

Cloud Understanding

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Parameterization

There are 3 ways to parametrize in ADF

- Parameter
- Variables
- Expression

Parameters are simply input values for operations in data factory. Each action has set of predefined parameters that needs to be supplied.

Variables are temporary values that are used within pipeline and workflows to control execution of the workflows. Variables can be modified through expressions using Set Variable action during the execution of the workflow.

Expression is JSON based formula, which allow for modification of variables or any parameters for pipeline, action or connection in Data Factory.

User properties & Mapping

The screenshot shows the Microsoft Azure Storage account interface for a container named 'file'. The left sidebar includes options like Overview, Diagnose and solve problems, Access Control (IAM), Shared access tokens, Manage ACL, Access policy, Properties, and Metadata. The main area displays a blob named 'emp.csv'. The blob's content is a CSV file with 12 rows of data:

	Empid	fname	lname	age	city
1	101	aaa	aaa	20	city1
2	102	bbb	bbb	30	city2
3	103	aaa	aaa	20	city3
4	104	bbb	bbb	30	city4
5	105	aaa	aaa	20	city5
6	106	bbb	bbb	30	city6
7	107	aaa	aaa	20	city7
8	108	bbb	bbb	30	city8
9	109	aaa	aaa	20	city9
10	110	bbb	bbb	30	city10
11	111	aaa	aaa	20	city11

Below the blob content, there are 'Csv' and 'Preview' buttons.

User properties & Mapping

The screenshot shows the Microsoft Azure Storage account interface. On the left, the 'file' container is selected under 'Overview'. In the center, the 'salary.csv' blob is displayed. The file content is as follows:

	Empid	fname	bsalary	gsalary
1	101	aaa	1000	1000
2	102	bbb	2000	2000
3	103	aaa	3000	3000
4	104	bbb	4000	4000
5	105	aaa	5000	5000
6	106	bbb	6000	6000
7	107	aaa	7000	7000
8	108	bbb	8000	8000
9	109	aaa	9000	9000
10	110	bbb	10000	10000
11	111	aaa	11000	11000
12				

At the bottom, there are 'Csv' and 'Preview' buttons.

User properties & Mapping

Microsoft Azure [Upgrade](#) [✉](#) [🔗](#) [🔔](#) [⚙️](#) [❓](#) [🔍](#)

Home > h (db1server1/h) > db1server1 > org (db1server1/org)

org (db1server1/org) | Query editor (preview)

SQL database

Search (Cmd+/) [Login](#) [New Query](#) [Open query](#) [Feedback](#)

Overview Activity log Tags Diagnose and solve problems Getting started Query editor (preview)

Showing limited object explorer here. For full capability please open SSDT.

Tables

- dbo.emp
 - empid (int, null)
 - fname (varchar, null)
 - lname (varchar, null)
 - age (int, null)
 - city (varchar, null)
- dbo.salary
 - empid (int, null)
 - fname (varchar, null)
 - bsalary (float, null)
 - gsalary (float, null)

Query 1

Run Cancel query [Save query](#) [Export data as](#) Show only Editor

```
1 select * from [dbo].[emp]
```

Results Messages

Search to filter items...

empid	fname	lname	age	city
No results				

User properties & Mapping

Microsoft Azure | Adminadmin

Search

Data Factory Validate all Publish all 3

pipeline1

Activities

Move & transform

Azure Data Explorer

Azure Function

Batch Service

Databricks

Data Lake Analytics

General

HDIInsight

Iteration & conditionals

Machine Learning

Power Query

Copy data

Copy data1

Add trigger

Validate Validate copy runtime Debug Add trigger

Properties

General Related

Name * pipeline1

Description

Timeout 7.00:00:00

Retry 0

Retry interval (sec) 30

Secure output

Secure input

The screenshot shows the Microsoft Azure Data Factory pipeline editor. On the left, there's a navigation pane with various activity categories like Move & transform, Azure Data Explorer, etc. The main area shows a pipeline named 'pipeline1' with a single 'Copy data' activity named 'Copy data1'. The activity has tabs for General, Source, Sink, Mapping, Settings, and User properties. The General tab is selected, showing fields for Name (set to 'Copy data1'), Description, Timeout (set to 7.00:00:00), Retry (set to 0), Retry interval (set to 30 seconds), Secure output, and Secure input. To the right, there's a Properties panel with tabs for General and Related, and sections for Name (set to 'pipeline1'), Description, and Annotations.

