

07/09/2023

Mapping Data Flow Transformation

Source Transformation

Sink Transformation

Surrogate Key Transformation

Union Transformation

Conditional Split Transformation

Derived Column Transformation

API based Integration

Role of API in Modern Software Development

API-based integration Architecture

API Consumption and Integration Techniques

Authentication (API Keys, Basic Authentication,Bearer Token, API Gateway Authentication, Client Certificates)

API Authorization (Role-Based Access Control (RBAC), Scope-Based Access (OAuth 2.0), Attribute-Based Access Control (ABAC), Policy-Based Access Control,Fine-Grained Access Control)

Change Data Capture

Significance of Change Data Capture (CDC) in Data Synchronization

Switch Activity

The screenshot shows the Microsoft Azure portal interface. At the top, there's a navigation bar with 'Microsoft Azure' and a search bar. Below the navigation bar, the current resource group is 'azurerg'. The left sidebar lists various sections like Overview, Activity log, Access control (IAM), Tags, Resource visualizer, Events, Settings, Deployments, Security, Deployment stacks, Policies, Properties, Locks, and Cost Management. Under the 'Essentials' section, there are two resources listed:

Name	Type	Location	Actions
jadtraining	Data factory (V2)	East US	...
jasacc	Storage account	East US	...

At the bottom right, there's a 'Give feedback' link.

Microsoft Azure | Data Factory > jadftrain | Search factory and documentation

Microsoft recently announced the public preview of Microsoft Fabric, a brand new and exciting way to build cloud-first data analytics. Click [here](#) to get started with Fabric Data Factory!

Data Factory > Validate all > Publish all (1)

Preview experience: Off

Factory Resources > Pipelines > switch_pipeline

Activities > Move and transform

Properties: General, Name: switch_pipeline, Description: , Annotations: + New

Parameters, Variables, Settings, Output

Activities: Move and transform, Synapse, Azure Data Explorer, Azure Function, Batch Service, Databricks, Data Lake Analytics, General, HDInsight, Iteration & conditionals, Machine Learning, Power Query

Microsoft Azure | Data Factory > jadftrain | Search factory and documentation

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Data Factory > Validate all > Publish all (1)

Set properties

Name: SwitchDataset, Successfully created day8_LS (Linked service).

Linked service: day8_LS

File path: Container / Directory / File name

First row as header: checked

Import schema: None

OK Back Cancel

Factory Resources > Pipelines > switch_pipeline

Activities > Move and transform

Properties: General, Name: switch_pipeline, Description: , Annotations: + New

Parameters, Variables, Settings, Output

Activities: Move and transform, Synapse, Azure Data Explorer, Azure Function, Batch Service, Databricks, Data Lake Analytics, General, HDInsight, Iteration & conditionals, Machine Learning, Power Query

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Publish all | Preview experience: Off

Factory Resources

- Pipelines: switch_pipeline (1)
- Change Data Capture (preview): 0
- Datasets:
 - Source (1)
 - SwitchDataset (1)
- Data flows: 0
- Power Query: 0

Filter resources by name: +

switch_pipeline ● SwitchDataset ● Source ●

DelimitedText SwitchDataset

Connection Schema Parameters

Linked service: day8_LS

File path: f-demo / @dataset().folder / File name

Compression type: Select...

Column delimiter: Comma (,)

Row delimiter: Default (\r,\n, or \r\n)

Encoding: Default(UTF-8)

Preview experience: Off

Shellunext_1693422651722@npunext.onmicrosoft.com UNEXT

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Publish all | Preview experience: Off

Factory Resources

- Pipelines: switch_pipeline (1)
- Change Data Capture (preview): 0
- Datasets:
 - SwitchDataset (1)
- Data flows: 0
- Power Query: 0

Filter resources by name: +

switch_pipeline ● SwitchDataset ●

DelimitedText SwitchDataset

Parameters

+ New | Delete

Name	Type	Default value
folder	String	Value

Preview experience: Off

Shellunext_1693422651722@npunext.onmicrosoft.com UNEXT

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Preview experience: Off

Data Factory > Validate all > Publish all

Factory Resources

- Pipelines (1)
 - switch_pipeline
- Datasets (1)
 - SwitchDataset
- Data flows (0)
- Power Query (0)

Activities

- switch_pipeline
- Iteration & conditionals
- Switch

Switch

Switch1

Default
No activities

Parameters

Name	Type	Default value
FolderName	String	Switch1

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Preview experience: Off

Data Factory > Validate all > Publish all

Factory Resources

- Pipelines (1)
 - switch_pipeline
- Datasets (1)
 - SwitchDataset
- Data flows (0)
- Power Query (0)

Activities

- switch_pipeline
- Iteration & conditionals
- Switch

Switch

Switch1

Default

Expression: @pipeline().parameters.FolderName

Add case

Case	Activity
Default	No activities
Switch1	No activities

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Data Factory Validate all Publish all

Preview experience Off

Factory Resources

- Pipelines 1
- switch_pipeline

- Change Data Capture (preview) 0

- Datasets 2
- SwitchDataset

- Data flows 0

- Power Query 0

switch_pipeline SwitchDataset Source

Properties

General Related

Name * Source

Description

Annotations + New

DelimitedText CSV Source

Connection Schema Parameters

Linked service * day8_LS

Test connection Edit New Learn more

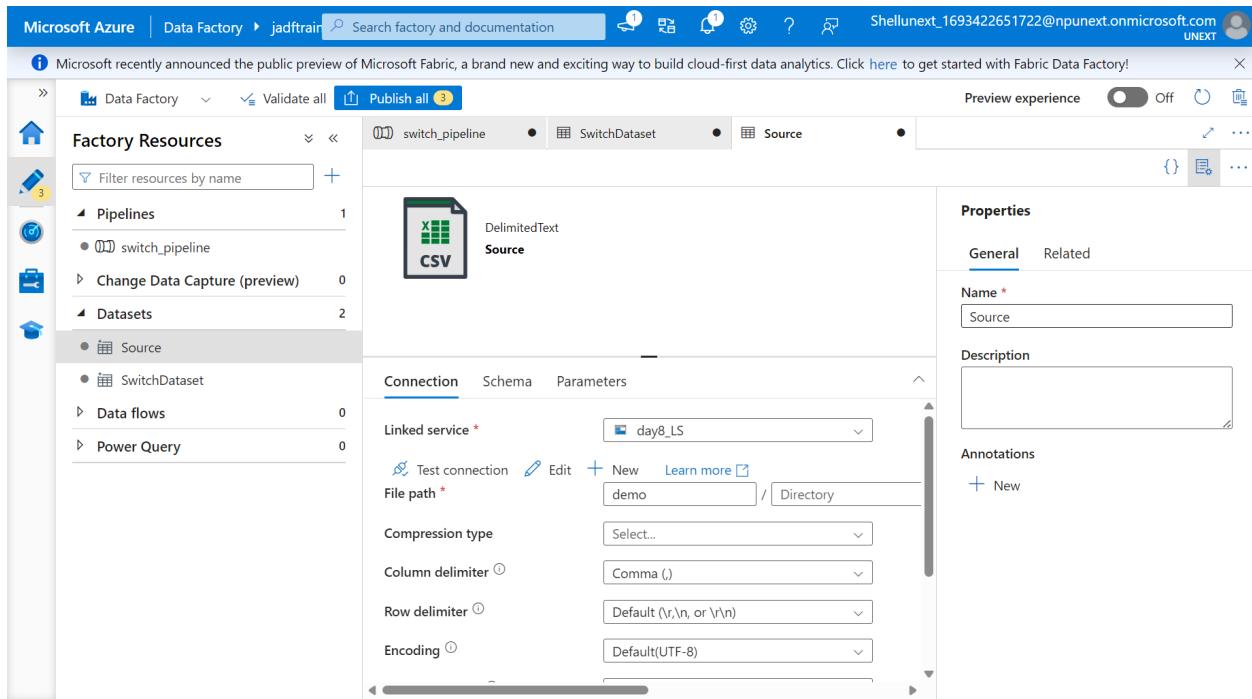
File path * demo / Directory

Compression type Select...

Column delimiter Comma (,)

Row delimiter Default (\r,\n, or \r\n)

Encoding Default(UTF-8)



Microsoft Azure | Data Factory > jadftrain | Search factory and documentation

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Data Factory Validate all Publish all

