

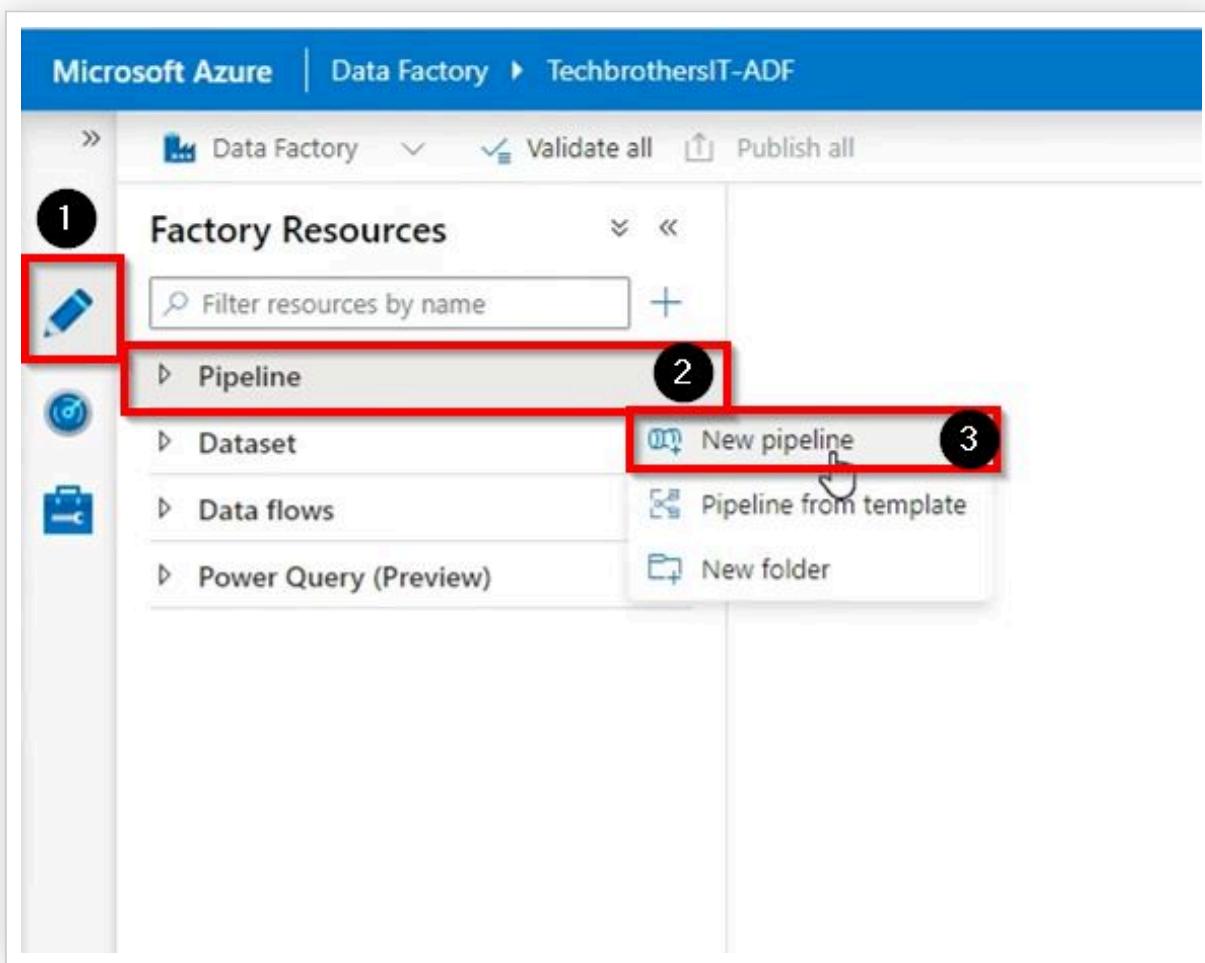
How to Load Data from Multiple XL Sheets to Azure SQL Tables in Azure Data Factory

Issue: How to Load Data from Multiple XL Sheets to Azure SQL Tables in Azure Data Factory.

