer, R-click on the Project and select ADD->Existing Item, navigate and select the item then click Add as follows:
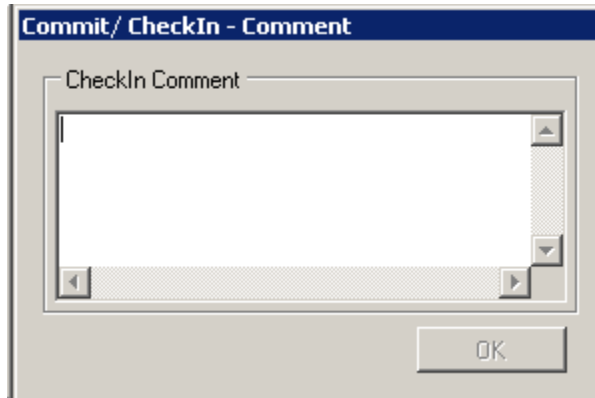
Step3: After adding the new file to the project, Visual Studio Solution Explorer will display as follows with the changes reflected in the "Pending Changes" view:
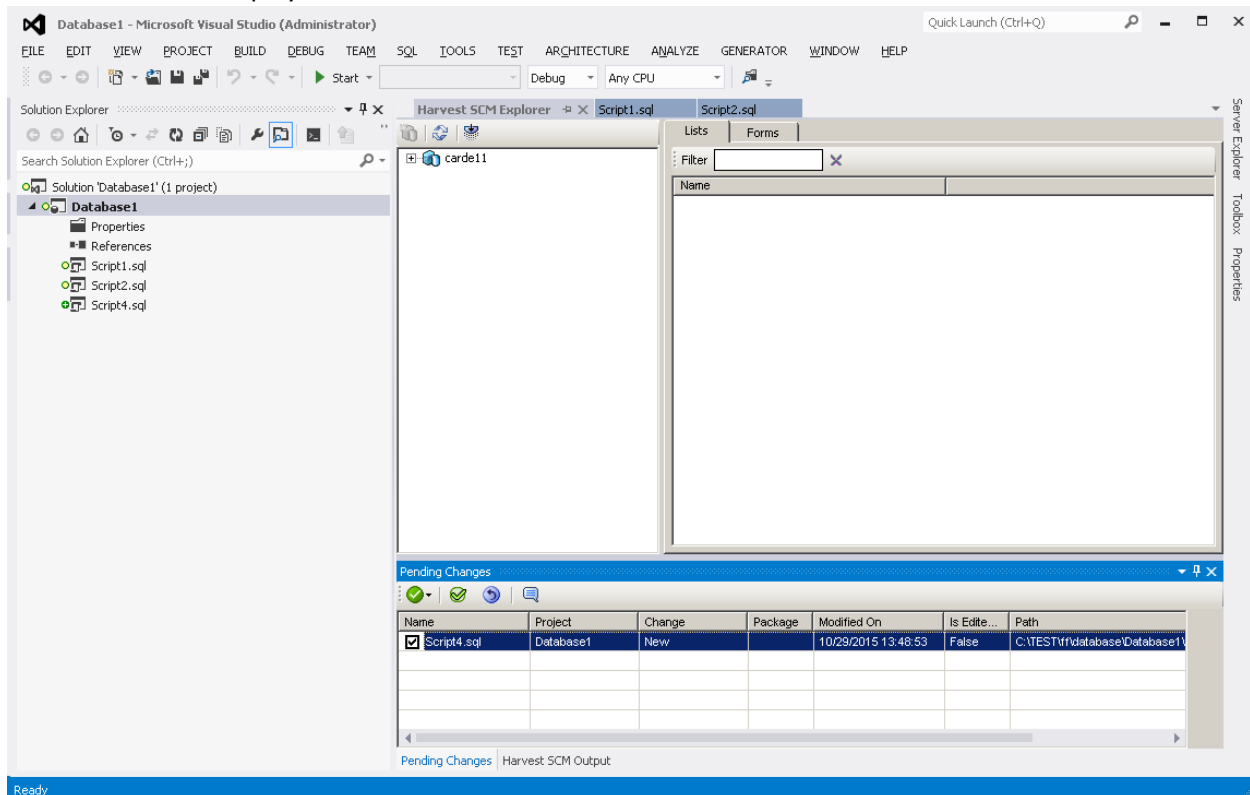

At this point, everything looks normal and ready to commit to Harvest.