User properties & Mapping

Microsoft Azure | Adminadmin

Search Publish all 3

Activities pipeline1

Validate Validate copy runtime Debug Add trigger

Copy data1

Properties

General Related

Name * pipeline1

Description

Timeout 7.00:00:00

Retry 0

Retry interval (sec) 30

Secure output

Secure input

The screenshot shows the Microsoft Azure Data Factory pipeline editor. On the left, there's a sidebar with icons for Home, Pipeline, Data Flow, and Monitor. The main area shows a pipeline named 'pipeline1' with one activity, 'Copy data1'. The activity is highlighted with a blue border. Below the activity, there are tabs for General, Source, Sink, Mapping, Settings, and User properties. The General tab is selected, showing fields for Name (set to 'Copy data1'), Description (empty), Timeout (set to 7.00:00:00), Retry (set to 0), Retry interval (sec) (set to 30), Secure output (unchecked), and Secure input (unchecked). To the right of the activity, there's a 'Properties' panel with tabs for General and Related. The General tab is selected, showing fields for Name (set to 'pipeline1') and Description (empty). There are also sections for Annotations and a '+ New' button.

User properties & Mapping

Microsoft Azure | Admin/admin

Search

Data Factory Validate all Publish all

pipeline1 DelimitedText1

Activities Validate Validate copy runtime Debug Add trigger

Move & transform Azure Data Explorer Azure Function Batch Service Databricks Data Lake Analytics General Source Sink Mapping Settings User properties

Source dataset * DelimitedText1 Open New Preview data Learn more

File path type File path in dataset Wildcard file path List of files

Start time (UTC) End time (UTC)

Filter by last modified Recursively Enable partition discovery Max concurrent connections Skip line count Additional columns

+ New

User properties & Mapping

The screenshot shows the Microsoft Azure Data Factory interface. On the left, the navigation pane includes icons for Home, New, Pipelines, Activities, and Tools. The main area shows a pipeline named 'pipeline1' under 'Activities'. A search bar for activities is present. The 'Preview data' section displays the 'emp.csv' file from a linked service 'AzureDataLakeStorage1'. The data is presented in a table with columns: Empid, fname, lname, age, and city. The data rows are:

Empid	fname	lname	age	city
101	aaa	aaa	20	city1
102	bbb	bbb	30	city2
103	aaa	aaa	20	city3
104	bbb	bbb	30	city4
105	aaa	aaa	20	city5
106	bbb	bbb	30	city6
107	aaa	aaa	20	city7
108	bbb	bbb	30	city8

On the right, there is a sidebar with user information ('suresh.arumugam@insofe.edu.in, INSOFE EDUCATION PVT. LTD.') and various navigation links.

<https://docs.microsoft.com/en-us/azure/data-factory/connector-azure-data-lake-storage?tabs=data-factory#copy-activity-properties>

User properties & Mapping

The screenshot shows the Microsoft Azure Data Factory pipeline editor interface. The top navigation bar includes 'Microsoft Azure' and 'Adminadmin'. The main title bar shows 'Data Factory' and 'Validate all' with a 'Publish all' button. The left sidebar lists various activities under 'pipeline1': Move & transform, Azure Data Explorer, Azure Function, Batch Service, Databricks, Data Lake Analytics, General, HDInsight, Iteration & conditionals, Machine Learning, and Power Query. The current activity is 'DelimitedText1'.

The main workspace displays the 'Sink' tab for the 'DelimitedText1' activity. The 'Sink dataset' is set to 'AzureSqlTable1'. The 'Write behavior' is set to 'Insert'. Other settings include 'Bulk insert table lock' (No), 'Table option' (None), and 'Pre-copy script' (empty). There are also fields for 'Write batch timeout', 'Write batch size', 'Max concurrent connections', and a checkbox for 'Disable performance metrics analytics'.

User properties & Mapping

The screenshot shows the Microsoft Azure Data Factory pipeline editor. The left sidebar lists activities under 'pipeline1': Move & transform, Azure Data Explorer, Azure Function, Batch Service, Databricks, Data Lake Analytics, General, HDInsight, Iteration & conditionals, Machine Learning, and Power Query. The main area displays a pipeline named 'DelimitedText1'. The 'Activities' tab is selected, showing validation status: Validate (green), Validate copy runtime (green), Debug (blue), and Add trigger (grey). The 'Mapping' tab is active, showing type conversion settings. The 'Source' and 'Type' columns map fields from a source to destination fields with their respective data types: Empid (String, int), fname (String, varchar), lname (String, varchar), age (String, int), and city (String, varchar). Buttons for Import schemas, Preview source, New mapping, Clear, Reset, and Delete are visible at the top of the mapping table.