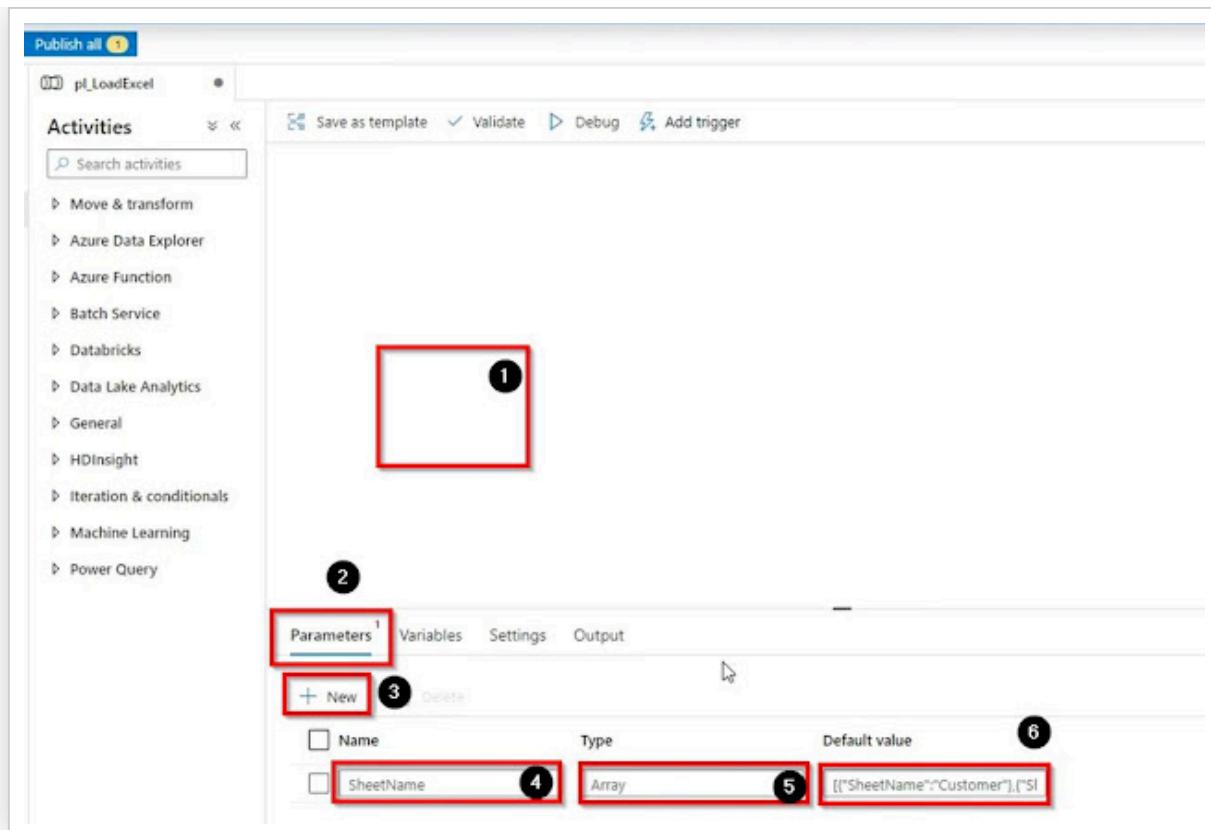
In this article, we are going to learn how to load data from multiple, EXCEL sheets to Azure SQL Tables in the Azure Data Factory, let's start the demonstration.

How to Create a pipeline:

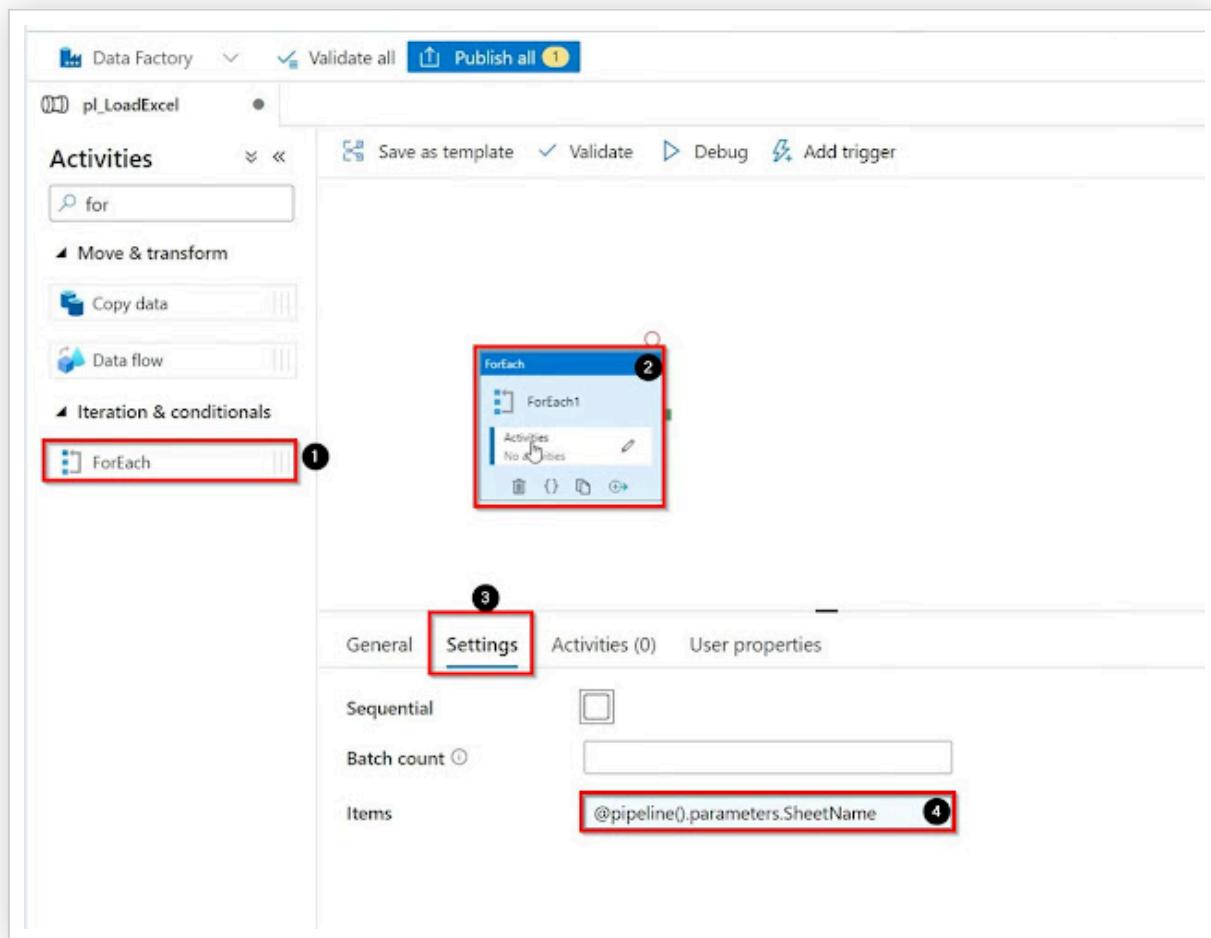
Open the Azure Data Factory Studio, Go to the author tab, click on pipelines, then click on New pipeline.