Step4: Click the "Commit" button and a progress bar will pop up, then a commit comment dialog box will display requiring you to enter an initial comment (if comment required is configured):
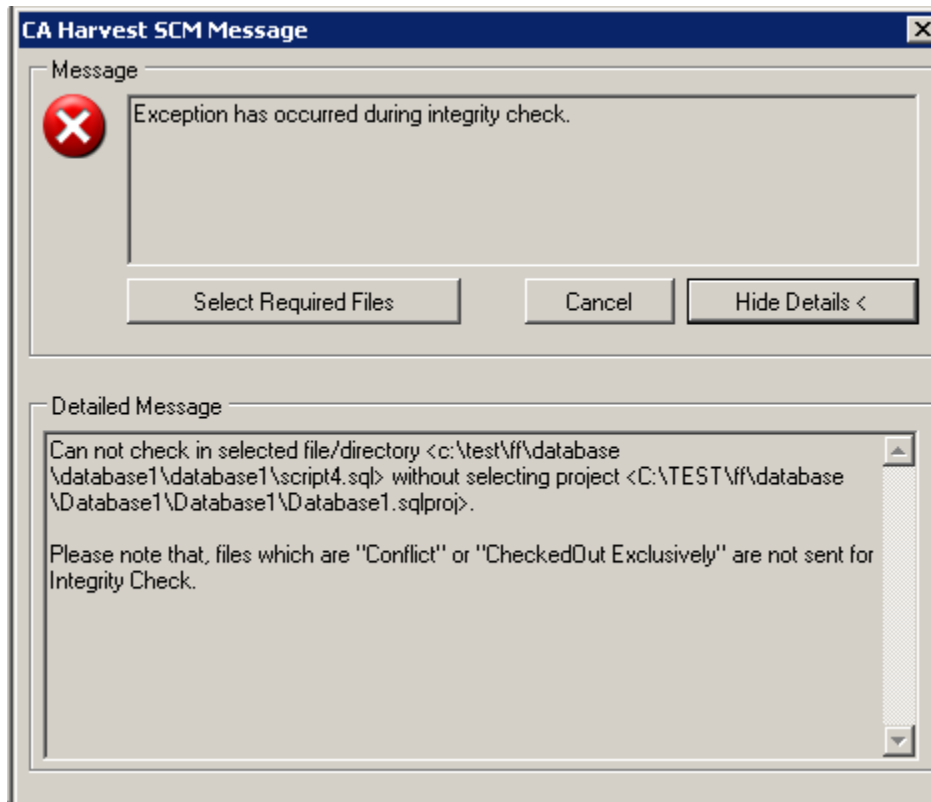

Enter a comment then click the OK button, another progress bar will pop up and then close. Visual Studio will show the Project has been checked in because the pencil glyph next to the Project icon has been replaced with the normal yellow filled green circle glyph (binding glyph), however the newly added Script4.sql file still shows in the "Pending Changes" view. So this file never checked into the repository and no error was displayed!

At this point, the project file is now out-of-sync with the Harvest repository because the local project still thinks that the "Script4.sql" still needs to be added.

