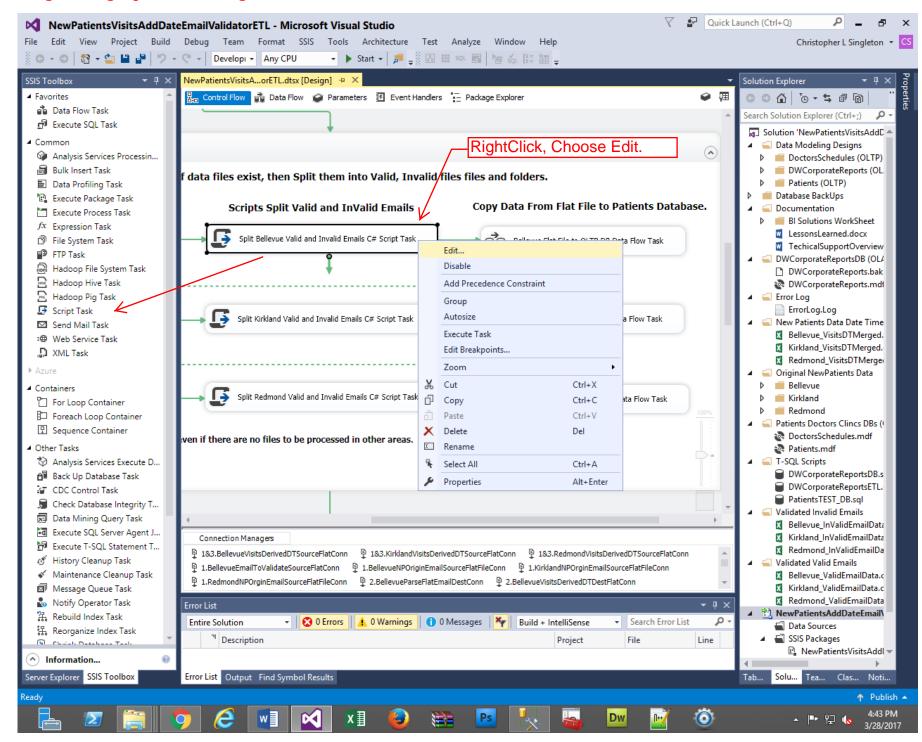
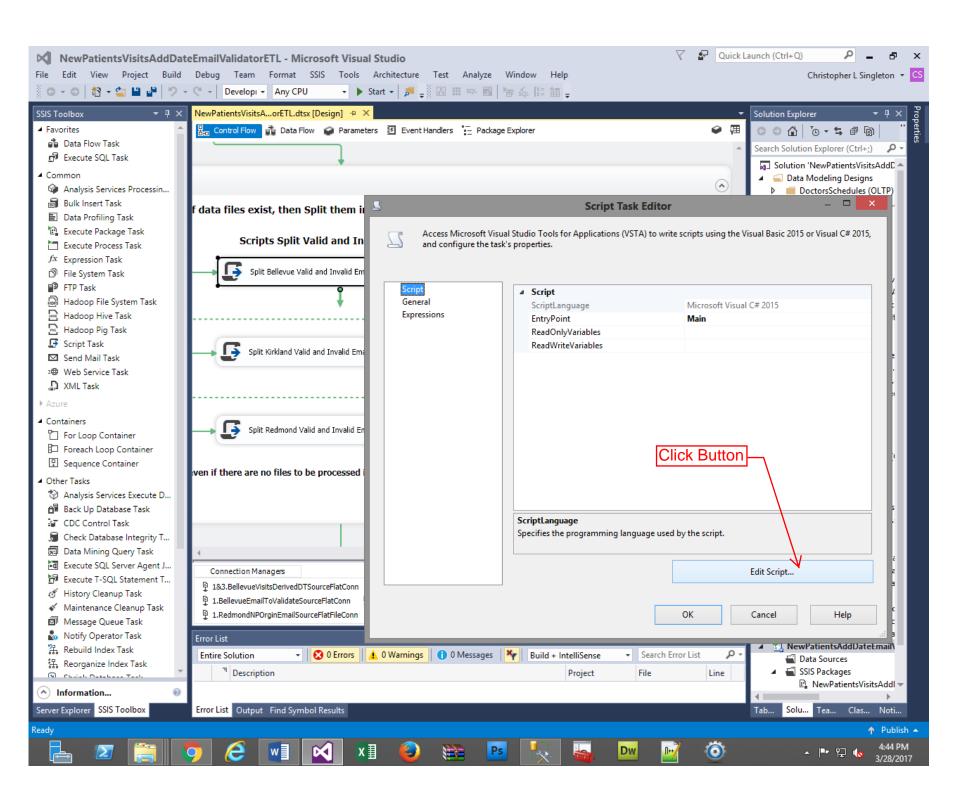
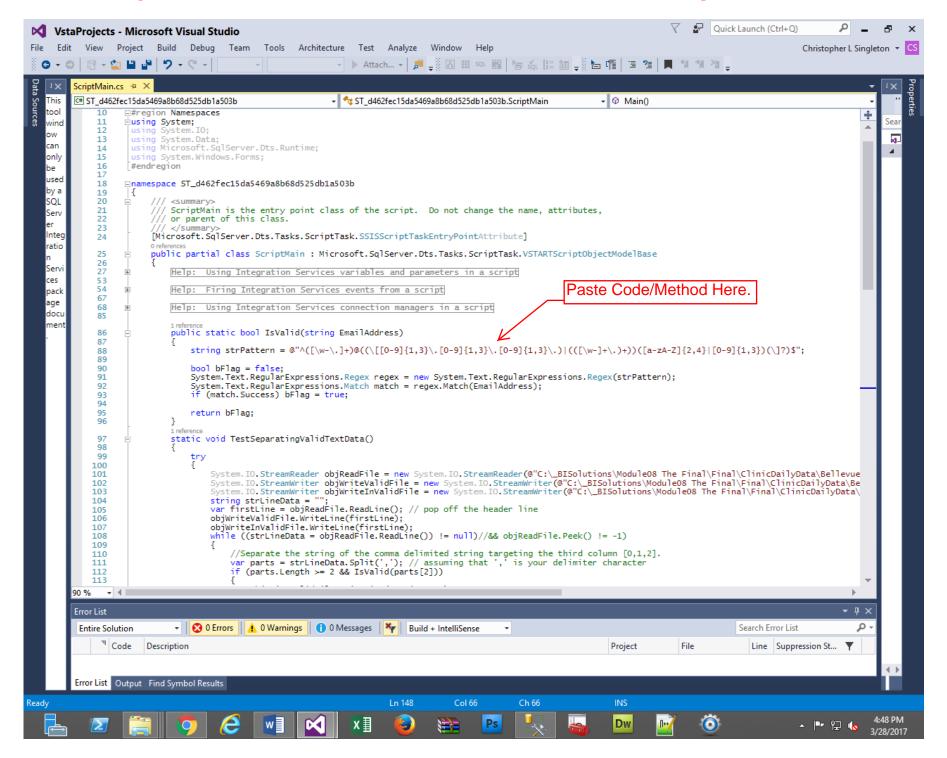
How to validate email addresses in SSIS using C# (Advanced ETL)