Source	Type	Destination	Type
Empid	String	empid	int
fname	String	fname	varchar
lname	String	lname	varchar
age	String	age	int
city	String	city	varchar

User properties & Mapping

The screenshot shows the Microsoft Azure Data Factory interface. The top navigation bar includes 'Microsoft Azure' (Admin), 'Search' (with a magnifying glass icon), and various account and service icons. The right side shows the user's email (suresh.arumugam@insofe.edu.in) and the INSOFE EDUCATION PVT. LTD. logo.

The main area displays a pipeline named 'pipeline1' containing a single activity named 'DelimitedText1'. The pipeline status is shown as 'Validated' with a green checkmark. There are buttons for 'Validate all' (green checkmark), 'Publish all' (blue button with a yellow circle containing '1'), and other actions like 'Edit' and '...'. Below the pipeline name, there are tabs for 'Activities' (selected), 'Validate', 'Validate copy runtime', 'Debug', 'Add trigger', and '...', along with search and refresh icons.

The 'Settings' tab is selected, showing various configuration options:

- Data integration unit:** Set to 'Auto' with an 'Edit' link.
- Degree of copy parallelism:** An input field with a 'Edit' link containing a checked checkbox.
- Data consistency verification:** A checkbox.
- Fault tolerance:** A dropdown menu set to 'Skip incompatible rows'.
- Enable logging:** A checkbox.
- Enable staging:** A checkbox.

A note at the bottom of the Settings tab states: 'You will be charged # of used DIUs * copy duration * \$0.25/DIU-hour. Local currency and separate discounting may apply per subscription type. [Learn more](#)'.

User properties & Mapping

The screenshot shows the Microsoft Azure Data Factory pipeline editor interface. The top navigation bar includes 'Microsoft Azure' and 'Adminadmin'. The search bar contains 'Search'. On the right, there are icons for help, notifications, settings, and user profile, along with the email 'suresh.arumugam@insofe.edu.in' and 'INSOFÉ EDUCATION PVT. LTD.'

The left sidebar lists various activity types: Home, Pipeline (selected), DelimitedText1, Move & transform, Azure Data Explorer, Azure Function, Batch Service, Databricks, Data Lake Analytics, General, HDInsight, Iteration & conditionals, Machine Learning, and Power Query. A notification icon indicates 1 new item.

The main workspace shows a pipeline named 'pipeline1' with a single activity 'DelimitedText1'. The activity configuration pane has tabs for General, Source, Sink, Mapping, Settings, and User properties. The 'User properties' tab is currently selected. It features a 'New' button, a 'Delete' button, and an 'Auto generate' button. Below these are two rows for defining user properties:

Name	Value
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

User properties & Mapping

The screenshot shows the Microsoft Azure Data Factory pipeline editor. The top navigation bar includes 'Microsoft Azure' (Adminadmin), a search bar, and account information (suresh.arumugam@insofe.edu.in, INSOFE EDUCATION PVT. LTD.). The left sidebar lists activities: 'Move & transform', 'Azure Data Explorer', 'Azure Function', 'Batch Service', 'Databricks', 'Data Lake Analytics', 'General', 'HDInsight', 'Iteration & conditionals', 'Machine Learning', and 'Power Query'. The main workspace displays a pipeline named 'pipeline1' with a single activity named 'DelimitedText1'. The activity details pane shows a 'Copy data' activity with a red circle icon. Below it, the 'User properties' tab is selected, showing a table with one entry: Name 'Suresh' and Value 'CSV to SQL'. The bottom navigation bar includes 'New', 'Delete', and 'Auto generate' buttons.