Now any subsequent attempts to commit the "Script4.sql" file to the repository results in an Integrity Check failure message:
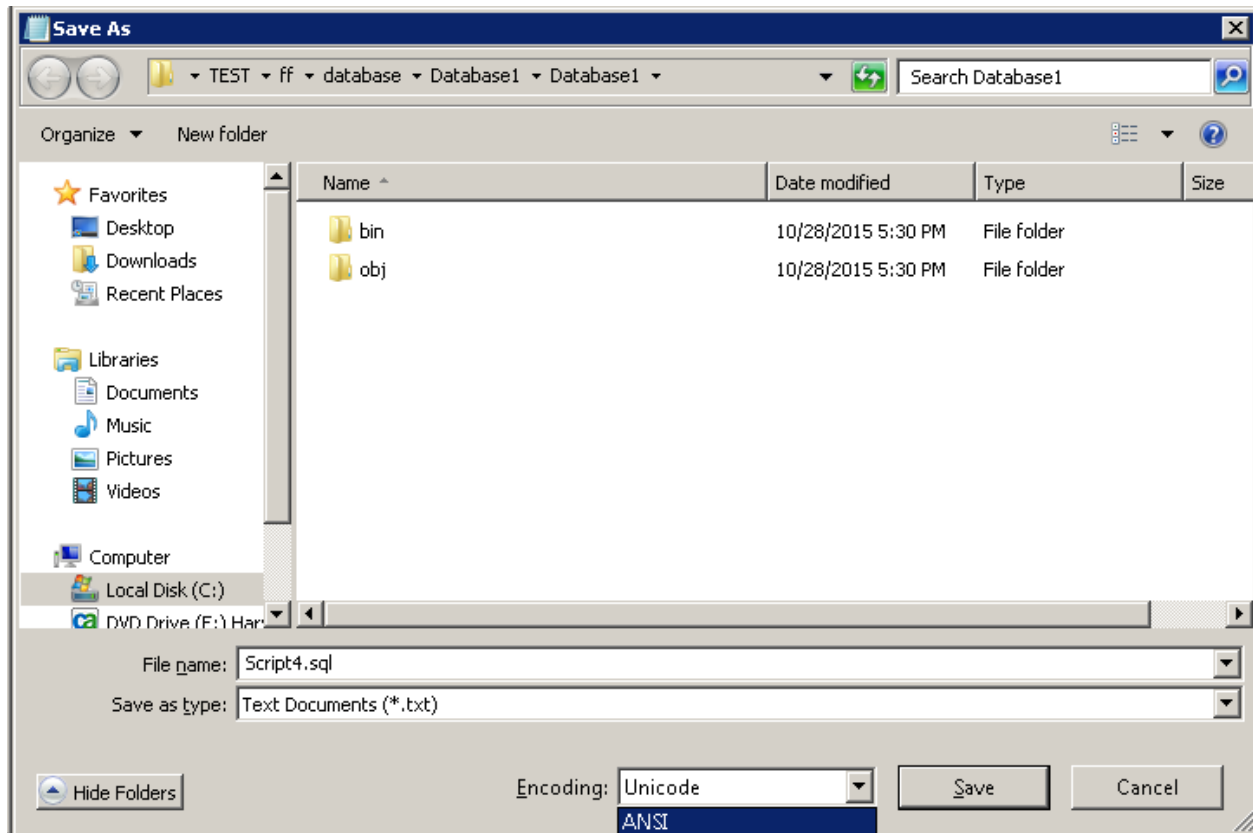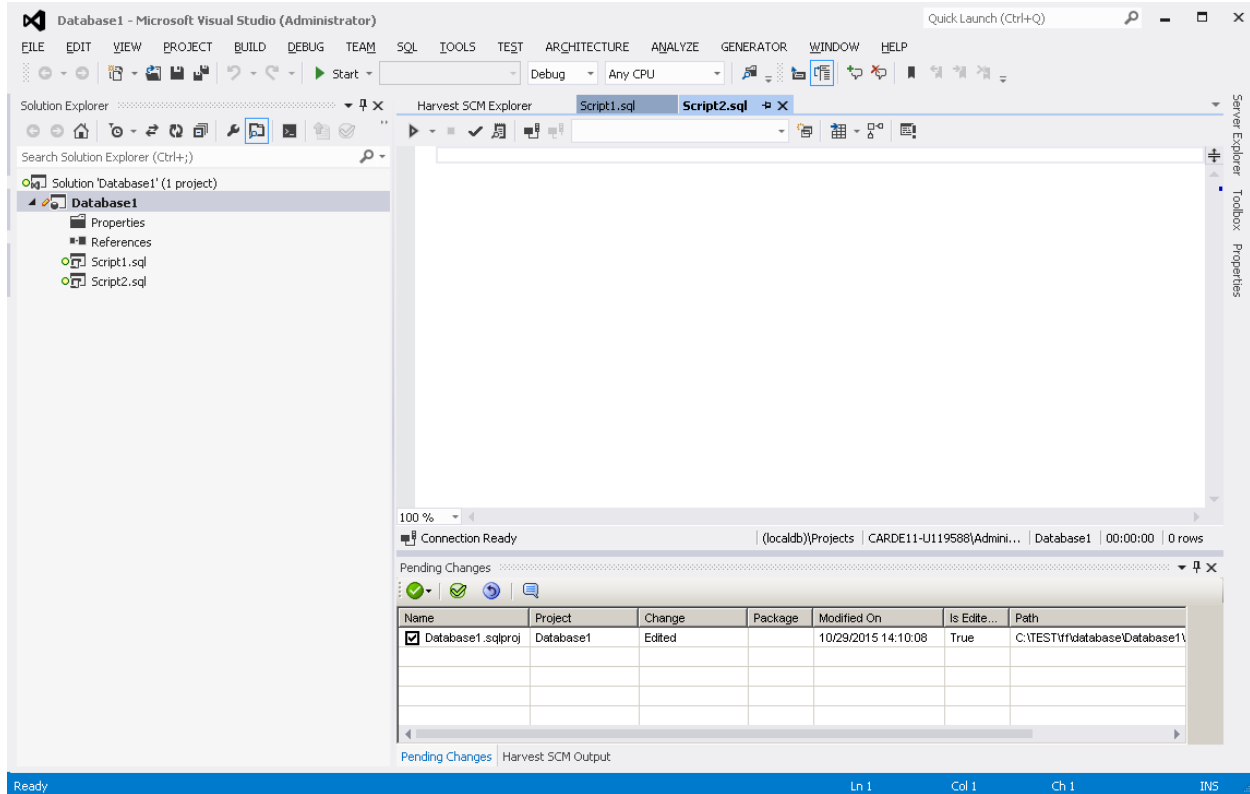

