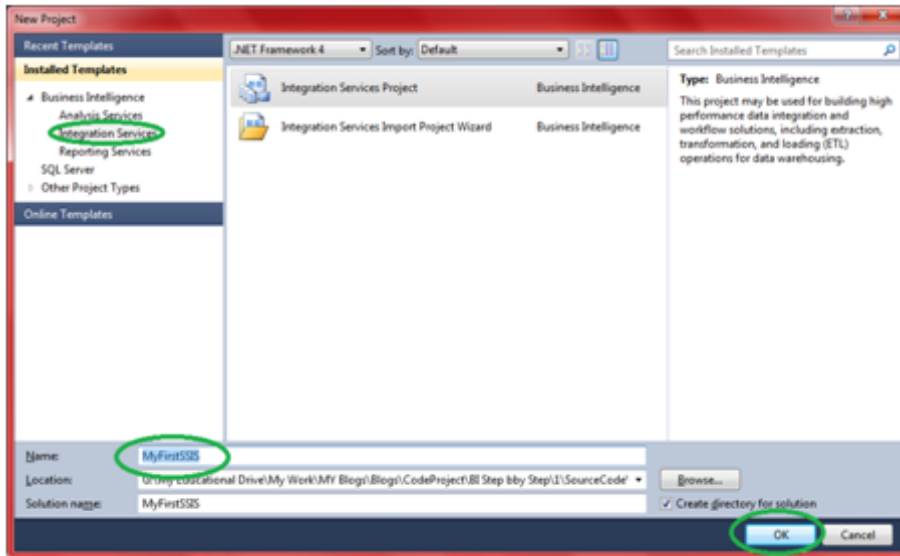


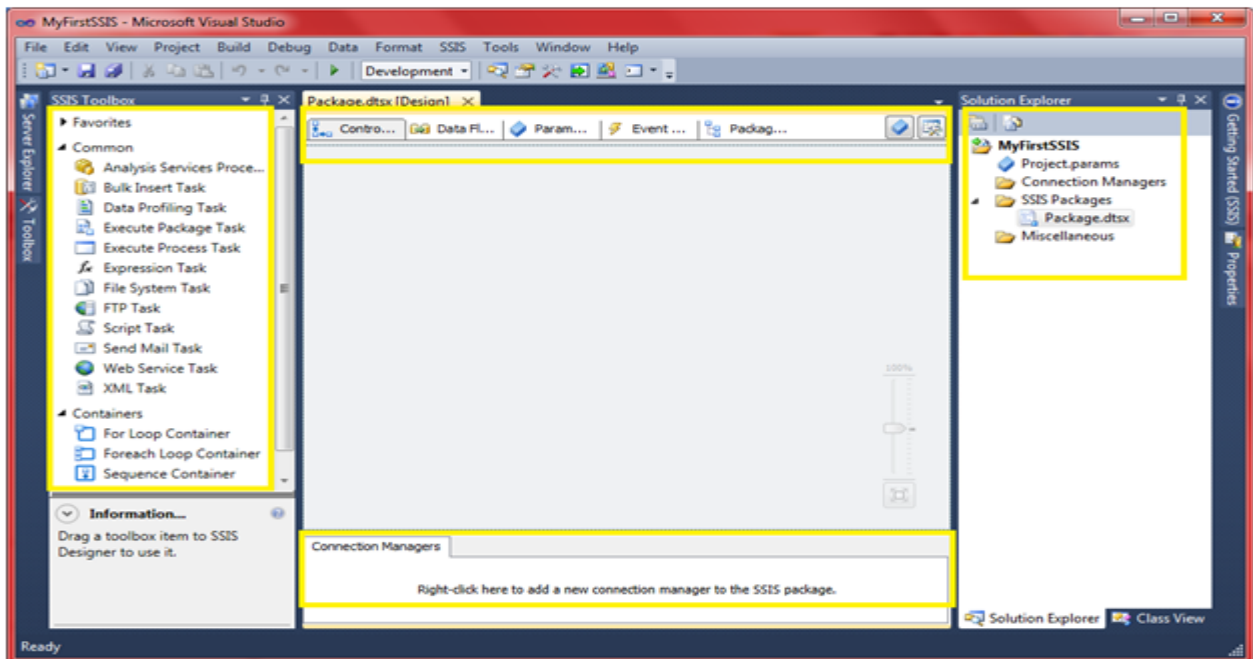
SSIS- Excel to Excel Data Conversation

Step 1. Create New Project

Click File >> New >> Project. Select Integration Services from the group. Specify some nice name. Say Ok.



It will open up SSIS designer which you will use for creating and maintaining Integration service packages. It looks like follows,



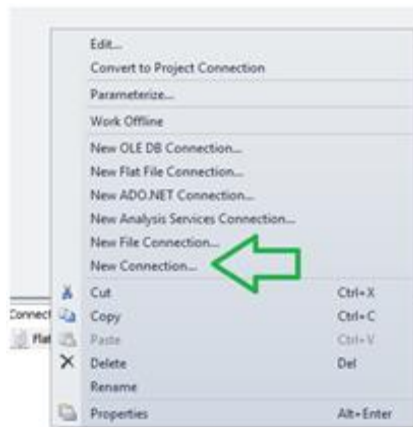
SSIS- Excel to Excel Data Conversation

In the solution explorer under "SSIS packages" folder you will see one default package created with name "Package.dtsx". If you want you can simply "rename it" or "remove it and add new one" (right click the folder and say "New SSIS Package").

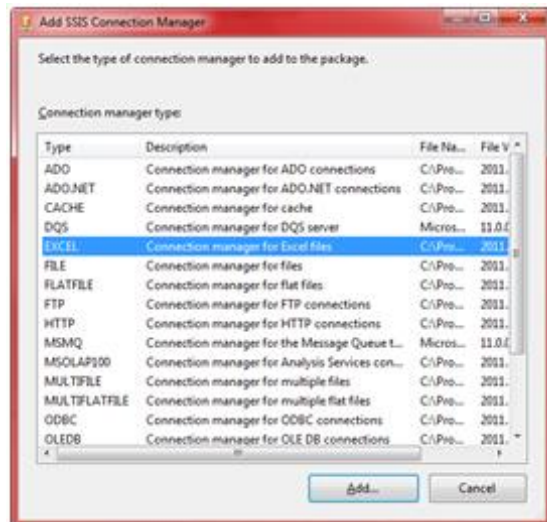
Note: Package is simply a collection of connections, control flow elements, data flow elements, event handlers, parameters etc. We will talk about each one of this as move further.