Name	Value
Suresh	CSV to SQL

User properties & Mapping

Microsoft Azure | Adminadmin

Search

Validate all Publish all 1

pipeline1 DelimitedText1

Activities

Validate Debug Add trigger

Copy data

Copy data1

Move & transform

Azure Data Explorer

Azure Function

Batch Service

Databricks

Data Lake Analytics

General

HDInsight

Iteration & conditionals

Machine Learning

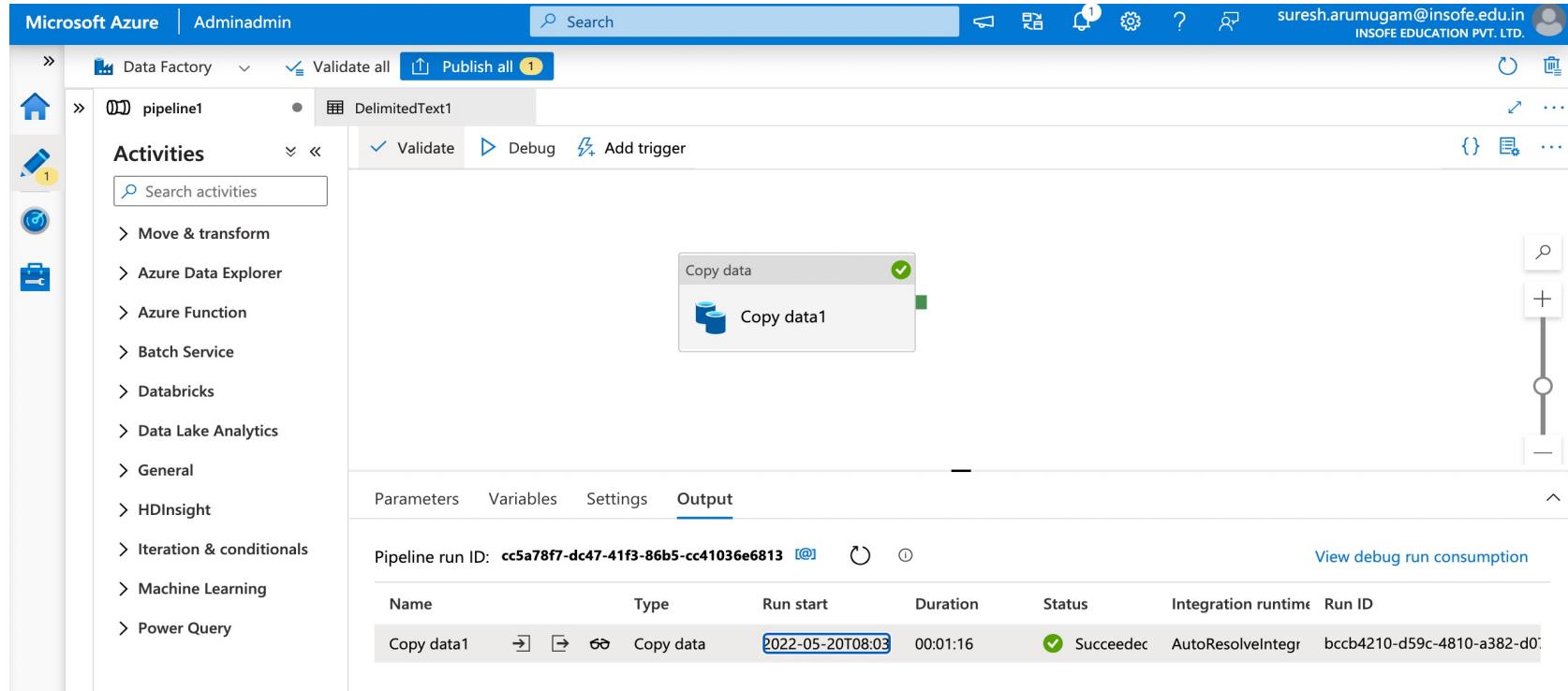
Power Query

Parameters Variables Settings Output

Pipeline run ID: cc5a78f7-dc47-41f3-86b5-cc41036e6813

View debug run consumption

Name	Type	Run start	Duration	Status	Integration runtime	Run ID
Copy data1	Copy data	2022-05-20T08:03	00:01:16	Succeeded	AutoResolveIntegr	bccb4210-d59c-4810-a382-d0



User properties & Mapping

The screenshot shows the Microsoft Azure Query editor (preview) interface. The top navigation bar includes 'Microsoft Azure', 'Upgrade', a search bar ('Search resources, services, and docs (G+/)'), and user information ('suresh.arumugam@insofe... INSOFE EDUCATION PVT. LTD. (...'). The main title is 'org (db1server1/org) | Query editor (preview)'.

The left sidebar contains links for 'Overview', 'Activity log', 'Tags', 'Diagnose and solve problems', 'Getting started', and 'Query editor (preview)' (which is selected). Other sections include 'Power Platform' (Power BI, Power Apps, Power Automate) and 'Settings' (Compute + storage, Connection strings, Properties).

The central area shows the database 'org (db1server1)' with a note: 'Showing limited object explorer here. For full capability please open SSDT.' Below this is the 'Query 1' editor window, which displays the query 'select * from emp'. The results section shows the following data:

empid	fname	lname	age	city
101	aaa	aaa	20	city1
102	bbb	bbb	30	city2
103	ccc	ccc	20	city3

A message at the bottom states 'Query succeeded | 3s'.

User properties & Mapping

Microsoft Azure | Admin/admin

All pipeline runs > pipeline1 - Activity runs

pipeline1

List Gantt

Refresh Update pipeline

This is a recent debug run. The local pipeline configuration is shown.