Preview experience Off

switch_pipeline SwitchDataset Source

Activities

- cop

Move and transform

- Copy data

Validate Validate copy runtime Debug Add trigger

switch_pipeline > Switch1 -

Copy data

Copy data1

General Source Sink Mapping Settings User properties

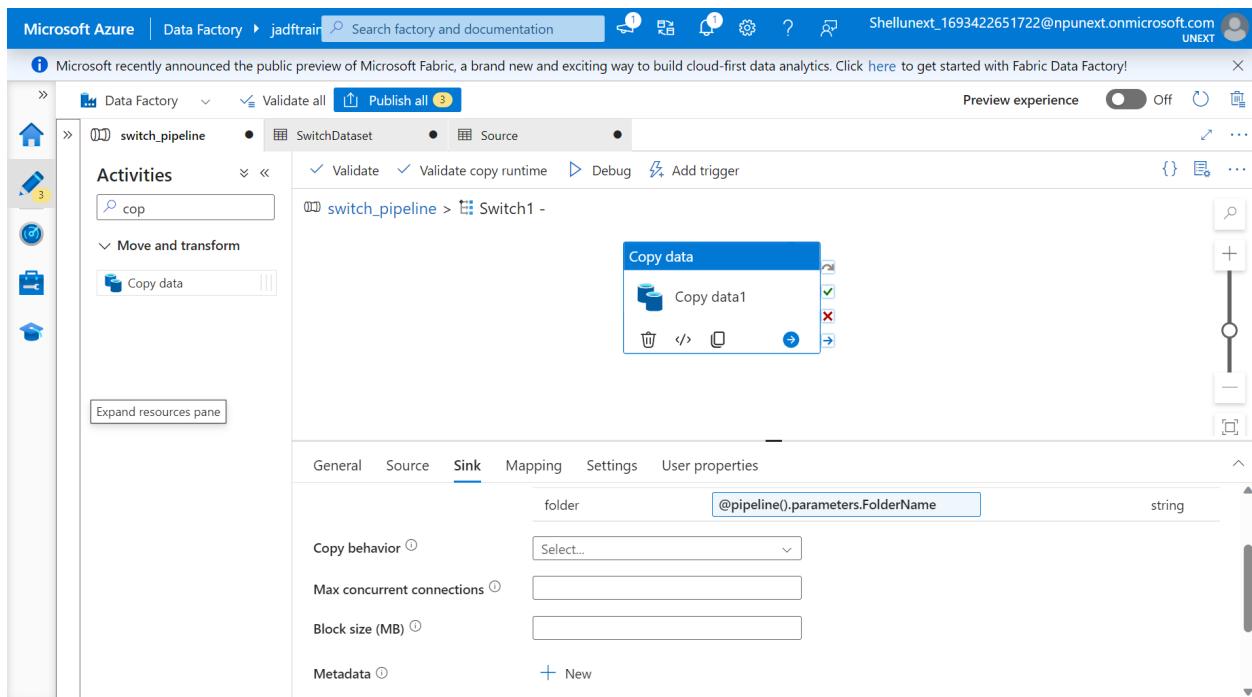
Sink folder @pipeline().parameters.FolderName string

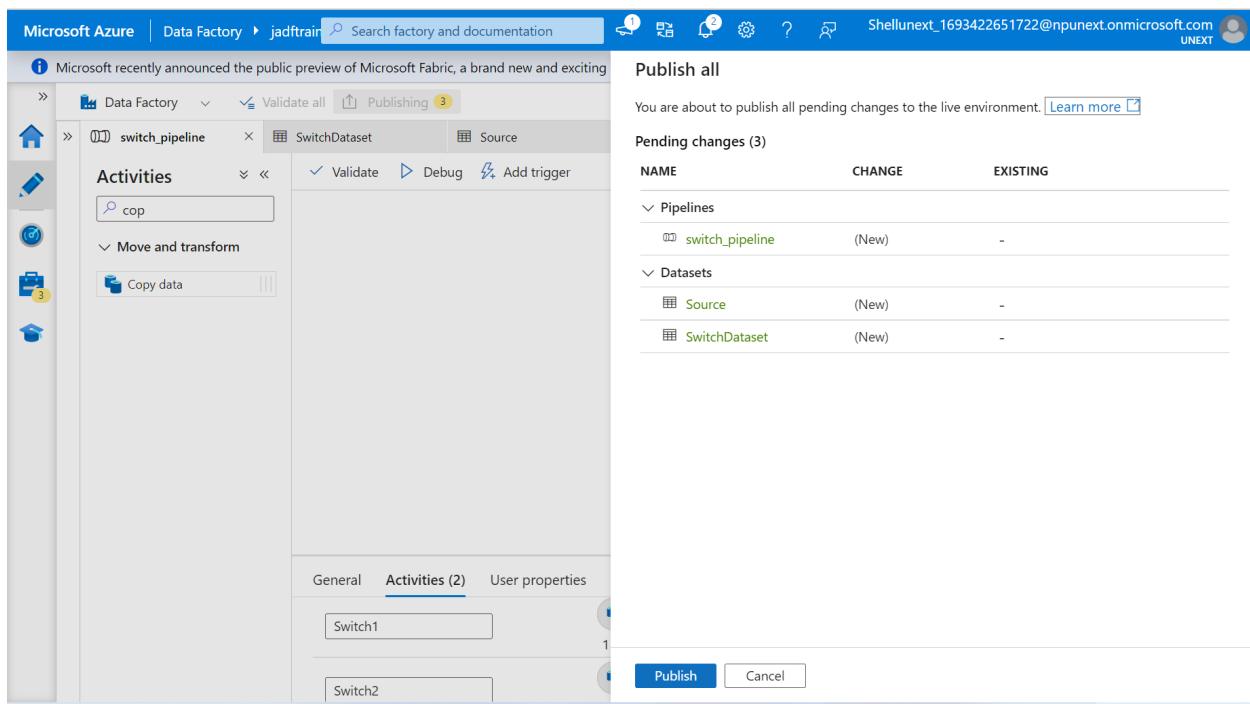
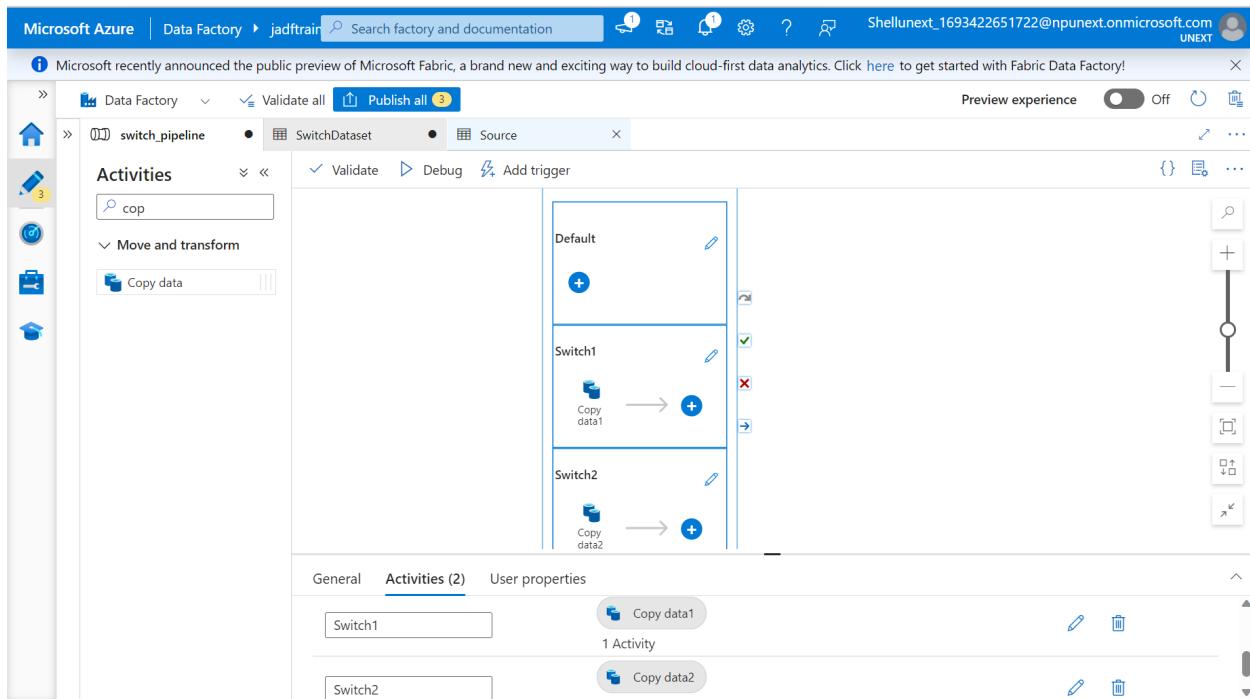
Copy behavior Select...

Max concurrent connections

Block size (MB)

Metadata + New





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Dashboard Runs Pipeline runs Trigger runs Change Data Capture (previ...) Runtimes & sessions Integration runtime Data flow debug Notifications Alerts & metrics

Output Copy to clipboard Learn more on output details

Switch Switch1 Default

Copy data1 Succeeded 9/7/2023, 10:08:45 AM 9s AutoResolveIntegration

Switch1 Succeeded 9/7/2023, 10:08:44 AM 11s

Monitor in Azure Metrics Export to CSV

This screenshot shows the Microsoft Azure Data Factory Pipeline Runs page. The left sidebar lists various navigation options like Dashboards, Runs, Pipeline runs, and Runtimes & sessions. The main area displays a successful pipeline run named 'Switch'. It includes a summary table with columns for Run start, Duration, Integration runtime, and User properties. Two activities are listed: 'Copy data1' and 'Switch1', both marked as 'Succeeded'.

Wait Activity

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Factory Resources Pipelines wait_pipeline Datasets Source SwitchDataset Activities Parameters Variables Settings Output

SwitchDataset Source wait_pipeline

Activities

- Move and transform
- Synapse
- Azure Data Explorer
- Azure Function
- Batch Service
- Databricks
- Data Lake Analytics
- General
- HDIInsight
- Iteration & conditionals
- Machine Learning
- Power Query

+ New Delete

Name	Type	Default value
waitTimelnSecond	Int	75
waitFinishMessage	String	Wait is Over

This screenshot shows the Microsoft Azure Data Factory Pipelines page. The left sidebar lists Pipelines, Datasets, and Data flows. The main area shows the configuration for a pipeline named 'wait_pipeline'. It includes tabs for Activities, Parameters, Variables, Settings, and Output. The Activities tab lists various data processing components. The Parameters tab defines two parameters: 'waitTimelnSecond' (Int type, default 75) and 'waitFinishMessage' (String type, default 'Wait is Over').