Step 2. Create Connection Manager for Excel File

2.1 Right click Connection Manager and Say New Connection.

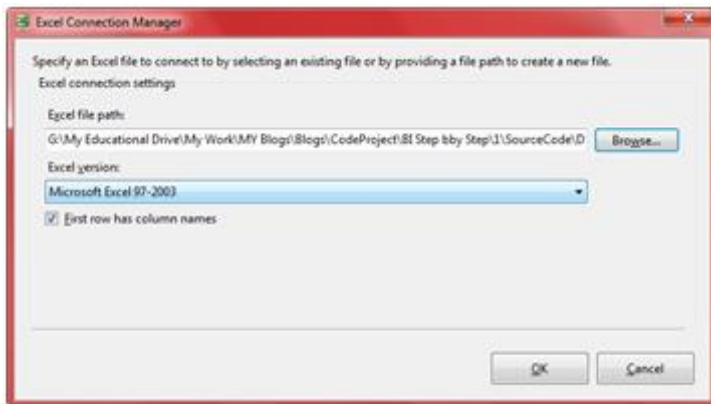


2.2 Select Excel from the popup and click on Add.



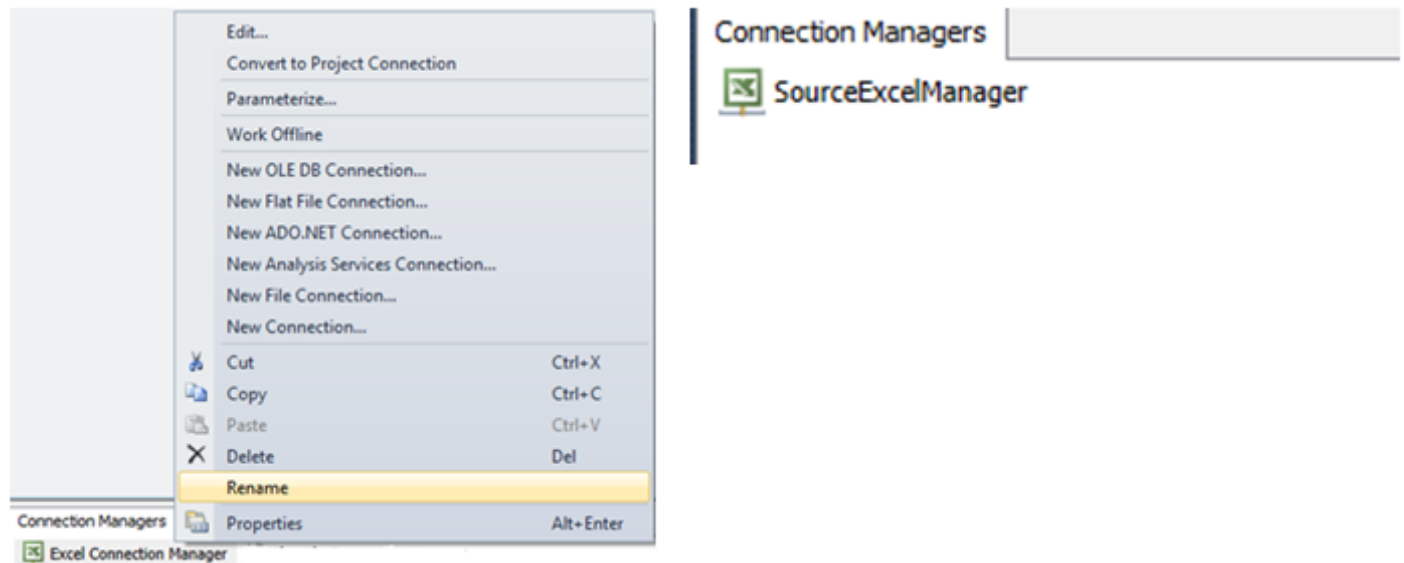
SSIS- Excel to Excel Data Conversation

2.3 Click the browse button and select the excel file and click on OK.



Step 3. Rename Connection Managers

3.1 Right click the connection manager just added and rename it to SourceExcelManager.



Step 4. Create Destination connection manager

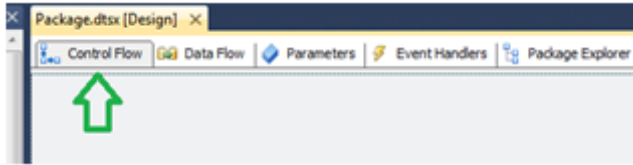
4.1 Follow the Step no 3 and create one more connection manager pointing to Result.xlsx file.

4.2 Rename connection manager to ExcelDestinationManager.

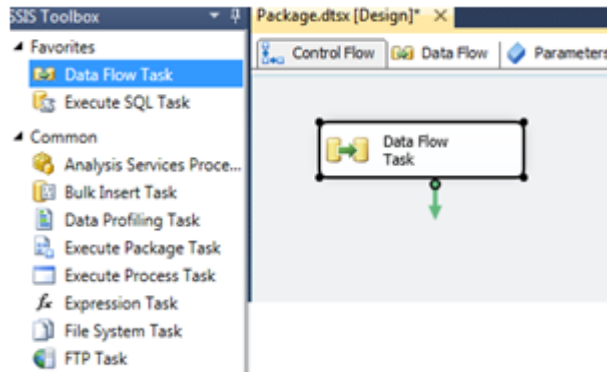
Step 5. Create control flow – Pass data from Source Excel to Destination Excel.