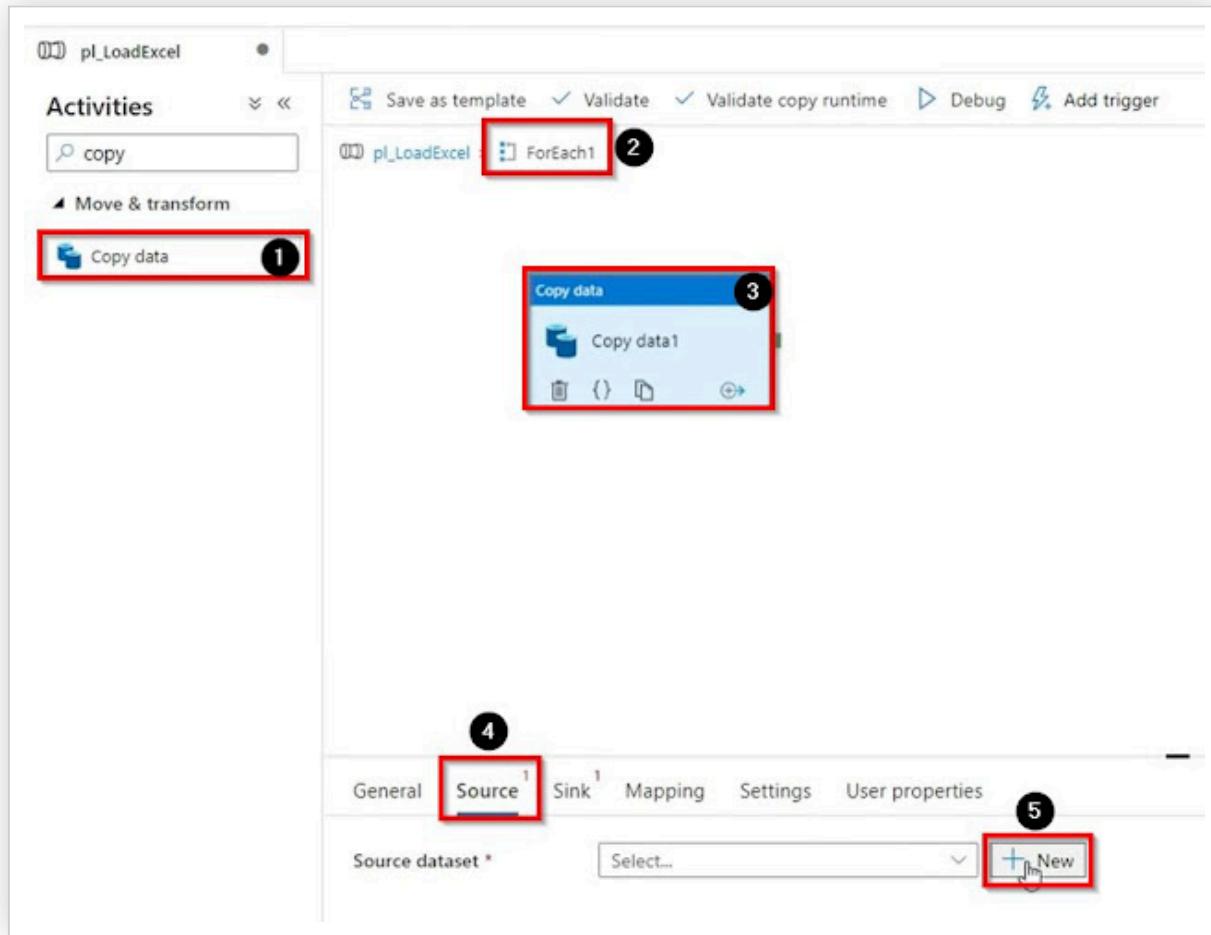
Click on the white working window, then go to the parameters tab, click on the + New button, provide the name, type, and default value.



