

Dataflow Gen2 in Microsoft Fabric





- Step 1: Connect to the Data Source
- Open Microsoft Fabric and go to Dataflows.
- 2. Click New Dataflow → Add a Table.
- Choose Lakehouse as the data source.
- 4. Select the **Lakehouse ID** and find your file (e.g., `flight.csv` or 'flights.txt).
- 5. Click Create

★ Step 2: Remove blank rows (For txt format)

**Problem:** The data have blank rows.

**Solution:** 

In the ribbon, go to **Home** → **Reduce rows** → **Remove rows** → **Remove blank rows**.

Step 3: Process first row as header

Problem: first row as header

**Solution:** 

In ribbon Transform → Use first row as headers → Use first row as headers



Step 4: Add new column 'Date\_Parsed'

**Problem**: 'Date\_of\_Journey' have string type

#### **Solution:**

- In ribbon Add column → select
  Custom column.
- 2. In **New column name**, fill 'Data\_Parsed'
- 3. In Costum column formula, fill from 'Hands-on Day 2 Dataflow' in GitHub

- Step 5: Remove 'Date\_of\_Journey' and replace 'Date\_Parsed' with 'Date\_of\_Journey'
- Right-click the old `Date\_of\_Journey` column.
- 2. Click Remove columns.
- 3. Right-click the 'Date\_Parsed' column.
- 4. Click Rename.



- Step 6: Remove columns
- Block column like 'Route',
   'Dep\_Time', 'Arrival\_Time', 'Duration',
   'Total\_Stops', 'Additional\_Info'
- Right-click then select Remove columns

- ★ Step 7: Group 'Airline' and aggregate 'Price'
- In ribbon Transform → select Group by.
- 2. Select Basic.
- 3. In Group by, select 'Airline' column.
- 4. In **New column name**, fill 'Sum\_Price'.
- 5. In Operation, select 'Sum',
- 6. In Column, select 'Price'
- 7. Click '**OK**'



- Step 8: Save the result to lakehouse
- In Right Side Bar, Click '+' on Data Destination → select Lakehouse.
- 2. Select **New table**.
- Click drop-down workspace 'fabricdata-kai' → select 'your lakehouse'
- 4. In **Table name**, fill the table name.
- 5. Click **Next**
- 6. Click **Save settings**

- Step 9: Publish the dataflow
- In bottom right corner, select dropdown **Publish**
- 2. Select **Publish now**, if want to run now or
- 3. Select **Publish later**, if want to exit without run

Data Factory and Spark Notebook





- ★ Step 1: Create Pipeline and Add Copy Data
- 1. Open **Microsoft Fabric** and go to **Factory Pipeline**.
- In ribbon Home → Copy data → Add to canvas.
- 3. Click Copy data.
- 4. In General → Name → fill name

- Step 2: Fill Source in Copy Data
- In Connection → Select More
- 2. In New sources, select 'View more' →Azure Blobs
- 3. In Account name or URL, fill URL from Readme in GitHub
- 4. In Authentication, select 'Account key'
- 5. In Account key, fill key from Readme in GitHub → click **Next**
- 6. In **File path**, fill container with 'workshop-kai'
- Copyright Nawatech 207. In File format, select DelimitedText



- ★ Step 3: Fill Destination in Copy Data
- In Connection → Select 'your lakehouse'
- 2. In File format, select DelimitedText
- 3. Click Copy data.
- 4. In General → Name → fill name

- Step 4: Add Notebook
- 1. In ribbon Home, select Notebook.
- 2. Click on **Notebook** activities
- 3. In **General**, fill your notebook name in **Name** field
- 4. In **Settings**, select 'yout workspace' in **Workspace** field (e.g. 'fabric-data-kai')
- 5. In Notebook, select 'your notebook'



- ★ Step 5: Add new Paramater Pipeline for looping copy data
- 1. Click on blank space.
- 2. In bottom, Click Parameter.
- In Name field, fill 'your parameter name'
- 4. In **Type** field, select **Array**.
- 5. In **Value** field, fill with ["flights","bookings","passengers","payments","airports"]

- Step 6: Add ForEach activities
- In ribbon Activities, select ForEach.
- 2. Click on **ForEach** activities.
- 3. In **General**, fill your ForEach name in **Name** field
- 4. In **Settings**, click text bar in **Items** field → click **Add dynamic content**
- Click Parameter → select 'your parameter' → OK



- Step 7: Add Copy activities on ForEach activities
- 1. Double click on ForEach activities.
- In ribbon Home → Copy data → Add to canvas
- 3. Click on Copy activities.
- In General, fill 'your copy name' on Name field

- ★ Step 8: Fill source on Copy data in ForEach activities
- 1. Click Copy activities → click **Source**
- 2. In **Connection**, select 'your lakehouse'
- 3. In Root folder, select Tables
- In Table, click text bar → click Add dynamic content
- 5. Select **ForEach iterator** → select 'your ForEach name' → **OK**



- ★ Step 9: Fill destination on Copy data in ForEach activities
- Click Copy activities → click
  Destination
- 2. In Connection, select More
- In New Fabric item, selectWarehouse
- 4. In Name, fill 'your warehouse name'
- 5. Click **Create and connect**
- 6. In **Table option** → **Auto create table**
- In Table, click on 'table name' bar → click Add dynamic content
- 8. In ForEach iterator, click 'vour

- Step 10: Run the pipeline
- 1. In pipeline space, click **Main canvas**
- 2. In ribbon **Home**, click **Validate** to check the pipeline is work and can to run
- 3. After pipeline has been validated, in ribbon **Home** → click **Run**

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