5.1 Make sure control flow tab is selected in SSIS designer.

SSIS- Excel to Excel Data Conversation



5.2 Select data flow task from the toolbox and drag it into designer.



5.3 Rename Data Flow Task to "Source excel to Destination excel transfer task"

Control Flow

Control flow will be used to define the workflow. As the name implies it control the flow of execution.

- What all tasks need to be executed?
 - What will be the sequence?
 - Whether tasks need to be executed in loops or not?
- Etc.

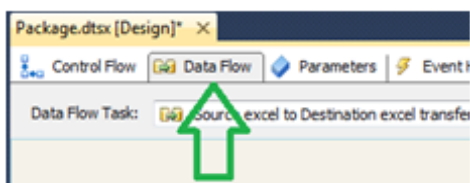
Step 6. Create Data Flow.

Data Flow

Data Flow defines the flow of data between source and destination.

6.1 Double click the control flow created in last step.

6.2 It will take you to second tab that is Data Flow tab.

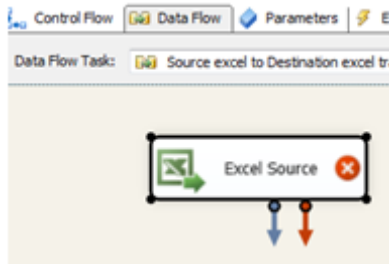


SSIS- Excel to Excel Data Conversation

Step 7. Create Excel Source

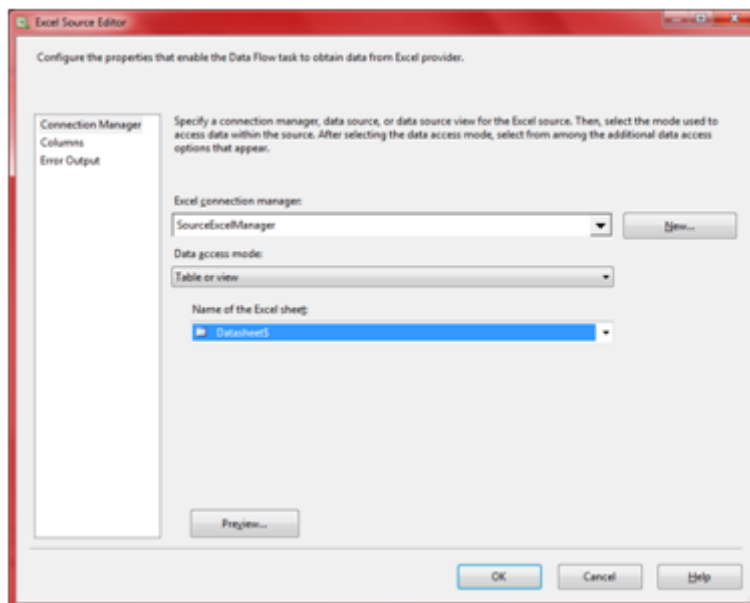
7.1 Now you will see a different SSIS toolbox all together. In toolbox you will see couple of groups defined like Sources, Destinations and Transformations.

Take excel source from Source group and place it in designer.



Step 8. Configure Excel Source

8.1 Red Cross mark on excel source indicates that, it's not configured yet. Double click the excel source. It will show up a dialog box something like this.



8.2 Select Data Source as "SourceExcelManager", Data Access Mode as "Table or View" and Name of the sheet as "DataSheet1" (Name of the sheet in the excel file).

Note: This Excel Source will perform the Extraction Task (E) in the ETL process

Step 9. Create Derived Column

9.1 From the SSIS toolbox from Transformation group drag Derived column to SSIS designer.

SSIS- Excel to Excel Data Conversation

Step 10. Connect Source to Derived Column

10.1 Click the Excel source added in prior step.

You can see a small blue arrow attached to the source. We call it "Data Flow Path".