Find and drag the ForEach loop activity, go to the settings tab, click on items and add the parameter we created earlier.



Next, go inside the ForEach loop Activity, find and drag the copy data activity, go to the source tab, click on the + New button to create a new source dataset.



Select Azure blob storage then click on continue.

New dataset

In pipeline activities and data flows, reference a dataset to specify the location and structure of your data within a data store. [Learn more](#)

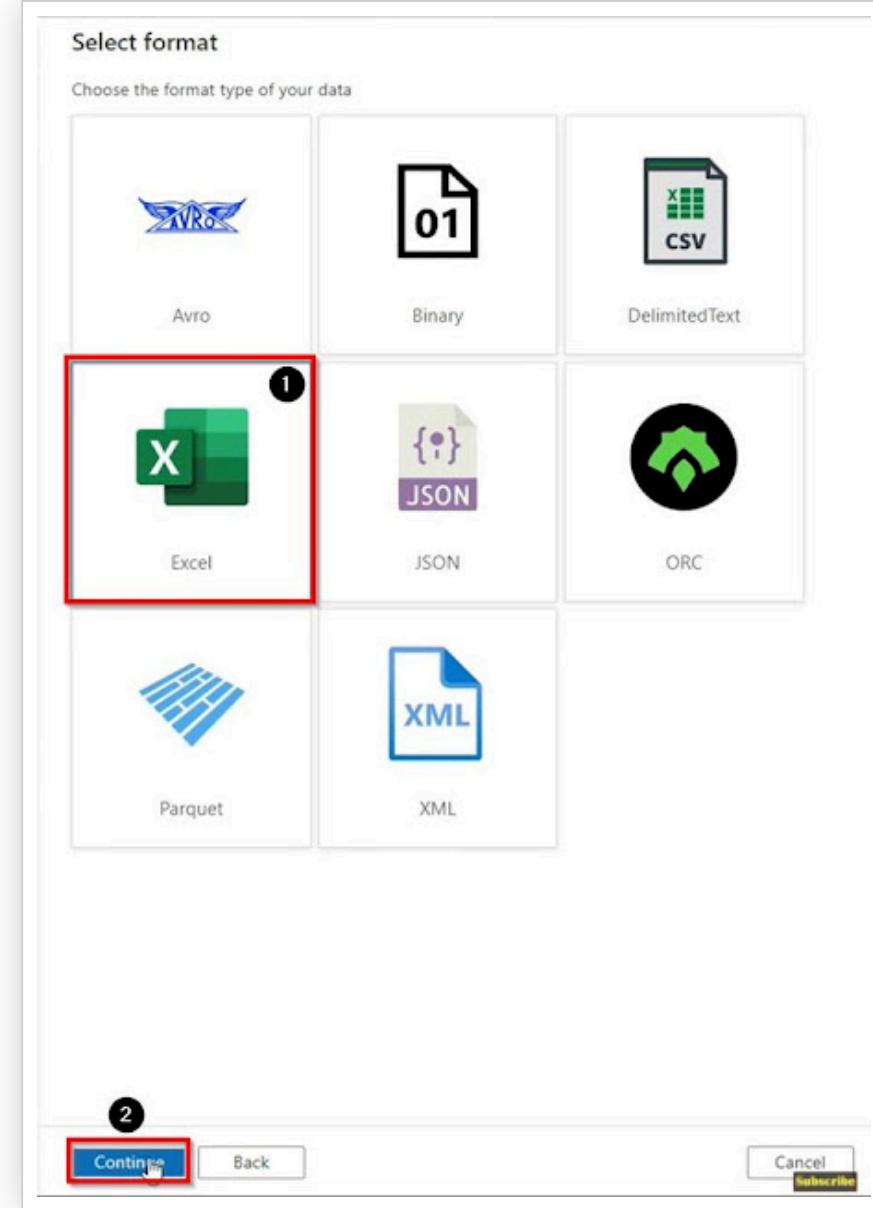
Select a data store

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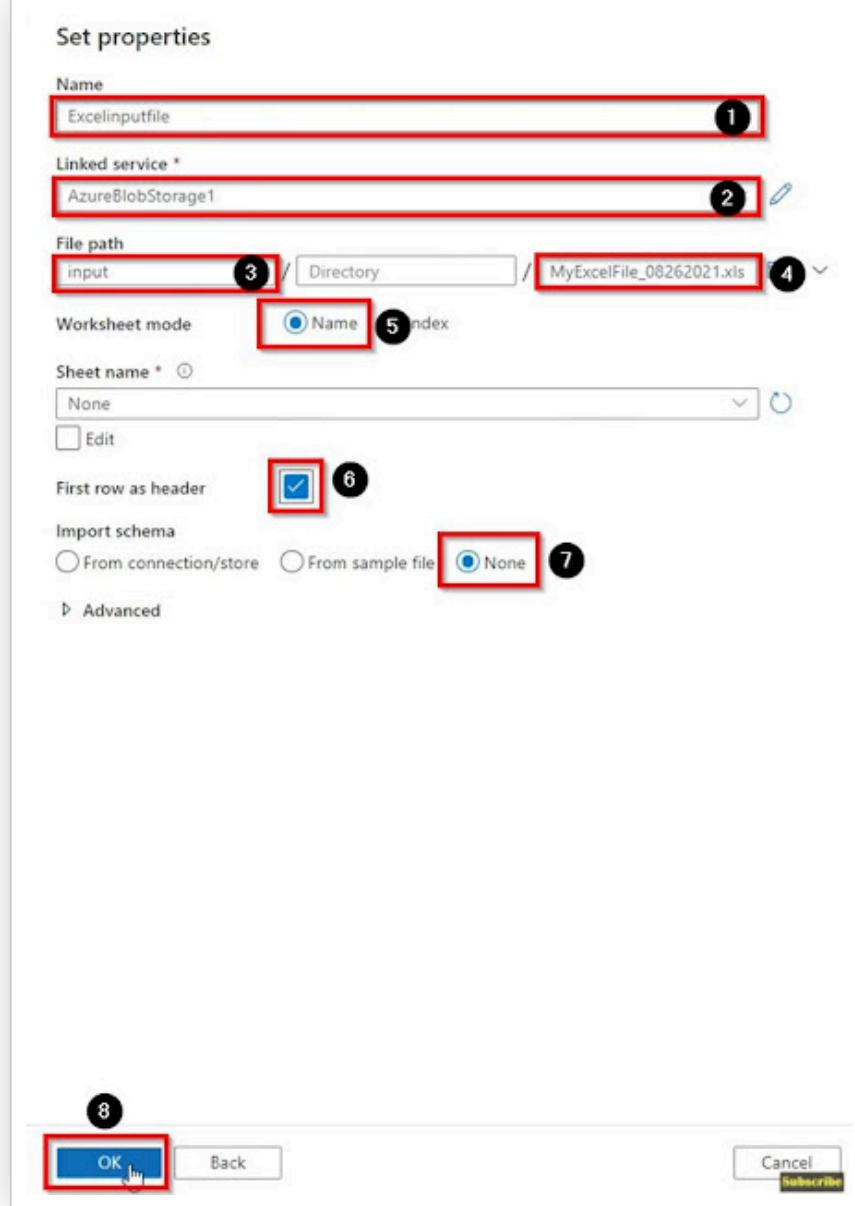
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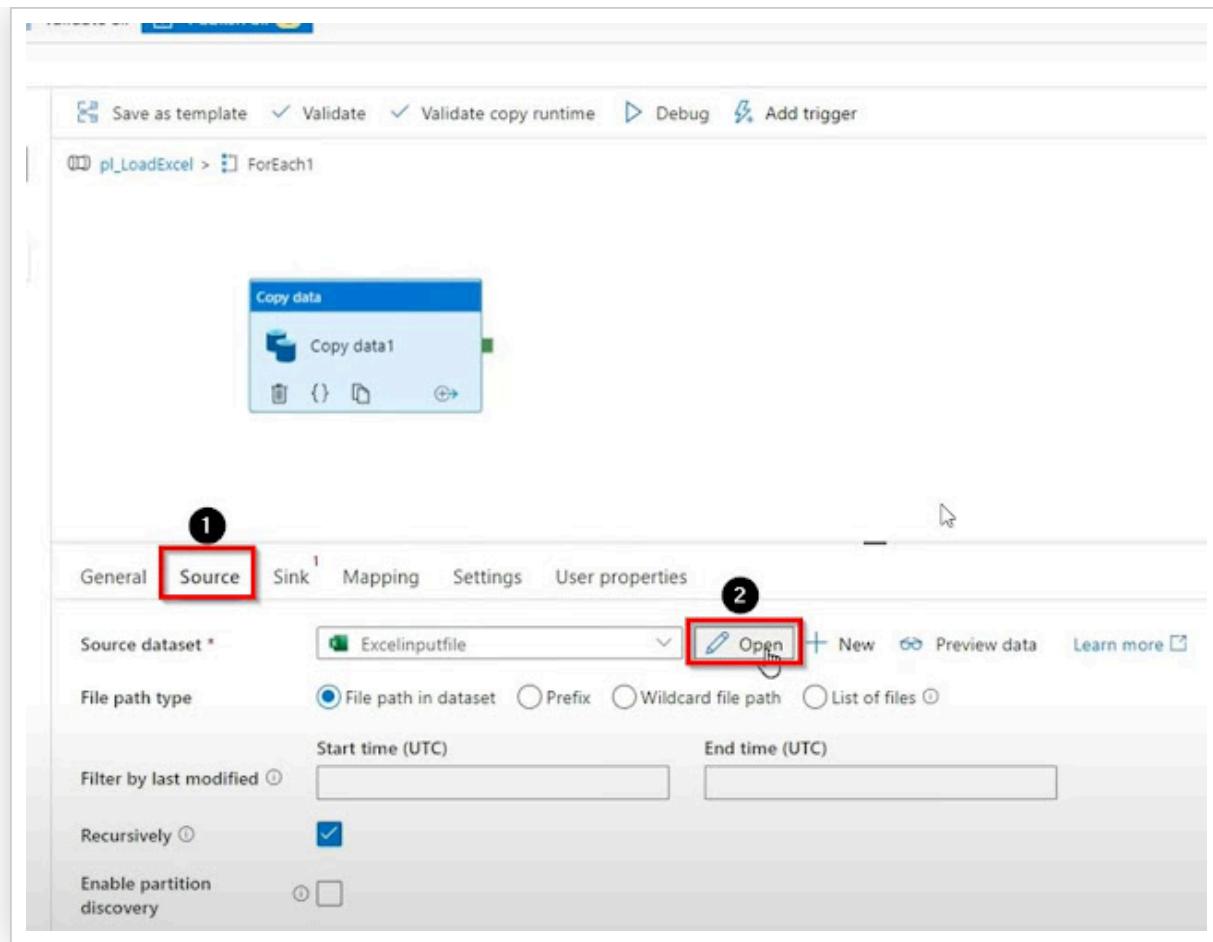
Select format as Excel then click on continue.