Activity runs

Pipeline run ID cc5a78f7-dc47-41f3-86b5-cc41036e6813

All status ▾

Showing 1 - 1 of 1 items

Status	Error	Log
Succeeded		

Parameters

Name	Value	Edit columns
Suresh	CSV to SQL	+ Add column

OK Cancel

AutoResolveIntegrationR bccb4210-d59c-4810-a3

The screenshot shows the Microsoft Azure Pipeline runs interface. On the left, there's a navigation bar with icons for Dashboards, Runs, Pipeline runs (which is selected), Trigger runs, Runtimes & sessions, Integration runtimes, Data flow debug, Notifications, and Alerts & metrics. The main area shows a pipeline named 'pipeline1' with a single activity run. The run is successful ('Succeeded'). A modal dialog box is open over the pipeline runs page, titled 'Parameters'. It contains a table with one row: 'Name' (Suresh) and 'Value' (CSV to SQL). There are buttons for 'OK' and 'Cancel' at the bottom of the dialog. The URL in the browser is 'AutoResolveIntegrationR' and the ID is 'bccb4210-d59c-4810-a3'.

Parameterization

The screenshot shows the Microsoft Azure Data Factory interface. On the left, the navigation menu includes options like Data Factory, Validate all, Publish all, Home, Linked services (selected), Integration runtimes, Microsoft Purview, Source control, Author, Triggers, Global parameters, Data flow libraries (preview), Security, Credentials, Customer managed key, and Managed private endpoints. The main area displays a list of 'Linked services' with three items: AzureBlobStorage1 (Azure Blob Storage), AzureDataLakeStorage1 (Azure Data Lake Storage), and AzureSqlDatabase1 (Azure SQL Database). To the right, a detailed view of the 'Edit linked service' for 'Azure SQL Database' is shown. It includes sections for 'Password' (selected), 'Azure Key Vault', 'Password *' (containing '*****'), 'Always encrypted' (unchecked), 'Additional connection properties' (New), 'Annotations' (New), and 'Parameters'. The 'Parameters' section shows a table with one row: 'Name' (dbName), 'Type' (String), and 'Default value' (Value). A 'Test connection' button is also present.

Parameterization

Microsoft Azure | Adminadmin

Data Factory Validate all Publish all

Connections

- Linked services
- Integration runtimes
- Microsoft Purview

Source control

- Git configuration
- ARM template

Author

- Triggers
- Global parameters
- Data flow libraries (preview)

Security

- Credentials
- Customer managed key
- Managed private endpoints

Linked services

Linked service defines the connection information to a data store

New

Filter by name Annotations : Any

Showing 1 - 3 of 3 items

Name	Type
AzureBlobStorage1	Azure Blob Storage
AzureDataLakeStorage1	Azure Data Lake Storage G
AzureSqlDatabase1	Azure SQL Database

Edit linked service

Azure SQL Database Learn more

Connect via integration runtime * ⓘ

- AutoResolveIntegrationRuntime (Managed Virtual Network)
- Interactive authoring enabled

Connection string Azure Key Vault

Account selection method ⓘ

- From Azure subscription
- Enter manually

Fully qualified domain name *

db1server1.database.windows.net

Database name *

Add dynamic content [Alt+Shift+D]

Managed private endpoint

Not available Create new

Authentication type *

SQL authentication

Apply Cancel Test connection

The screenshot shows the Microsoft Azure Data Factory interface. On the left, there's a sidebar with various navigation options like Data Factory, Connections, Source control, Author, Security, etc. The main area is titled 'Linked services' and shows a list of existing linked services: AzureBlobStorage1 (Azure Blob Storage), AzureDataLakeStorage1 (Azure Data Lake Storage G), and AzureSqlDatabase1 (Azure SQL Database). An 'Edit linked service' dialog is open for the 'AzureSqlDatabase1' entry. The dialog is titled 'Edit linked service' and shows the 'Azure SQL Database' provider selected. It includes sections for 'Connect via integration runtime', 'Account selection method', 'Fully qualified domain name', 'Database name', 'Managed private endpoint', and 'Authentication type'. The 'Database name' field is currently empty. At the bottom of the dialog are 'Apply' and 'Cancel' buttons, along with a 'Test connection' link.

Parameterization

The screenshot shows the Microsoft Azure Data Factory interface. The left sidebar menu includes options like Data Factory, Validate all, Publish all, Home, Linked services, Integration runtimes, Microsoft Purview, Source control, Git configuration, ARM template, Author, Triggers, Global parameters, Data flow libraries (preview), Security, Credentials, Customer managed key, and Managed private endpoints. The main area is titled "Linked services" and displays three items: AzureBlobStorage1 (Azure Blob Storage), AzureDataLakeStorage1 (Azure Data Lake Storage G), and AzureSqlDatabase1 (Azure SQL Database). On the right, a modal window titled "Add dynamic content" shows the expression "@linkedService().dbName" in a text input field. Below it is a "Parameters" section with a dropdown menu showing "db_name". At the bottom of the modal are "OK" and "Cancel" buttons.