Data Flow Path: It lets you define how data will flow.

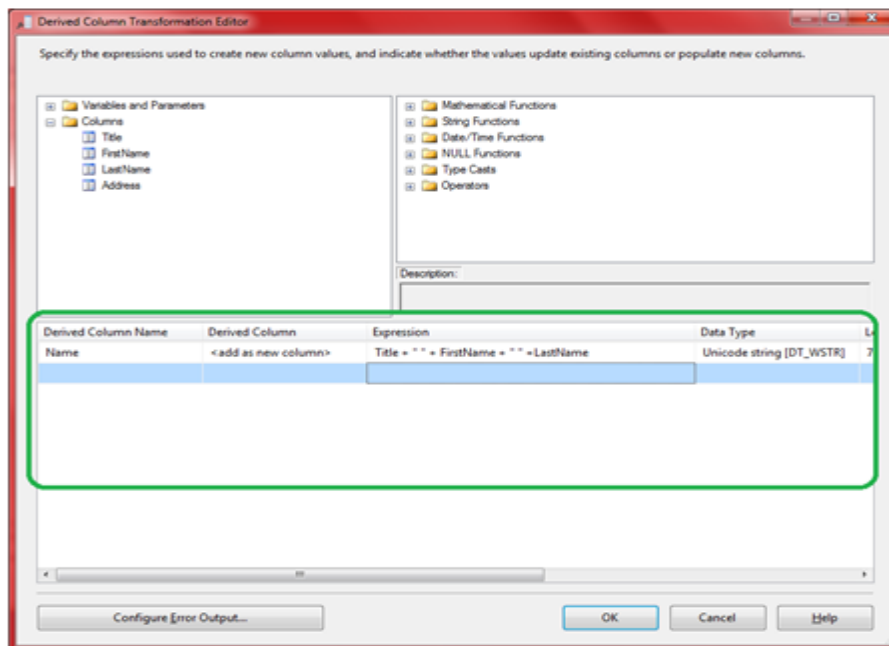
Click on the blue arrow and connect it to Derived Column.



Note: we will speak about the red arrow in one of the future article in the series.

Step 11. Configure the derived column

11.1 Double click the derived column. Popup looks like follows.



SSIS- Excel to Excel Data Conversation

11.2 Put down Derived Column Name as **Name**, Select Derived Column as <add>and expression as **Title + " " + FirstName + " " + LastName**

11.3 Click Ok.

Note: This DerivedColumn will perform the Transformation Task (T) in the ETL process

Step 12. Create Excel Destination

12.1 Add Excel Destination from the Destination group in SSIS toolbox.

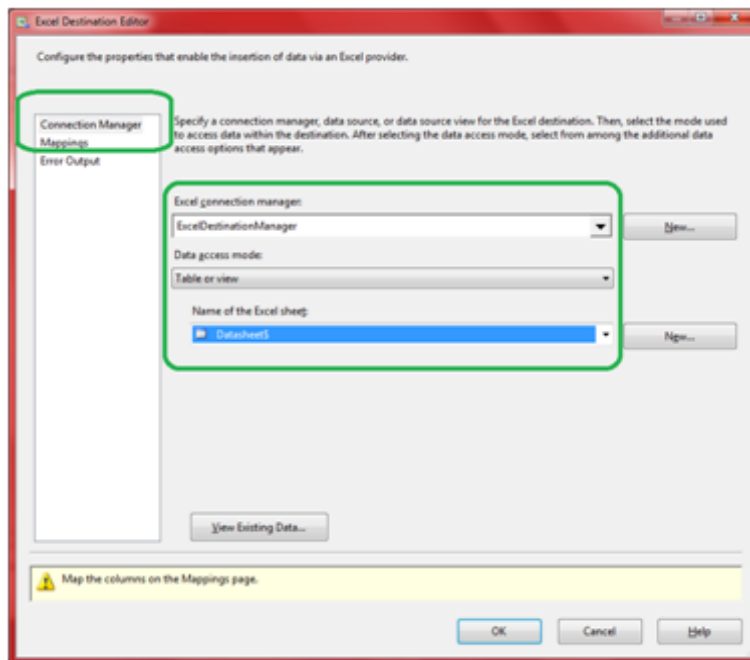
Note: This Excel Destination will perform the Load Task (L) in the ETL process