Name your dataset, select the linked service, select the file path, select the file, Worksheet mode will be Name, select none for import schema, then click on ok.



In the source tab click on the Open button, go inside and create a parameter.



In the parameters tab, click on the + New button, then, name the parameter, select the type, give the default values, then go to the connection tab.

The screenshot shows the Azure Data Factory authoring interface. At the top, there are navigation icons (back, forward, search), a URL bar (adf.azure.com/en-us/authoring/dataset/Excelinputfile), and a toolbar with 'Data Factory' dropdown, 'Validate all' (with a checkmark), 'Publish all' (with a yellow circle containing '2'), and other buttons.

The main area shows a pipeline named 'pl_LoadExcel' and a dataset named 'Excelinputfile'. Below the pipeline name is a green icon with a white 'X' and the text 'Excel' and 'Excelinputfile'.

A modal window is open for the 'Excelinputfile' dataset. It has tabs for 'Connection', 'Schema', and 'Parameters'. The 'Parameters' tab is selected and highlighted with a red box and a circled '1'. Below it is a sub-tab 'New' also highlighted with a red box and circled '2'.

The 'Parameters' table has columns: 'Name' (checkbox), 'Type' (dropdown), and 'Default value' (text input). A row for 'dSheetName' is selected and highlighted with a red box, circled '3'. The 'Type' column for this row is set to 'String' (circled '4'). The 'Default value' column contains the placeholder 'Value' (circled '5').

In the connection tab, use the parameter which we just created.

The screenshot shows the 'Excel' dataset configuration page. At the top left is the Excel icon. The dataset name is 'Excelinputfile'. Below the title bar are three tabs: 'Connection' (highlighted with a red box and circled '1'), 'Schema', and 'Parameters'. The 'Connection' tab displays the following settings:

- Linked service: AzureBlobStorage1
- File path: input / Directory / MyExcelFile_08262021
- Compression type: None
- Worksheet mode: Name (radio button selected)
- Sheet name: @dataset().dSheetName (highlighted with a red box and circled '2')
- Range: e.g. A3:H5
- Null value: (empty field)

At the bottom right of the sheet name field is a 'Preview data' link.

Back to the source tab, provide the values from our ForEach loop Activity.