Parameterization

The screenshot shows the Microsoft Azure Data Factory pipeline editor interface. The left sidebar displays 'Factory Resources' with sections for Pipelines, Datasets, Data flows, and Power Query. The main workspace shows a pipeline named 'pipeline1' with two activities: 'DelimitedText1' and 'AzureSqlTable1'. The 'Activities' pane on the right lists various activity types like Move & transform, Azure Data Explorer, Azure Function, etc. A 'Copy data' activity named 'Copy data1' is selected. Below it, the 'Parameters' tab is active, showing three parameters: 'tableName', 'dbName', and 'fileName', all defined as String type with empty default values.

Name	Type	Default value
tableName	String	Value
dbName	String	Value
fileName	String	Value

Parameterization

The screenshot shows the Microsoft Azure Data Factory pipeline editor interface. The top navigation bar includes 'Microsoft Azure' (Admin), 'Search' (placeholder: Search), and various account and service icons. The user is logged in as 'suresh.arumugam@insofe.edu.in' from 'INSOFE EDUCATION PVT. LTD.'

The main workspace displays a pipeline named 'pipeline1'. It contains two datasets: 'DelimitedText1' and 'AzureSqlTable1'. A 'Copy data' activity is connected between them. The activity has three inputs: a green checkmark icon, a blue trash can icon, and a yellow plus sign icon. The 'Source' tab is selected for the activity.

The 'Source dataset' dropdown is set to 'DelimitedText1'. Below it, the 'Dataset properties' section shows a single entry: 'fileName' with a value of 'value'. The 'Type' column indicates this is a 'string' type.

The left sidebar lists various activity types under 'Activities': Move & transform, Azure Data Explorer, Azure Function, Batch Service, Databricks, Data Lake Analytics, General, HDInsight, Iteration & conditionals, Machine Learning, and Power Query. There are also three notifications indicated by a red circle with the number '3'.

Parameterization

The screenshot shows the Microsoft Azure Data Factory pipeline editor. On the left, the navigation pane lists various activities: Move & transform, Azure Data Explorer, Azure Function, Batch Service, Databricks, Data Lake Analytics, General, HDInsight, Iteration & conditionals, Machine Learning, and Power Query. The main workspace displays a pipeline named 'pipeline1' with two stages: 'DelimitedText1' and 'AzureSqlTable1'. A 'Copy data' activity is selected, with its configuration pane visible. In the 'Source' tab, the 'Source dataset' is set to 'DelimitedText1'. Under 'Dataset properties', the 'Name' field is empty, and the 'fileName' field contains the expression '@pipeline().parameters.fileName'. Below this, the 'File path type' is set to 'File path in dataset'. To the right, an 'Add dynamic content' dialog is open, showing the expression '@pipeline().parameters.fileName' in the main text area. Below it is a 'Clear contents' button. A section titled 'Add dynamic content above using any combination of expressions, functions and system variables.' includes a search bar 'Filter system variables and functions...' and three expandable sections: 'System variables', 'Functions', and 'Parameters'. The 'Parameters' section shows the 'fileName' entry highlighted with a blue border. At the bottom of the dialog are 'OK' and 'Cancel' buttons.

Parameterization

The screenshot shows the Microsoft Azure Data Factory pipeline editor interface. The top navigation bar includes 'Microsoft Azure' and 'Adminadmin'. The main workspace displays a pipeline named 'pipeline1' with two stages: 'DelimitedText1' and 'AzureSqlTable1'. A 'Copy data' activity is selected, with its configuration pane open. The pane has tabs for 'General', 'Source', 'Sink', 'Mapping', 'Settings', and 'User properties'. The 'Sink' tab is active, showing the 'Sink dataset' dropdown set to 'AzureSqlTable1'. Below it, the 'Dataset properties' section lists two parameters: 'tableName' with value '@pipeline0.parameters.tableName' and 'dbName' with value '@pipeline0.parameters.dbName'. The 'Write behavior' section shows 'Insert' selected. On the left sidebar, under the 'Activities' category, 'Move & transform' is expanded, showing 'Copy data' as one of the options.