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Data Factory Validate all Publish all 1 Preview experience Off

SwitchDataset Source wait_pipeline

Activities Validate Debug Add trigger

Move and transform

Synapse

Azure Data Explorer

Azure Function

Batch Service

Databricks

Data Lake Analytics

General

HDInsight

Iteration & conditionals

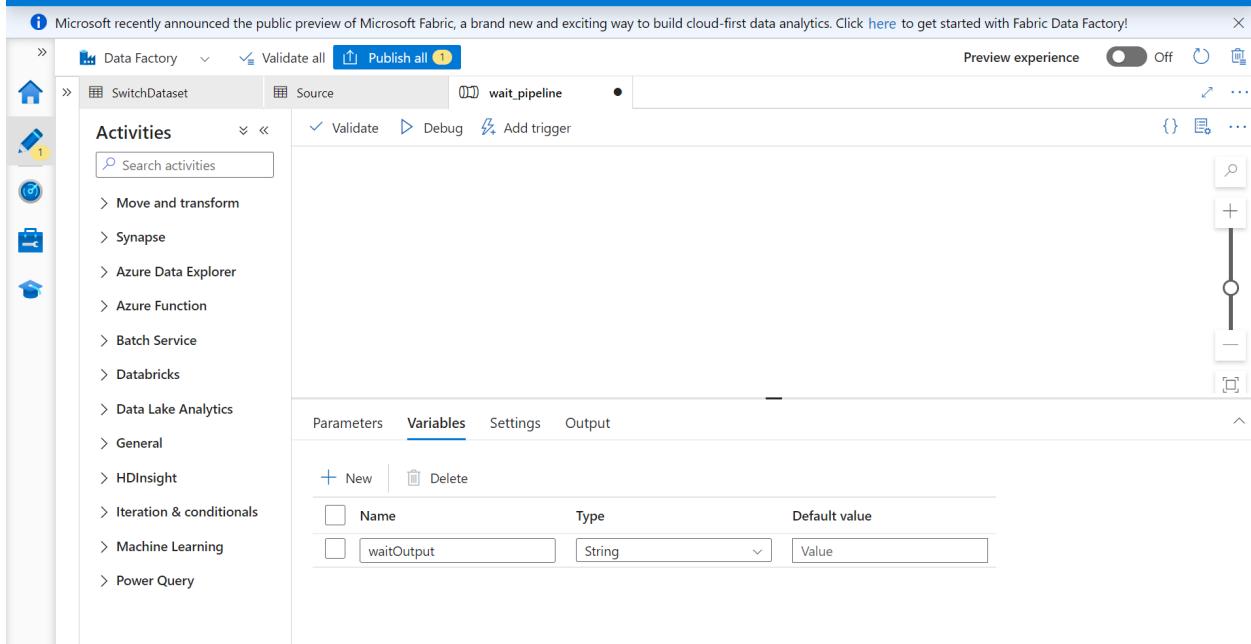
Machine Learning

Power Query

Parameters Variables Settings Output

+ New Delete

Name	Type	Default value
waitOutput	String	Value



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Data Factory Validate all Publish all 1 Preview experience Off

SwitchDataset Source wait_pipeline

Activities Validate Debug Add trigger

wa

General

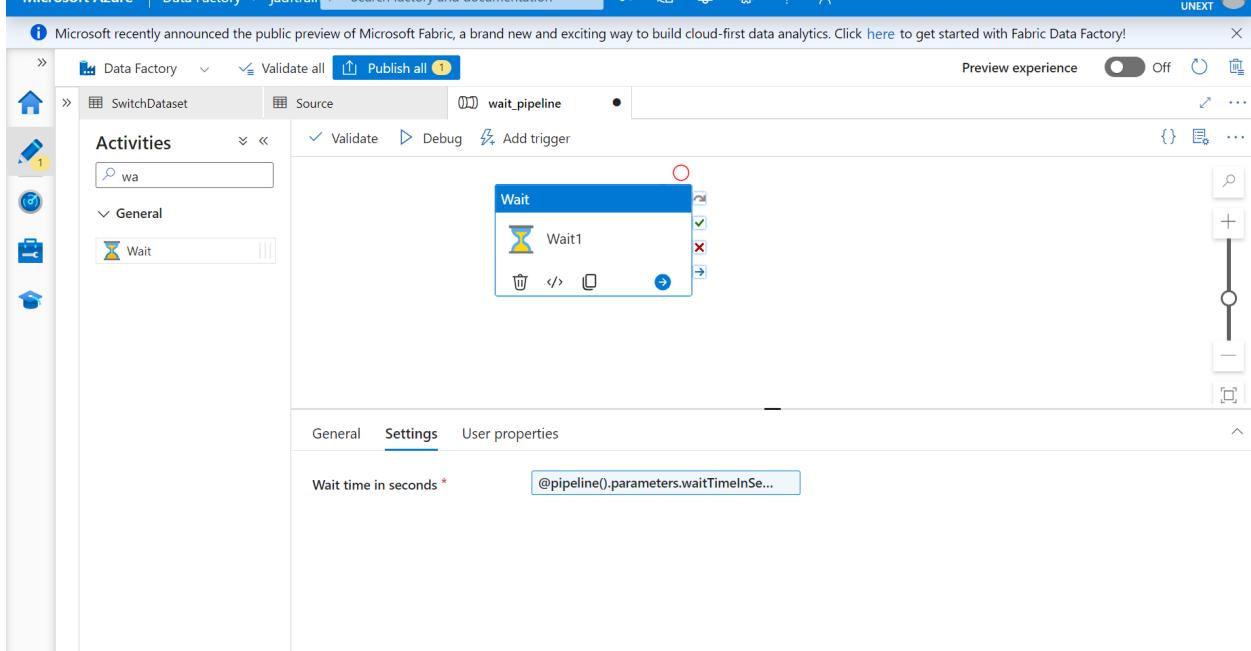
Wait

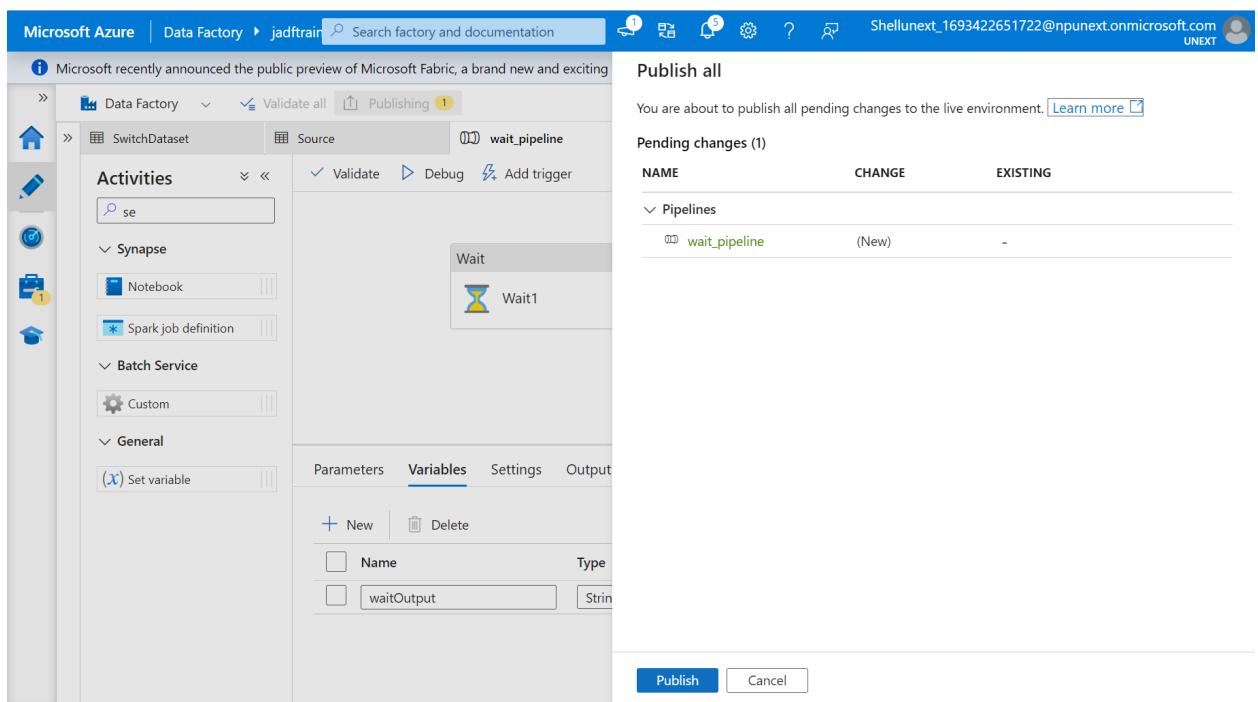
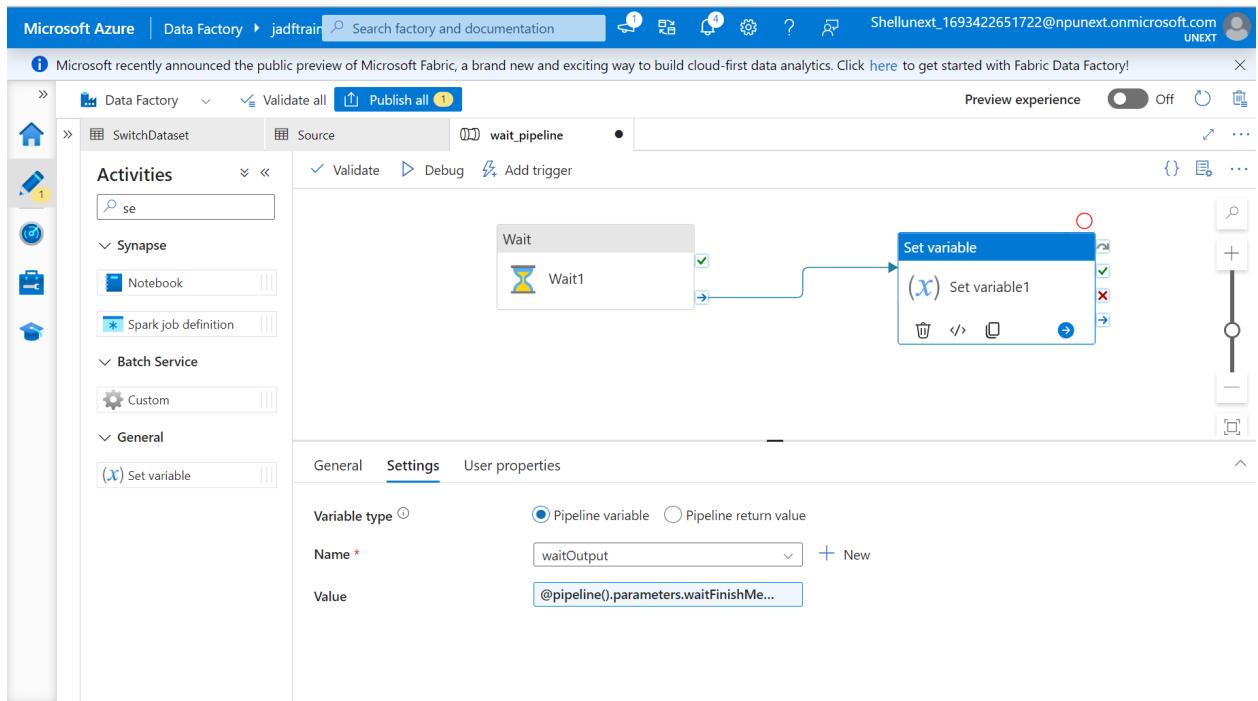
Wait

Wait1

General Settings User properties

Wait time in seconds * @pipeline().parameters.waitTimeInSe...