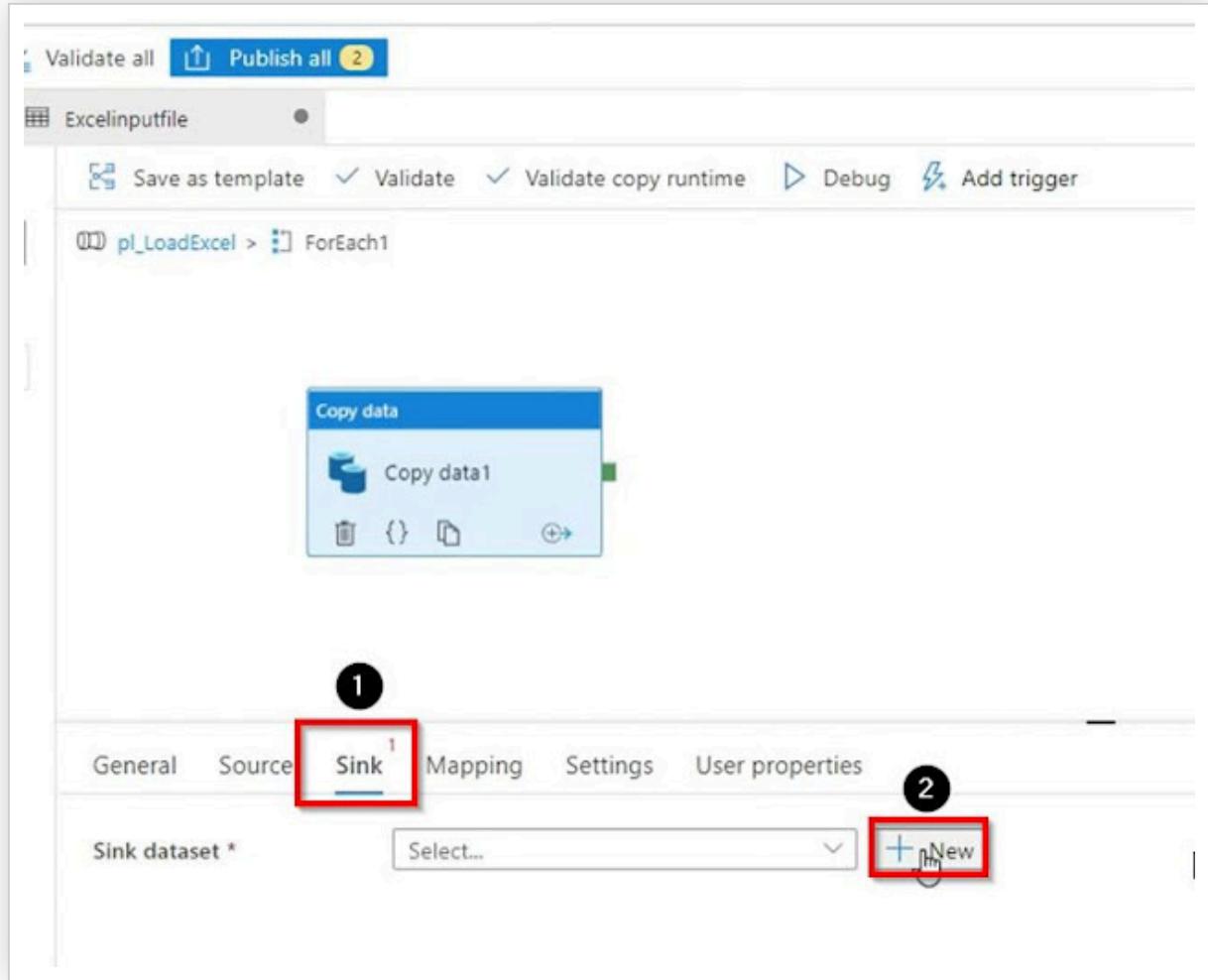
The screenshot shows the 'Copy data' activity configuration page. At the top left is the activity icon. The activity name is 'Copy data1'. Below the title bar are several buttons: 'Save as template', 'Validate', 'Validate copy runtime', 'Debug', 'Add trigger', and the current step 'pl_LoadExcel > ForEach1'. The 'Source' tab is selected (highlighted with a red box and circled '1'). The 'Source' tab displays the following settings:

- Source dataset: Excelinputfile
- Dataset properties:

Name	Value	Type
dSheetName	@item().SheetName	string

 (highlighted with a red box and circled '2')
- File path type: File path in dataset (radio button selected)
- Filter by last modified: (empty fields for Start time and End time)

Once we are done with our source tab, go to the sink tab, click on the + New button to create a new Sink dataset.



Select Azure SQL database, then click on continue.