Parameterization

Microsoft Azure | Adminadmin

Search

Publish all 3

Data Factory pipeline1 DelimitedText1 AzureSqlTable1

Activities Search activities

> Move & transform

> Azure Data Explorer

> Azure Function

> Batch Service

> Databricks

> Data Lake Analytics

> General

> HDInsight

> Iteration & conditionals

> Machine Learning

> Power Query

Validating... Validate copy runtime Debug

Copy data Copy data1

General Source Sink Mapping Settings

Name * Copy data1

Description

Timeout 7.00:00:00

Retry 0

OK Cancel

Pipeline run

Parameters

Name	Type	Value
tableName	string	emp
dbName	string	org
fileName	string	emp.csv

Exercise

How to use upsert option while using copy activity data ? (use source as CSV file and sink as SQL)

UPSERT

Microsoft Azure | Adminadmin

Search

Data Factory Validate all Publish all 3

pipeline1 pipeline4

Activities copy

Move & transform Copy data

Copy data

Validate Validate copy runtime Debug Add trigger

Copy data

Copy data1

General Source Sink Mapping Settings User properties

Sink dataset * AzureSqlTable2

Open New Learn more

Write behavior Insert Upsert Stored procedure

Use TempDB

Key columns New Delete Refresh

ANY empid

Add dynamic content [Alt+Shift+D]

Properties General Related

Name * pipeline4

Description

Annotations New

Properties

General Related

Name * pipeline4

Description

Annotations

New

UPSERT

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

Home > Storage accounts > secondinsofe > csv >

CSV Container

Search (Cmd+/) Upload Change access level ...

Authentication method: Access key (Switch to Azure AD User Account)
Location: csv / output1

Search blobs by prefix (case-...) Show deleted blobs

Add filter

Name	...
[..]	...
Azure SQL.pdf	...
claim pdf.pdf	...
emp.csv	...
esakkiammal cheque.pdf	...
pima-indians-diabetes.csv	...
salaryv.csv	...

output1/emp.csv ...

Save Discard Download Refresh Delete

Overview Versions Snapshots **Edit** Generate SAS

```

1 Empid, fname, lname, age, city
2 101, aaa, aaa, 20, city1
3 102, bbb, bbb, 30, city2
4 103, aaa, aaa, 20, city3
5 104, bbb, bbb, 30, city4
6 105, aaa, aaa, 20, city5
7 106, bbb, bbb, 30, city6
8 107, aaa, aaa, 20, city7
9 108, bbb, bbb, 30, city8
10 109, aaa, aaa, 20, city9
11 110, bbb, bbb, 30, city10
12 111, aaa, aaa, 20, city11

```

Csv Preview

UPSERT

Microsoft Azure | Adminadmin

Search Publish all 3

Activities pipeline1 pipeline4

copy Validate Validate copy runtime Debug Add trigger

Move & transform Copy data

Copy data

Copy data1

Properties General Related

Name * pipeline4

Description

Annotations + New

General Source Sink Mapping Settings User properties

Sink dataset * AzureSqlTable2

Open New Learn more

Write behavior Insert Upsert Stored procedure

Use TempDB

This screenshot shows the Microsoft Azure Data Factory pipeline editor. A 'Copy data' activity named 'Copy data1' is selected. The 'Sink' tab is active, showing 'AzureSqlTable2' as the sink dataset. The 'Write behavior' section has 'Upinsert' selected. The 'Properties' panel shows the pipeline name as 'pipeline4'. The left sidebar lists other pipelines like 'pipeline1' and 'pipeline4', and the 'Activities' section shows a search for 'copy'.

UPSERT

Microsoft Azure | Adminadmin

Search

Data Factory Validate all Publish all 3

pipeline1 pipeline4

Activities copy Validate Debug Add trigger

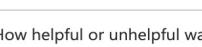
Error details

Error code 2200 Troubleshooting guide

Failure type User configuration issue

Details Failure happened on 'Sink' side.
ErrorCode=UserErrorInvalidColumnMappingColumnNotFound,
Type=Microsoft.DataTransfer.Common.Shared.HybridDeliveryException,Message=Column name 'empid' cannot
be found in either source data or column
mapping.,Source=Microsoft.DataTransfer.ServiceLibrary,'

Source Pipeline pipeline4

How helpful or unhelpful was this error message? 

Properties General Related

Name * pipeline4

Description

Annotations + New

View debug run consumption

Run start Duration

2022-05-23T07:28:35.8513 00:01:25

UPSERT

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

Home > Storage accounts > secondinsofe > csv >

CSV Container

Search (Cmd+/) Upload Change access level ...