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All pipeline runs > wait_pipeline - Activity runs

Rerun Cancel Refresh Update pipeline List Gantt

Wait Set variable

Wait1 Set variable1

Output

Copy to clipboard

{ "name": "waitOutput", "value": "Wait is Over" }

Monitor in Azure Metrics Export to CSV

Integration runtime User properties

		Succeeded	9/7/2023, 10:35:16 AM	Less than 1s
Set variable1	Succeeded	9/7/2023, 10:34:00 AM	1m 16s	
Wait1	Succeeded			

Day 8 (07/09/2023) - Technically

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Data Factory Validate all Publish all

Preview experience Off

Factory Resources

Filter resources by name

Pipelines

- wait_pipeline
- switch_pipeline

Change Data Capture (preview)

Datasets

- Sink
- Source
- SwitchDataset

Data flows

- dataflow1

Power Query

dataflow1 Sink

Properties

General Related

Name * Sink

Description

Annotations

Connection Schema Parameters

Linked service * day8_LS

Test connection Edit New Learn more

File path * f-demo / Directory

Compression type Select...

Column delimiter Comma (,)

Row delimiter Default (\r,\n, or \r\n)

Encoding Default(UTF-8)

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Data Factory Validate all Publish all 2 Preview experience Off

Factory Resources

- Pipelines 2
 - wait_pipeline
 - switch_pipeline
- Change Data Capture (preview) 0
- Datasets 3
 - Sink
 - Source
 - SwitchDataset
- Data flows 1
 - dataflow1
- Power Query 0

Validate Data flow debug

Properties

General Related

Name * dataflow1

Description

dataflow1

source1 sink1

Columns: 8 total Add sink dataset

Add Source

Source settings Source options Projection ...

Dataset * Source

Test connection Open New

Options

Allow schema drift Infer drifted column types Validate schema

Skipped rows count

Microsoft Azure | Data Factory > jadfrain | Search factory and documentation

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Data Factory Publishing 2

Validate Data flow debug

dataflow1 Sink

Validate Data flow debug

Publish all

You are about to publish all pending changes to the live environment. [Learn more]

Pending changes (2)

NAME	CHANGE	EXISTING
datasets		
Sink	(New)	-
data flows		
dataflow1	(New)	-

Import data from Source

Sink Settings Errors Mapping

Output stream name *

Description

Incoming stream *

Sink type *

Publish Cancel

Microsoft Azure | Data Factory | jadtrain | Search factory and documentation

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Data Factory | Validate all | Publish all

Factory Resources

- Pipelines
 - dataflow_pipeline
 - switch_pipeline
 - wait_pipeline
- Change Data Capture (preview) 0
- Datasets 3
 - Sink
 - Source
 - SwitchDataset
- Data flows 1
 - dataflow1
- Power Query 0

Activities

- Move and transform
- Synapse
- Azure Data Explorer
- Azure Function
- Batch Service
- Databricks
- Data Lake Analytics
- General
- HDInsight
- Iteration & conditionals
- Machine Learning
- Power Query

dataflow1

Sink | Source

Activities

- Validate | Debug | Add trigger | Data flow debug

Publishing completed
Successfully published

Data flow

dataflow1

General | Settings | Parameters | User properties

Data flow * dataflow1

Run on (Azure IR) * AutoResolveIntegrationRuntime

Compute size * Small

Logging level * Verbose

Open | New

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All pipeline runs > dataflow_pipeline - Activity runs

Rerun | Cancel | Refresh | Update pipeline | List | Gantt

Runs

- Pipeline runs
- Trigger runs
- Change Data Capture (previ...)

Runtimes & sessions

- Integration runtime
- Data flow debug

Notifications

- Alerts & metrics

Output

Copy to clipboard

```
"runStatus": {  
    "idleTimeBeforeCurrentJob": 0,  
    "sparkVersion": "2.4",  
    "computeAcquisitionDuration": 204722,  
    "version": "20230906.7",  
    "profile": {  
        "source1": {  
            "computed": [],  
            "lineage": {}  
        }  
    }  
}
```

Monitor in Azure Metrics | Export to CSV

Run start	Duration	Integration runtime	User properties
9/7/2023, 11:25:42 AM	4m 12s	AutoResolveIntegratio	

Microsoft Azure | Data Factory | jadftrain | Search factory and documentation

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Data Factory Validate all Publish all 1 Preview experience Off

Factory Resources Employee

Pipelines 3

- dataflow_pipeline
- switch_pipeline
- wait_pipeline

Change Data Capture (preview) 0

Datasets 4

- Employee
- Sink
- Source
- SwitchDataset

Data flows 1

- dataflow1

Power Query 0

Employee

DelimitedText Employee

CSV

Connection Schema Parameters

Linked service * day8_LS

Test connection Edit New Learn more

File path * demo / Directory / Employee.csv

Compression type Select...

Column delimiter Comma (,)

Row delimiter Default (\r\n, or \n)

Encoding Default(UTF-8)

This screenshot shows the Microsoft Azure Data Factory interface. On the left, there's a navigation pane with icons for Home, Pipelines, Datasets, Data flows, and Power Query. The 'Datasets' section is expanded, showing a list of datasets including 'Employee'. The 'Employee' dataset is selected and shown in the main workspace. The 'Connection' tab is active, displaying configuration for a 'DelimitedText' dataset named 'Employee'. It includes fields for 'Linked service' (set to 'day8_LS'), 'File path' ('demo / Directory / Employee.csv'), and various encoding and delimiter settings. The 'Schema' and 'Parameters' tabs are also visible.

Microsoft Azure | Data Factory | jadftrain | Search factory and documentation

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Data Factory Validate all Publish all 2 Preview experience Off