New dataset

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Select a data store

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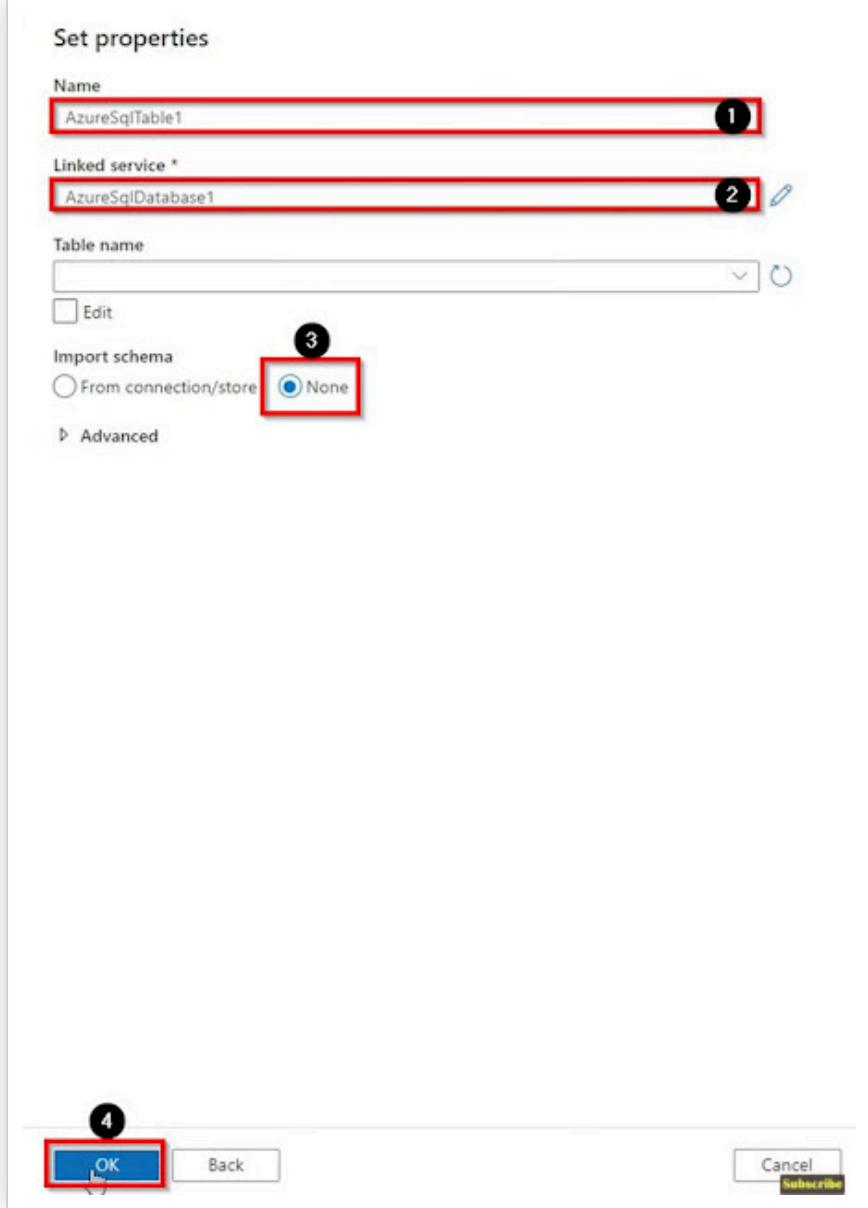


Continue

Cancel

Subscribe

Name your dataset, select the linked service, select none for import schema, then click on ok.



In the sink tab, click on the Open, go to the Parameters tab, click on the + New button and create a parameter.

The screenshot shows the Azure Data Factory studio interface. At the top, there are three pipeline components: 'pl_LoadExcel', 'Excelinputfile', and 'AzureSqlTable1'. Below them is a connection icon for 'Azure SQL Database' and the name 'AzureSqlTable1'. The main area has tabs for 'Connection', 'Schema', and 'Parameters'. The 'Parameters' tab is selected and highlighted with a red box. Numbered callouts point to specific elements: 1 points to the 'Parameters' tab; 2 points to the '+ New' button; 3 points to the 'Name' column; 4 points to the 'Type' column; and 5 points to the 'Value' column. A row for the parameter 'dsTableName' is selected and highlighted with a red box. It shows 'dsTableName' in the Name column, 'String' in the Type column, and an empty Value column.

Go to the connection tab and use the parameter that we just created.

The screenshot shows the Azure Data Factory studio interface with the 'Connection' tab selected. Numbered callouts point to specific elements: 1 points to the 'Connection' tab; 2 points to the 'Linked service' dropdown; 3 points to the 'Table' dropdown; and 4 points to the 'Value' field. In the 'Linked service' dropdown, 'AzureSqlDatabase1' is selected. In the 'Table' dropdown, 'dbo' is selected. The 'Value' field contains the expression '@dataset().dsTableName', which is highlighted with a red box. There is also a checked 'Edit' checkbox next to the value field.

Now map this parameter with our ForEach loop, then click on Debug.