Recovery Steps

Step1: This demonstrates how to recover from this out-of-sync condition: To recover from this problem requires the user to exclude the "Script4.sql" file from the project by right clicking on the file and selecting "Exclude From Project" process. This process will then display a Harvest message informing that local changes will be lost, click OK:
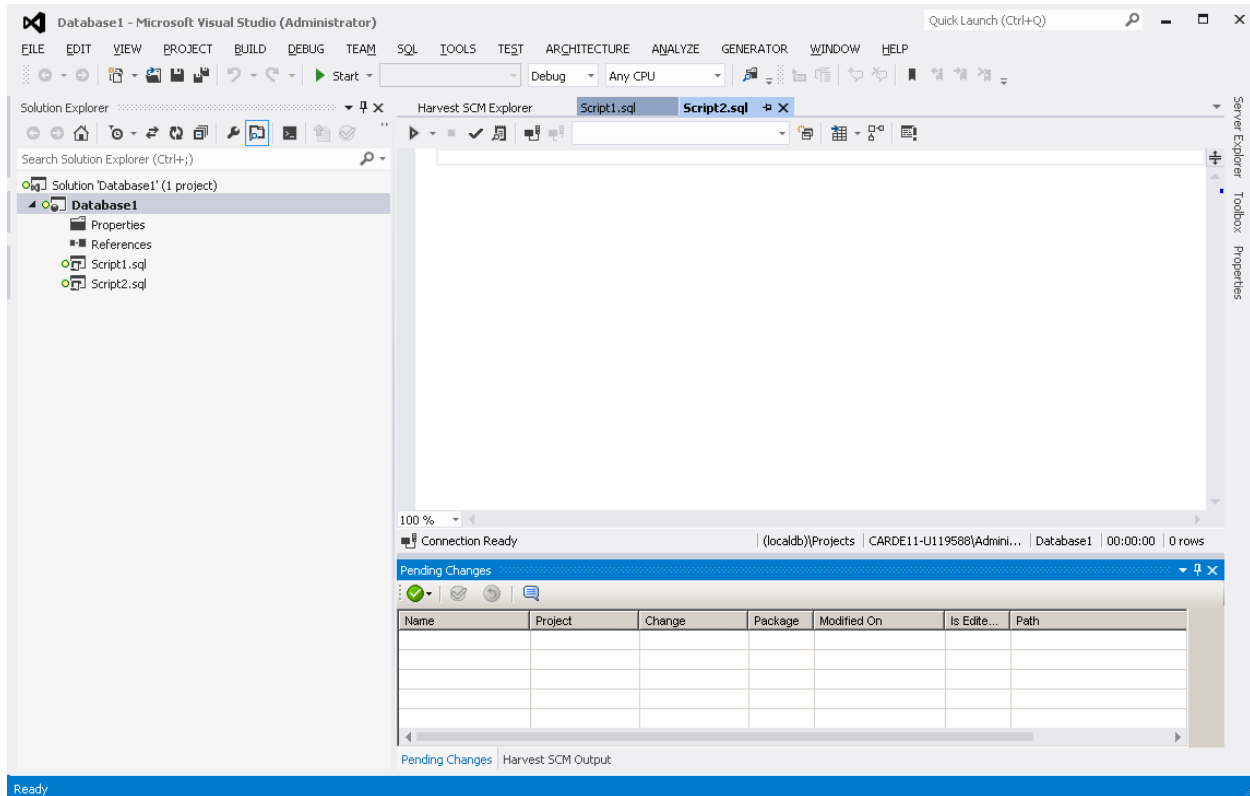
Step2: Close Visual Studio. Convert the "Script4.sql" to ANSI text by opening the file in notepad and then select "Save As…" then select ANSI as the format and click save, then close notepad:

Step3: Reopen Visual Studio and reload the solution, log into Harvest, the reload process will clean up the "Pending Changes" and will remove the Script4.sql file from the list. The project will display as Edited, commit the change of the project to the repository in order to resync with the Harvest repository:

After the project has been committed, the solution and project will be restored as in sync with the Harvest repository:

At this point you have recovered the project to be in sync with the Harvest repository. The next actions to add the new files to the project is to first use notepad and load each new file that is Unicode format and save them as ANSI text to insure the files are not in Unicode format.

Then in Visual Studio, you should be able to add each new file to the Project and commit them one by one successfully.