Step 13. Connect Derived Column to Excel Destination

13.1 Just like step no 10, connect derived column to excel destination.

Step 14. Configure Excel Destination

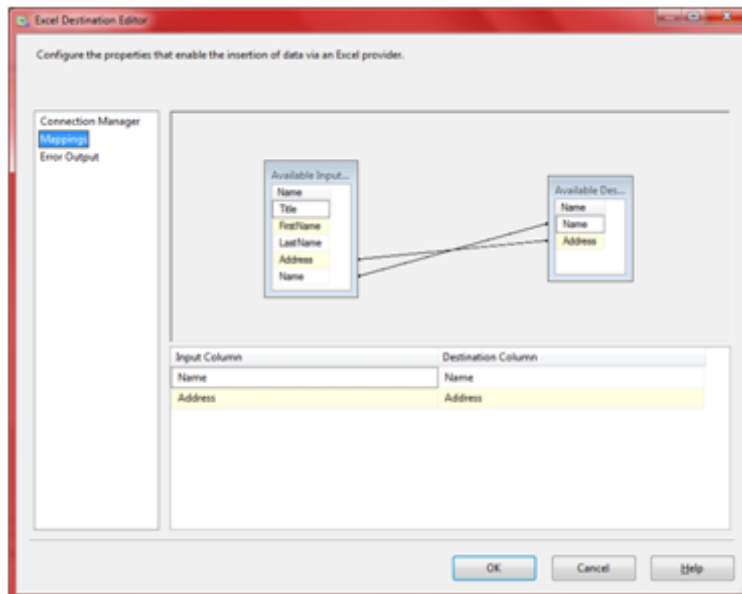
14.1 Double click the Excel destination, popup looks like follow.



14.2 Set connection Manager to "ExcelConnectionManager", Data Access mode to "Table or View" and Name of the excel sheet to "Datasheet1".

SSIS- Excel to Excel Data Conversation

14.3 Click on mapping and make sure its proper, if not make sure to do it before proceeding.



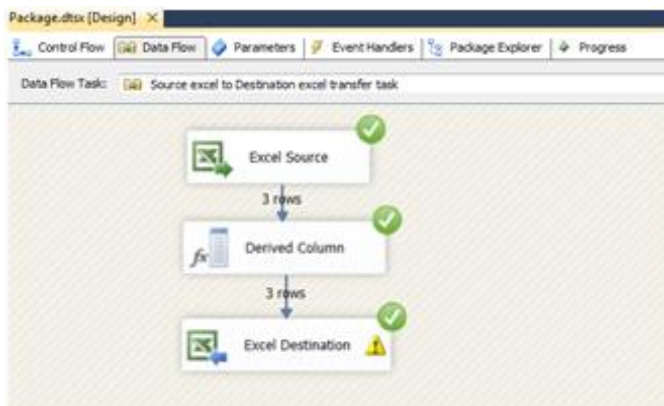
Note: In our case, mapping will be already done by the IDE itself (because names of columns are matching).

14.4 Click ok.

Step 15. Execute package

15.1 Press F5.

On successful execution you will get a screen something like this.



SSIS- Excel to Excel Data Conversation

16.2 Open the Result.xlsx file and confirm the output.

	A	B	C
1	Name	Address	
2	Mr. Kenen Joshep	USA	
3	Mrs. Kamala Kumar	Chennai	
4	Mrs. Sheetal Raju	Chennai	
5			