Factory Resources Employee

Pipelines 3

Change Data Capture (preview) 0

Datasets 4

Data flows 2

- dataflow1
- Select_DF

Power Query 0

Select_DF

source1

Columns: 4 total

Add Source

Source settings Source options Projection Optimize Inspect Data preview

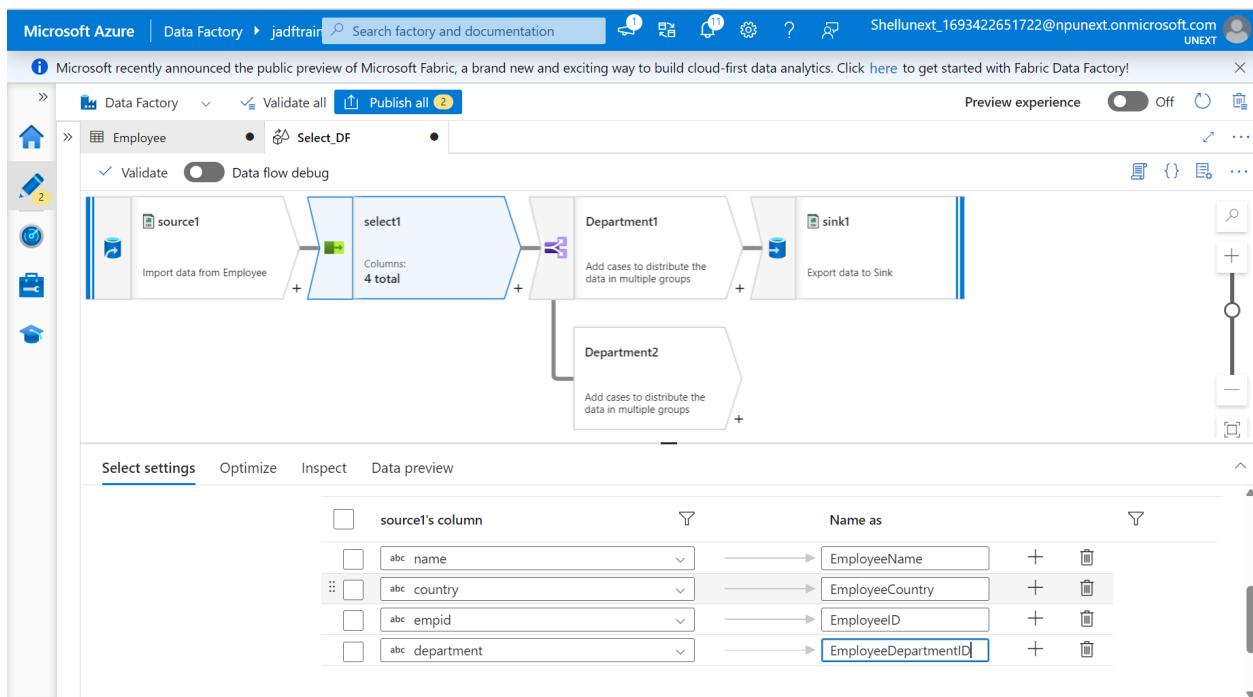
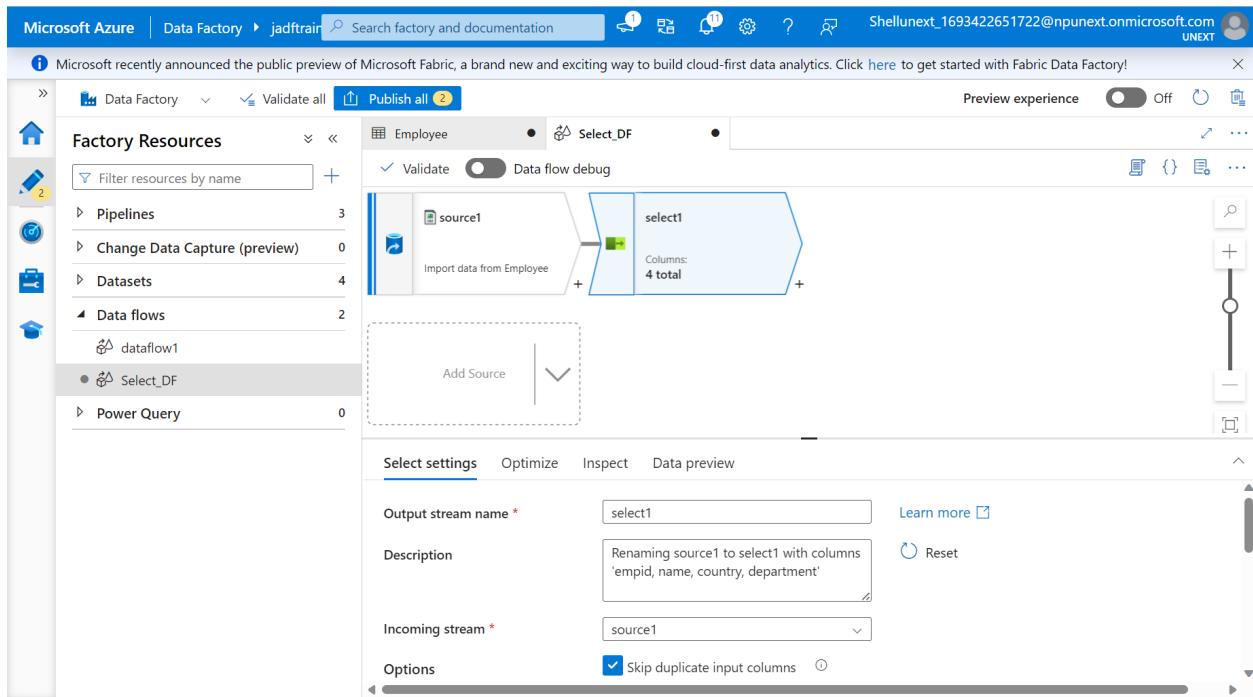
Source type * Dataset

Dataset * Employee

Options

- Allow schema drift
- Infer drifted column types
- Validate schema

This screenshot shows the Microsoft Azure Data Factory interface. The navigation pane on the left is similar to the previous screenshot, with the 'Data flows' section expanded. A data flow named 'Select_DF' is selected in the main workspace. The 'Source settings' tab is active, showing a 'source1' component with '4 total' columns. Below it, the 'Source type' is set to 'Dataset' and the 'Dataset' dropdown is set to 'Employee'. Under the 'Options' section, the 'Allow schema drift' checkbox is checked. Other options like 'Infer drifted column types' and 'Validate schema' are available but unchecked.



Microsoft Azure | Data Factory > jadftrain | Search factory and documentation

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Publish all 2 Preview experience Off

Factory Resources

- Pipelines
- Change Data Capture (preview)
- Datasets
- Data flows
 - dataflow1
 - Select_DF
- Power Query

Employee ● ⚙ Select_DF ●

Validate Data flow debug

source1 Import data from Employee + select1 Renaming source1 to select1 with columns 'EmployeeName, EmployeeCountry, EmployeeID' + sink1 Columns: 3 total

Add Source

Sink Settings Errors Mapping Optimize Inspect Data preview

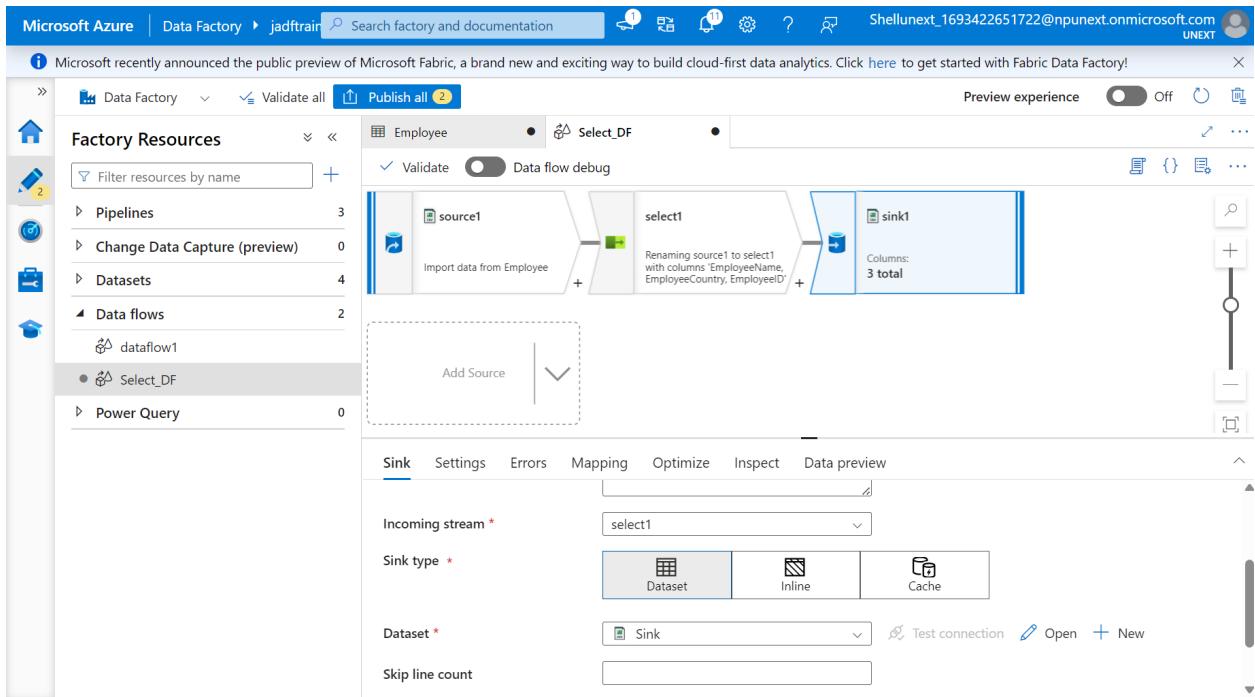
Incoming stream * select1

Sink type *

Dataset	Inline	Cache
---------	--------	-------

Dataset * Sink Test connection Open New

Skip line count



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Publish all 2 Preview experience Off

Factory Resources

- Pipelines
- Change Data Capture (preview)
- Datasets
- Data flows
 - dataflow1
 - Select_DF
- Power Query

Employee ● ⚙ Select_DF ●

Validate Data flow debug

source1 Import data from Employee + select1 Renaming source1 to select1 with columns 'EmployeeName, EmployeeCountry, EmployeeID' + sink1 Columns: 3 total