Programming By: Chris Singleton





Note: When you hit the edit button, a new instance of Visual Studio comes up with a C# window.



```
Splits Valid/InValid emails to other CSV files from
the original CSV Flat File.
                                                                 RegEx Pattern that validates the
public static bool IsValid(string EmailAddress)
                                                                given email address in the CSV
                                                                Flat File.
     string strPattern = @"+
  "^([\w-\.]+)@((\[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.)|(([\w-]+\.)+))([a-zA-Z]{2,4}|[0-9]{1,3})(\]?)
     bool bFlag = false;
     System.Text.RegularExpressions.Regex regex = new System.Text.RegularExpressions.Regex(strPattern);
     System.Text.RegularExpressions.Match match = regex.Match(EmailAddress);
     if (match.Success) bFlag = true;
     return bFlag;
 static void TestSeparatingValidTextData()
                                               Instantiated Object
                                                                                      Location of File to Read.
                                              that Reads the file.
     try
         System.IO.StreamReader objReadFile = new System.IO.StreamReader(@"+
                               "C:\ BISolutions\Module08 The Final\Final\ClinicDailyData\Bellevue\"+
                               "Bellevue_EmailsToValidate\Bellevue_EmailToValidateData.csv");
         System.IO.StreamWriter objWriteValidFile = new System.IO.StreamWriter(@"+
                               "C:\ BISolutions\Module08 The Final\Final\ClinicDailyData\Bellevue\"+
                               "Bellevue ValidEmail\Bellevue ValidEmailData.csv", false);
         System.IO.StreamWriter objWriteInValidFile = new System.IO.StreamWriter(@"+
                                "C:\ BISolutions\Module08 The Final\Final\ClinicDailyData\Bellevue\"+
                               "Bellevue InValidEmail\Bellevue InValidEmailData.csv", false);
         string strLineData = "";
         var firstLine = objReadFile.ReadLine(); // pop off the header line.
         objWriteValidFile.WriteLine(firstLine);
         objWriteInValidFile.WriteLine(firstLine);
                                                                    Loop through each row of line data.
         while ((strLineData = objReadFile.ReadLine()) != null) ←
             //Separate the string of the comma delimited string targeting the third column [0,1,2].
             var parts = strLineData.Split(','); // assuming that ',' is your delimiter character
             string). Columns start at 0.
             {
                objWriteValidFile.WriteLine(strLineData);
                                                                   Write the whole row (line) of data to the
                                                                   file named "ValidEmail Data".
```

```
else
            {
                                                                      If false, then writes to
                objWriteInValidFile.WriteLine(strLineData);
                                                                      InValidEmailData file.
        objReadFile.Close();
                                           Close Methods, Close Read/Write objects.
        objWriteValidFile.Close();
        objWriteInValidFile.Close();
    catch (System.Exception objException)
    {
        System.Console.WriteLine(objException.ToString());
        throw objException; //Must add this for the Main method to catch this exception.
/// <summary>
/// This method is called when this script task executes in the control flow.
/// Before returning from this method, set the value of Dts.TaskResult to indicate success or failure.
/// To open Help, press F1.
/// </summary>
public void Main()
    try
                                                    Call Method
        TestSeparatingValidTextData(); <</pre>
                                                                                  Message to show
        Dts.TaskResult = (int)ScriptResults.Success;
                                                                                  when an error
                                                                                  happens.