Add Source

Sink Settings Errors Mapping Optimize Inspect Data preview

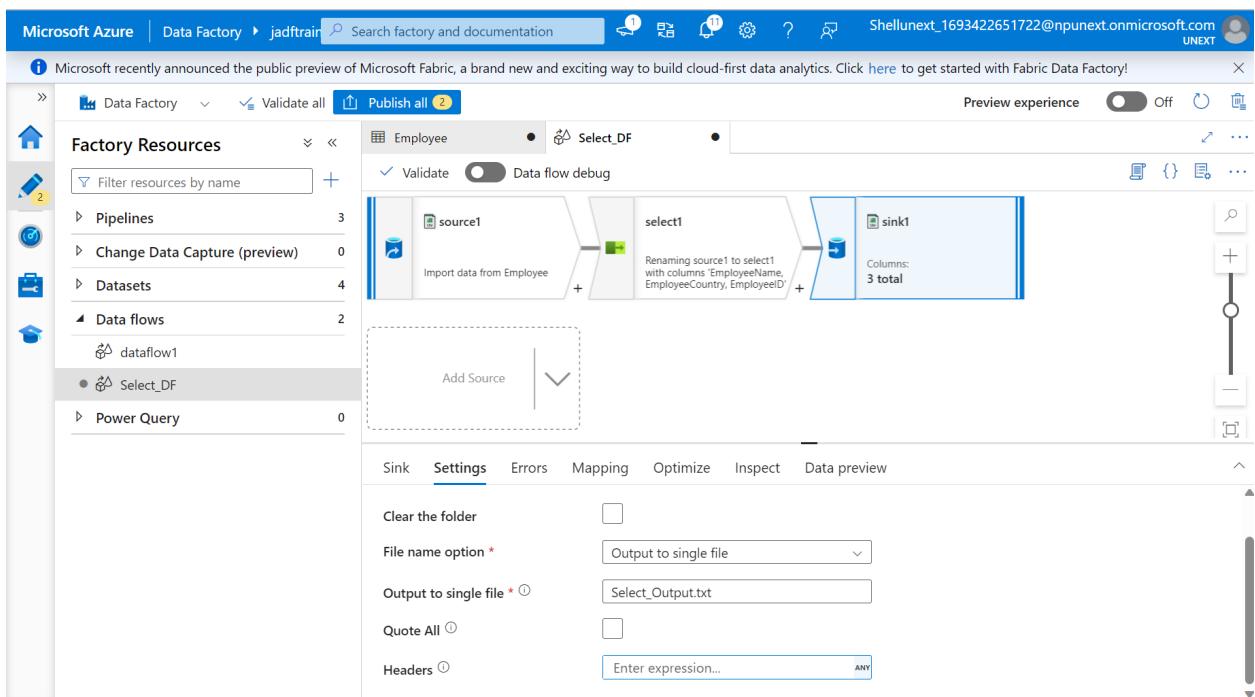
Clear the folder

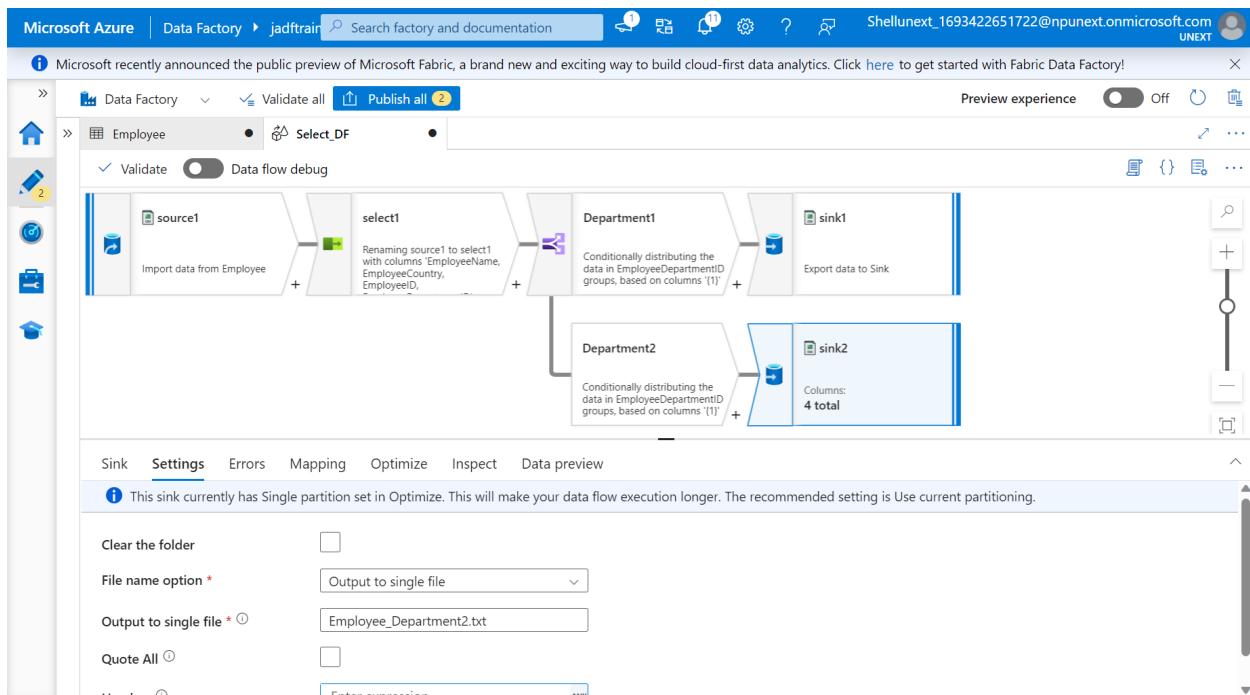
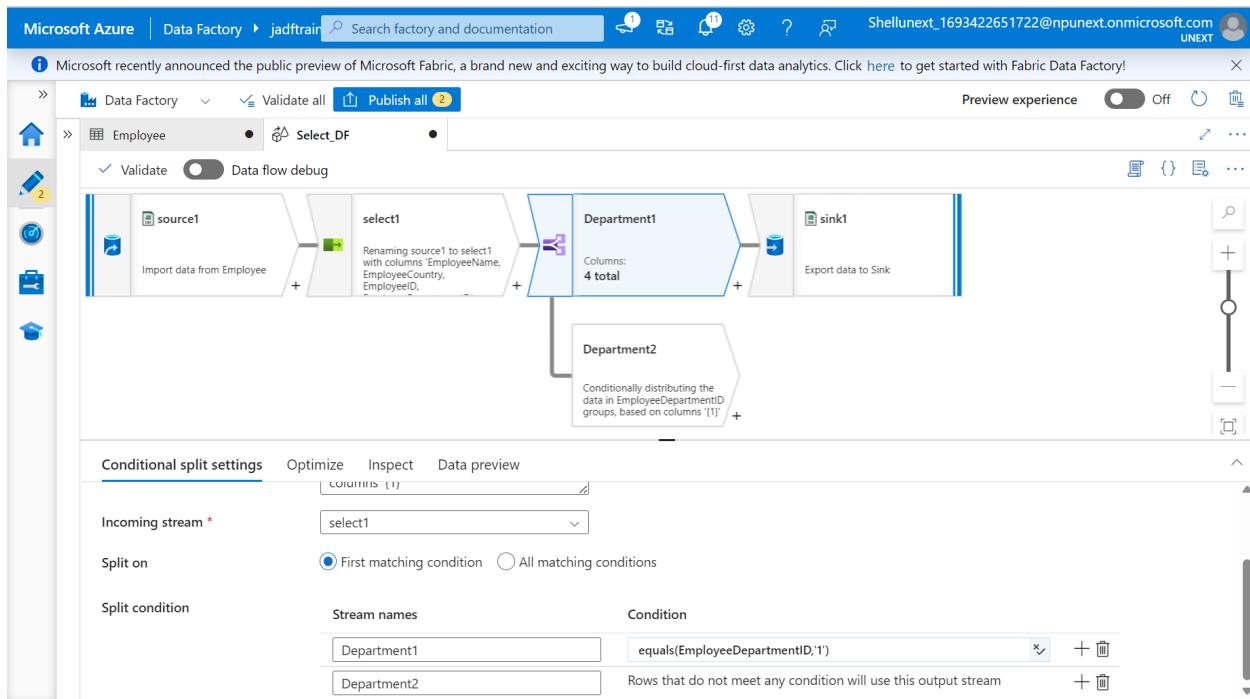
File name option * Output to single file

Output to single file * Select_Output.txt

Quote All

Headers Enter expression... ANY





Microsoft Azure | Data Factory > jadftrain | Search factory and documentation

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Preview experience: Off

Data Factory Validate all Publish all 3 Activities Select_DF select_pipeline Employee

Factory Resources Pipelines 4 dataflow_pipeline select_pipeline switch_pipeline wait_pipeline Change Data Capture (preview) 0 Datasets 4 Data flows 2 dataflow1 Select_DF Power Query 0

Activities Search activities Move and transform Synapse Azure Data Explorer Azure Function Batch Service Databricks Data Lake Analytics General HDInsight Iteration & conditionals Machine Learning Power Query

Data flow Select_DF

General Settings Parameters User properties

Name * Select_DF Description Activity state (preview) Active Timeout 0:12:00:00

Microsoft Azure | Data Factory > jadftrain | Search factory and documentation

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Rerun Cancel Refresh Update pipeline List Gantt

Runs Pipeline runs Trigger runs Change Data Capture (previ...) Runtimes & sessions Integration runtimes Data flow debug Notifications Alerts & metrics

Data flow Select_DF

Activity runs

Pipeline run ID 2e547b0c-16f2-4d5d-a1c6-3c7ba13ef081

All status Monitor in Azure Metrics Export to CSV

Showing 1 - 1 items

Activity name	Activity status	Run start	Duration	Integration runtime	User properties
Select_DF	Succeeded	9/7/2023, 12:06:37 PM	3m 2s	AutoResolveIntegration	

Microsoft Azure | Search resources, services, and docs (G+)

Home > jasacc

jasacc | Storage browser

Storage account

Add Directory Upload Change access level Refresh Delete Copy Paste Rename ...

Blob containers > f-demo

Authentication method: Access key (Switch to Azure AD User Account)

Add filter

Search blobs by prefix (case-sensitive)

Only show active blobs

Showing all 5 items

Name	Last modified	Access tier	Blob type	Size	Lease state
Switch1					...
Employee_Department1.txt	9/7/2023, 12:09:35 PM	Hot (Inferred)	Block blob	151 B	Available
Employee_Department2.txt	9/7/2023, 12:09:34 PM	Hot (Inferred)	Block blob	128 B	Available
_SUCCESS	9/7/2023, 11:29:49 AM	Hot (Inferred)	Block blob	0	Available
part-00000-e040d003-04ac-4c22-bc53...	9/7/2023, 11:29:49 AM	Hot (Inferred)	Block blob	579 B	Available

Microsoft Azure | Data Factory | jadftrain | Search factory and documentation

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Data Factory Validate all Publish all 1 Preview experience Off

Factory Resources

- Pipelines (4)
 - dataflow_pipeline
 - select_pipeline
 - switch_pipeline
 - wait_pipeline
- Change Data Capture (preview) (0)
- Datasets (4)
- Data flows (3)
 - dataflow1
 - Derived_DF
 - Select_DF
- Power Query (0)

Derived_DF

Validate Data flow debug

source1 Import data from Employee + derivedColumn1 Columns: 5 total

Add Source

Derived column's settings Optimize Inspect Data preview

source1

Add Clone Delete Open expression builder

Column Expression

country upper(country)

CurrentDate currentDate()

Microsoft Azure | Data Factory > jadtrain | Search factory and documentation

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Publish all 1 Preview experience Off

Factory Resources

- Pipelines (4)
 - dataflow_pipeline
 - select_pipeline
 - switch_pipeline
 - wait_pipeline
- Change Data Capture (preview) (0)
- Datasets (4)
- Data flows (3)
 - dataflow1
 - Derived_DF
 - Select_DF
- Power Query (0)

Derived_DF

Validate Data flow debug

source1 → derivedColumn1 → sink1

Creating/updating the columns 'empid, name, country, department, CurrentDate'

Columns: 5 total

Add Source

Sink Settings Errors Mapping Optimize Inspect Data preview

This sink currently has Single partition set in Optimize. This will make your data flow execution longer. The recommended setting is Use current partitioning.

Clear the folder

File name option * Output to single file

Output to single file * Derived_Column.txt

Quote All

Microsoft Azure | Data Factory > jadtrain | Search factory and documentation

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Publish all Preview experience Off

Factory Resources

- Pipelines (4)
 - dataflow_pipeline
 - select_pipeline
 - switch_pipeline
 - wait_pipeline
- Change Data Capture (preview) (0)
- Datasets (4)
- Data flows (3)
 - dataflow1
 - Derived_DF
 - Select_DF
- Power Query (0)

Derived_DF

dataflow_pipeline

Validate Debug Add trigger Data flow debug

Activities

- Move and transform
- Synapse
- Azure Data Explorer
- Azure Function
- Batch Service
- Databricks
- Data Lake Analytics
- General
- HDI insight
- Iteration & conditionals
- Machine Learning
- Power Query

Data flow

dataflow1

General Settings Parameters User properties

Data flow * Derived_DF

Run on (Azure IR) * AutoResolveIntegrationRuntime

Compute size * Small

Advanced

Logging level * Verbose

Microsoft Azure Search resources, services, and docs (G+)

Home > jasacc

jasacc | Storage browser

Storage account

Add Directory Upload Change access level Refresh Delete Copy Paste Rename ...

Blob containers > f-demo

Authentication method: Access key (Switch to Azure AD User Account)

Add filter

Search blobs by prefix (case-sensitive) Only show active blobs

Showing all 6 items

Name	Last modified	Access tier	Blob type	Size	Lease state
Derived_Column.txt	9/7/2023, 12:26:32 PM	Hot (Inferred)	Block blob	298 B	Available
Employee_Department1.txt	9/7/2023, 12:09:35 PM	Hot (Inferred)	Block blob	151 B	Available
Employee_Department2.txt	9/7/2023, 12:09:34 PM	Hot (Inferred)	Block blob	128 B	Available
_SUCCESS	9/7/2023, 11:29:49 AM	Hot (Inferred)	Block blob	0	Available
part-00000-e040d003-04ac-4c22-bc53...	9/7/2023, 11:29:49 AM	Hot (Inferred)	Block blob	579 B	Available

Union

Microsoft Azure Data Factory jadftrain Search factory and documentation

Microsoft recently announced the public preview of Microsoft Fabric, a brand new and exciting way to build cloud-first data analytics. Click [here](#) to get started with Fabric Data Factory!

Data Factory Validate all Publish all 3

Preview experience Off

Factory Resources

Filter resources by name

- switch_pipeline
- wait_pipeline
- Change Data Capture (preview)
- Datasets
 - EmpDept1
 - EmpDept2
 - Employee
 - Sink
 - Source
 - SwitchDataset
- Data flows
 - dataflow1
 - Union_DF
 - Derived_DF
 - Select_DF

Validate Data flow debug

Union settings

Description: Combining rows from transformation 'source1, source2'

Incoming stream *: source1

Union by *: Name

Union with *: source2

Microsoft Azure | Data Factory > jadftrain | Search factory and documentation

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Data Factory Publishing

Deploying changes to the factory

Activities

- > Move and transform
- > Synapse
- > Azure Data Explorer
- > Azure Function
- > Batch Service
- Expand resources pane
- > Data Lake Analytics
- > General
- > HDInsight
- > Iteration & conditionals
- > Machine Learning
- > Power Query

Data flow

dataflow1

General Settings Parameters User properties

Data flow * Union_DF

Run on (Azure IR) * AutoResolveIntegrationRuntime

Compute size * Small

Logging level * Verbose

Preview experience Off

Microsoft Azure | Data Factory > jadftrain | Search factory and documentation

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Factory Resources

Filter resources by name

Change Data Capture (preview)

Datasets

- EmpDept1
- EmpDept2
- Employee
- Sink
- Source
- SwitchDataset

Data flows

- dataflow1
- Sort_DF
- Derived_DF
- Select_DF
- Union_DF

union_pipeline Sort_DF

Validate Data flow debug

source1 Import data from Employee

sort1 Columns: 4 total

Add Source

Sort settings Optimize Inspect Data preview

Sort only within partition

source1's column Order Nulls first

- abc empid Descending
- abc name Ascending

Preview experience Off

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Validate all Publish all

Factory Resources

Activities

Data flow Sort_DF

sort_pipeline

sort_pipeline

Validate Debug Add trigger Data flow debug

Publishing completed Successfully published

General Settings Parameters User properties

Name * Sort_DF

Description

Activity state (preview) Active Inactive

Timeout 0:12:00:00

This screenshot shows the Microsoft Azure Data Factory pipeline editor. A message at the top indicates the public preview of Microsoft Fabric. The left sidebar lists 'Factory Resources' under 'Datasets' (EmpDept1, EmpDept2, Employee, Sink, Source, SwitchDataset) and 'Data flows' (dataflow1, Sort_DF, Derived_DF, Select_DF, Union_DF). The main area shows a pipeline named 'sort_pipeline' with one activity, 'Sort_DF'. The pipeline has a green checkmark indicating it is successfully published. The 'General' tab is selected, showing the name 'Sort_DF', a description field, an active status, and a timeout of 0:12:00:00.

Microsoft Azure | Data Factory > jadftrain | Search factory and documentation

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Validate all Publish all 1

Preview experience Off

Factory Resources

Datasets

SurrogateKeyDataset SurrogateKey_DF

Validate Data flow debug

source1 Import data from SurrogateKeyDataset

surrogateKey1 Adding new key SKEmpKey starting from 1 with step 1

sink1 Columns: 4 total

Add Source

Mapping

Sink Settings Errors Mapping Optimize Inspect Data preview

Input columns Output columns

121 SKEmpKey → SKEmpKey

abc Country → Country

abc DepID → DepID

abc Name → Name

This screenshot shows the Microsoft Azure Data Factory pipeline editor. A message at the top indicates the public preview of Microsoft Fabric. The left sidebar lists 'Factory Resources' under 'Datasets' (EmpDept1, EmpDept2, Employee, Sink, Source, SwitchDataset) and 'Data flows' (dataflow1, SurrogateKey_DF, Derived_DF, Select_DF, Sort_DF, Union_DF). The main area shows a data flow named 'SurrogateKey_DF' with three stages: 'source1' (Import data from SurrogateKeyDataset), 'surrogateKey1' (Adding new key SKEmpKey starting from 1 with step 1), and 'sink1' (Columns: 4 total). The 'Mapping' tab is selected, showing the mapping between input columns (121 SKEmpKey, abc Country, abc DepID, abc Name) and output columns (SKEmpKey, Country, DepID, Name). The 'Preview experience' toggle is off.

Microsoft Azure | Data Factory > jadtrain | Search factory and documentation

Microsoft recently announced the public preview of Microsoft Fabric, a brand new and exciting way to build cloud-first data analytics. Click [here](#) to get started with Fabric Data Factory! X

Data Factory Validate all Publish all 2 Preview experience Off

Factory Resources

Filter resources by name +

- switch_pipeline
- union_pipeline
- wait_pipeline

Change Data Capture (preview) 0

- Datasets 8
 - EmpDept1
 - EmpDept2
 - EmpGenderDataset
 - Employee
 - Sink
 - Source
 - SurrogateKeyDataset
 - SwitchDataset
- Data flows 6
 - dataflow1
 - Filter_DF

EmpGenderDataset ● Filter_DF ●

Validate Data flow debug

Add Source

Filter settings Optimize Inspect Data preview

Output stream name * filter1 Learn more ↗

Description Filtering rows using expressions on columns 'department'

Reset

Incoming stream * source1

Filter on * equals(department,'Payroll')

Microsoft Azure | Data Factory > jadtrain | Search factory and documentation

Microsoft recently announced the public preview of Microsoft Fabric, a brand new and exciting way to build cloud-first data analytics. Click [here](#) to get started with Fabric Data Factory! X

Data Factory Validate all Publish all 1 Preview experience Off

Factory Resources

Filter resources by name +

- Pipelines 7
- Change Data Capture (preview) 0
- Datasets 8
- Data flows 7
 - dataflow1
 - dataflow2
 - Derived_DF
 - Filter_DF
 - Select_DF
 - Sort_DF
 - Union_DF
 - Power Query 0

dataflow2 ●

Validate Data flow debug

Add Source

Aggregate settings Optimize Inspect Data preview

Group by Aggregates

Grouped by: department

Add Clone Delete Open expression builder

Column	Expression
TotalEmployees	count(epid)

Microsoft Azure | Data Factory | jadtrain | Search factory and documentation

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Preview experience: Off

Factory Resources

Data flows

Emp_Dept_Join_DF

Employee

join1

Department

Join settings

Optimize

Inspect

Data preview

Left stream * Employee

Right stream * Department

Join type *

Full outer

Inner

Left outer

Right outer

Custom (cross)