                                                    Handle Errors
    catch (Exception objException)
    {
        string strMessage = @"On Error, please check the file is in C:\ BISolutions\"+
                              "Module08 The Final\Final\ClinicDailyData\Bellevue\ Folder";
        Dts.Events.FireError(0, strMessage, objException.ToString(), string.Empty, 0);
        Dts.TaskResult = (int)ScriptResults.Failure;
}
```

```
#region ScriptResults declaration
/// <summary>
/// This enum provides a convenient shorthand within the scope of this class for setting the
/// result of the script.
///
/// This code was generated automatically.
/// </summary>
enum ScriptResults
{
    Success = Microsoft.SqlServer.Dts.Runtime.DTSExecResult.Success,
    Failure = Microsoft.SqlServer.Dts.Runtime.DTSExecResult.Failure
};
#endregion
```

```
Added the code again for re-usability.
public static bool IsValid(string EmailAddress)
{
    string strPattern = @"+
  "^([\w-\.]+)@((\[[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.)|(([\w-]+\.)+))([a-zA-Z]{2,4}|[0-9]{1,3})(\]?)$";
     bool bFlag = false;
     System.Text.RegularExpressions.Regex regex = new System.Text.RegularExpressions.Regex(strPattern);
    System.Text.RegularExpressions.Match match = regex.Match(EmailAddress);
    if (match.Success) bFlag = true;
     return bFlag;
static void TestSeparatingValidTextData()
     try
         System.IO.StreamReader objReadFile = new System.IO.StreamReader(@"+
                                "C:\ BISolutions\Module08 The Final\Final\ClinicDailyData\Bellevue\"+
                                "Bellevue EmailsToValidate\Bellevue EmailToValidateData.csv");
         System.IO.StreamWriter objWriteValidFile = new System.IO.StreamWriter(@"+
                                "C:\ BISolutions\Module08 The Final\Final\ClinicDailyData\Bellevue\"+
                                "Bellevue ValidEmail\Bellevue ValidEmailData.csv", false);
         System.IO.StreamWriter objWriteInValidFile = new System.IO.StreamWriter(@"+
                                "C:\ BISolutions\Module08 The Final\Final\ClinicDailyData\Bellevue\"+
                                "Bellevue InValidEmail\Bellevue InValidEmailData.csv", false);
         string strLineData = "";
         var firstLine = objReadFile.ReadLine(); // pop off the header line.
         objWriteValidFile.WriteLine(firstLine);
         objWriteInValidFile.WriteLine(firstLine);
         while ((strLineData = objReadFile.ReadLine()) != null)
```

//Separate the string of the comma delimited string targeting the third column [0,1,2].
var parts = strLineData.Split(','); // assuming that ',' is your delimiter character

if (parts.Length >= 2 && IsValid(parts[2]))

objWriteValidFile.WriteLine(strLineData);

{

}

```
else
            {
                objWriteInValidFile.WriteLine(strLineData);
        objReadFile.Close();
        objWriteValidFile.Close();
        objWriteInValidFile.Close();
    catch (System.Exception objException)
        System.Console.WriteLine(objException.ToString());
        throw objException; //Must add this for the Main method to catch this exception.
/// <summary>
/// This method is called when this script task executes in the control flow.
/// Before returning from this method, set the value of Dts.TaskResult to indicate success or failure.
/// To open Help, press F1.
/// </summary>
public void Main()
    try
    {
        TestSeparatingValidTextData();
        Dts.TaskResult = (int)ScriptResults.Success;
    catch (Exception objException)
        string strMessage = @"On Error, please check the file is in C:\ BISolutions\"+
                             "Module08 The Final\Final\ClinicDailyData\Bellevue\ Folder";
        Dts.Events.FireError(0, strMessage, objException.ToString(), string.Empty, 0);
        Dts.TaskResult = (int)ScriptResults.Failure;
}
```

```
#region ScriptResults declaration
/// <summary>
/// This enum provides a convenient shorthand within the scope of this class for setting the
/// result of the script.
///
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/// </summary>
enum ScriptResults
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    Success = Microsoft.SqlServer.Dts.Runtime.DTSExecResult.Success,
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};
#endregion
```