Use fuzzy matching

Join conditions *

Left: Employee's column

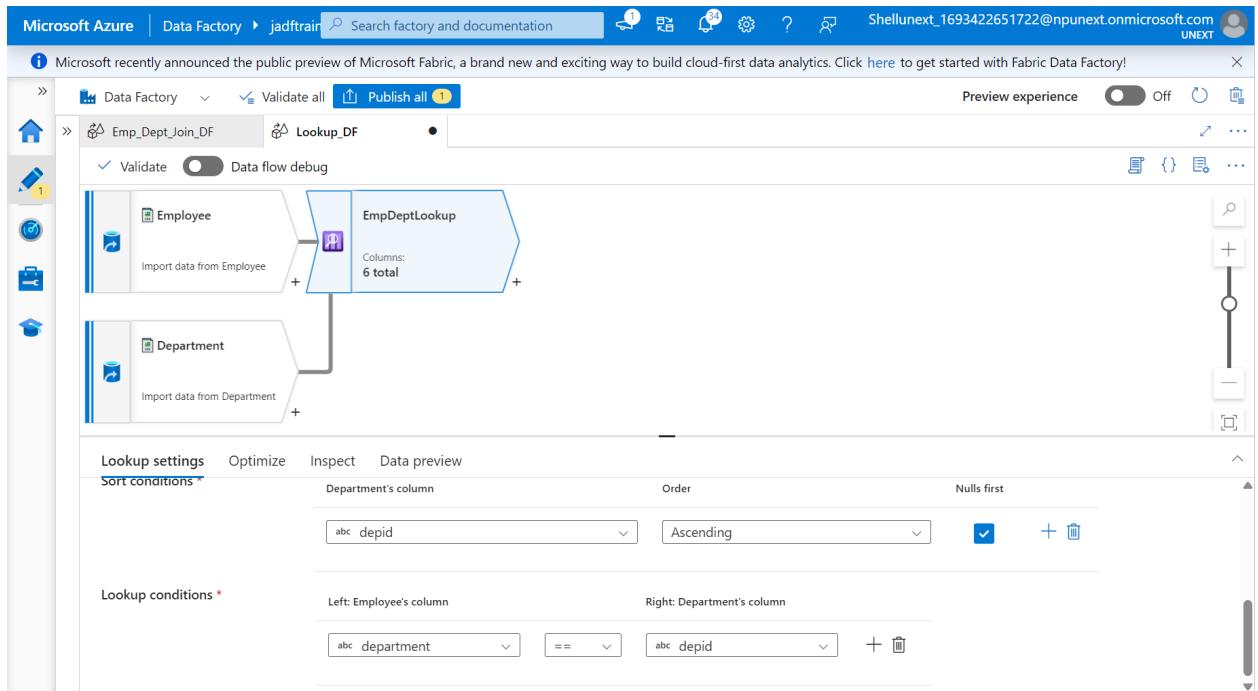
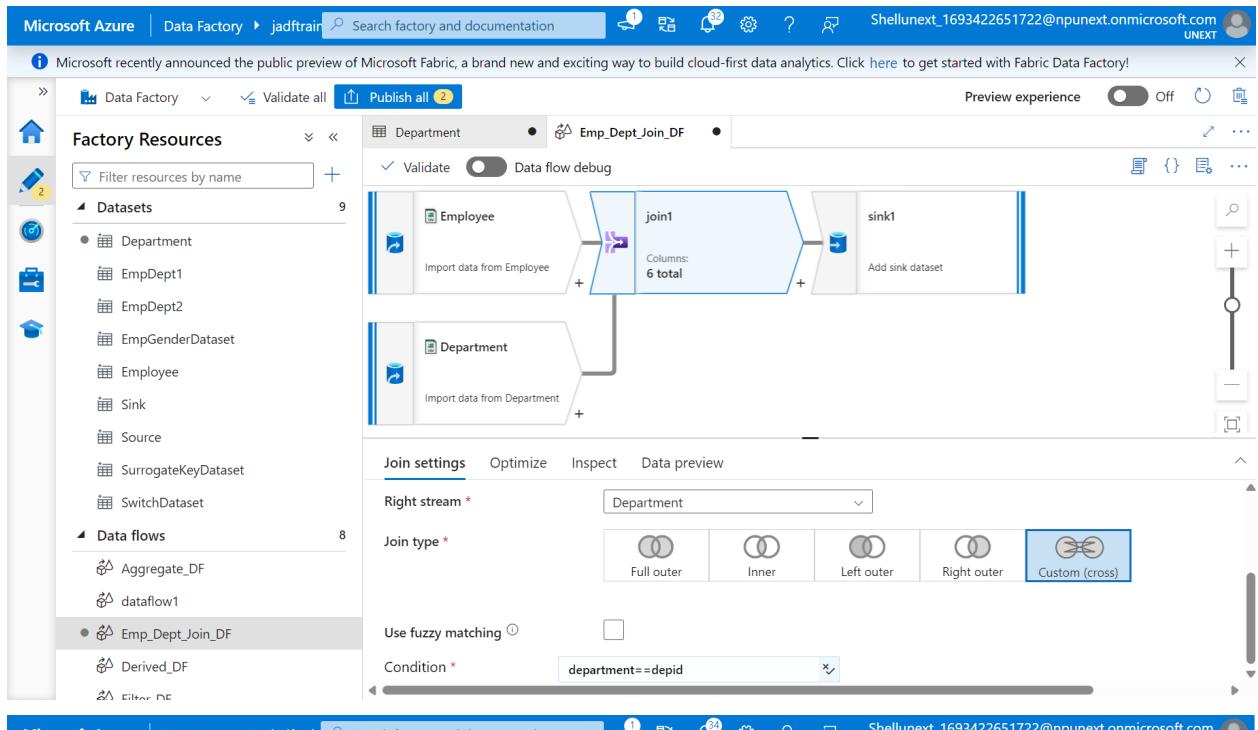
Right: Department's column

abc department

==

abc depid

+



Microsoft Azure | Data Factory | jadftrain | Search factory and documentation

Microsoft recently announced the public preview of Microsoft Fabric, a brand new and exciting

Data Factory Validate all Publish all 1

Factory Resources Pipelines rest_pipeline Activities

Filter resources by name +

Pipelines: AG_pipeline, dataflow_pipeline, filter_pipeline, rest_pipeline (selected), select_pipeline, sort_pipeline, switch_pipeline, union_pipeline, wait_pipeline

Activities: Move and transform, Synapse, Azure Data Explorer, Azure Function, Batch Service, Databricks, Data Lake Analytics, General, HDInsight, Iteration & conditionals, Machine Learning, Power Query

New linked service REST Learn more

Name * RestService1

Description

Connect via integration runtime * AutoResolveIntegrationRuntime

Base URL * https://swapi.dev/api/people

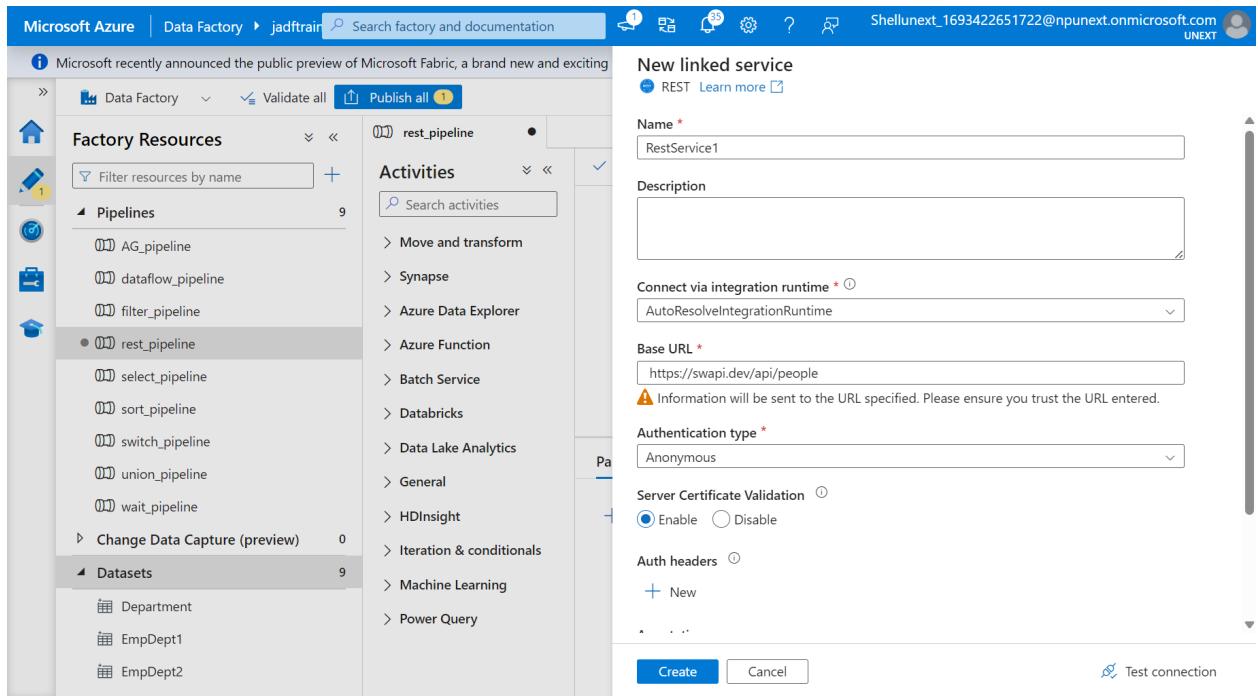
Information will be sent to the URL specified. Please ensure you trust the URL entered.

Authentication type * Anonymous

Server Certificate Validation Enable (radio button selected) Disable

Auth headers New

Create Cancel Test connection



Microsoft Azure | jasa | Overview | Search resources, services, and docs (G+)

Home > jasa | Overview | Blob: data_de7863f1-f590-4573-a176-1919e6e575e8_49c4f120-b679-4d3c-8bb0-c087a1d8adc6.txt

jasa

data_de7863f1-f590-4573-a176-1919e6e575e8_49c4f120-b679-4d3c-8bb0-c087a1d8adc6.txt

File Edit View

```
count,next,previous
"82","https://swapi.dev/api/people/?page=2",
```

Ln 1, Col 1 | 100% | Windows (CRLF) | UTF-8

CONTENT-ENCODING

CONTENT-LANGUAGE

Downloads

data_de7863f1-f590-4573-a176-1919e6e575e8_49c4f12... Open file