Overview

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

Location: csv / output1

Search blobs by prefix (case-...) Show deleted blobs

Add filter

Name
[..]
Azure SQL.pdf
claim pdf.pdf
emp.csv
esakkiammal cheque.pdf
pirma-indians-diabetes.csv
salary.csv

output1/emp.csv

Save Discard Download Refresh Delete

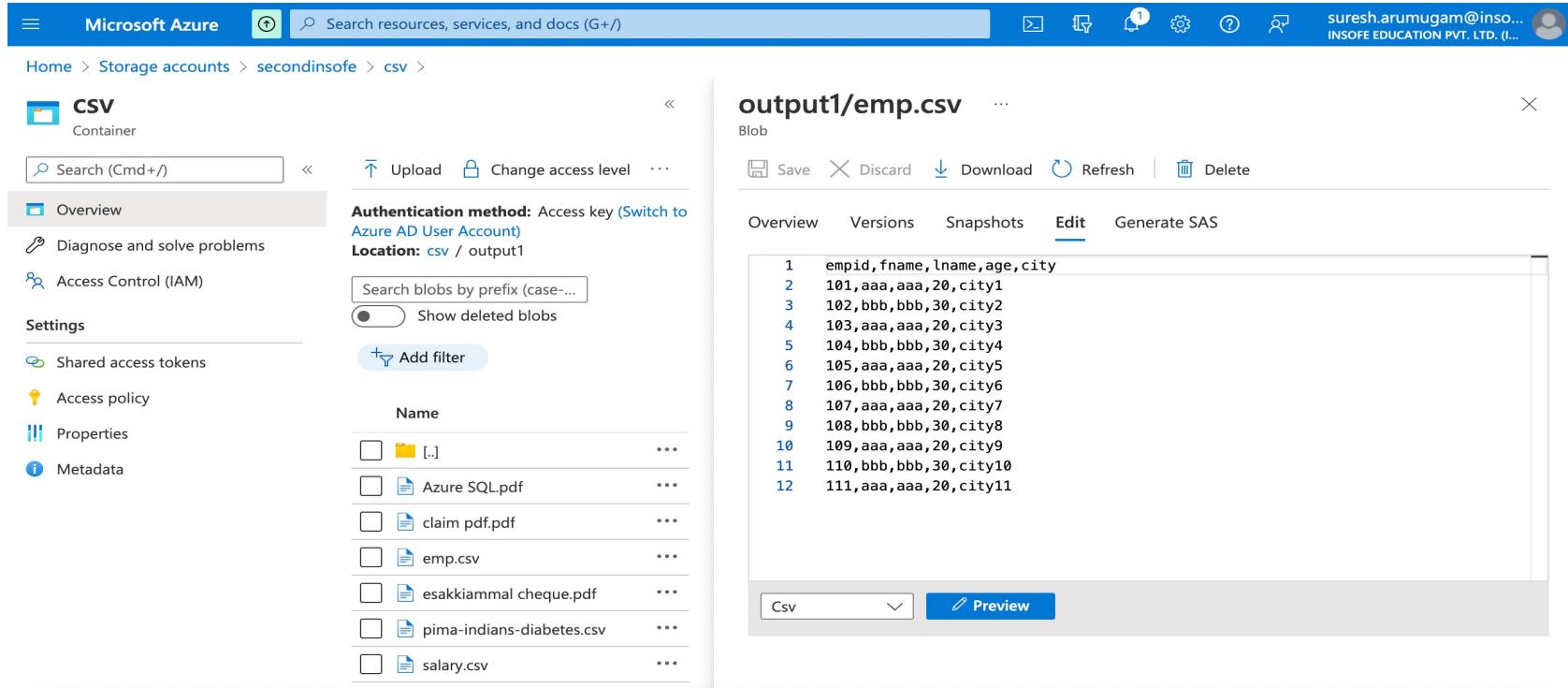
Overview Versions Snapshots **Edit** Generate SAS

```

1 empid,fname, lname, age, city
2 101,aaa,aaa,20,city1
3 102,bbb,bbb,30,city2
4 103,aaa,aaa,20,city3
5 104,bbb,bbb,30,city4
6 105,aaa,aaa,20,city5
7 106,bbb,bbb,30,city6
8 107,aaa,aaa,20,city7
9 108,bbb,bbb,30,city8
10 109,aaa,aaa,20,city9
11 110,bbb,bbb,30,city10
12 111,aaa,aaa,20,city11

```

Csv Preview



UPSERT

Details

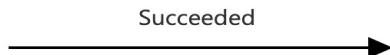


Learn more on copy performance details from here.

Activity run id: 50229ea7-4b11-4111-9a3f-edb7d137276b



Azure Blob Storage
Region: East US



Azure SQL Database
Region: East US

Data read: ⓘ 270 bytes
Files read: ⓘ 1
Rows read: 11
Peak connections: ⓘ 1

Interim data written: ⓘ 334 bytes
Interim rows written: ⓘ 11
Data written: ⓘ 334 bytes
Rows written: ⓘ 11
Peak connections: ⓘ 2

Copy duration 00:01:57
Throughput: ⓘ 10.24 bytes/s

✓ Azure Blob Storage → Azure SQL Database

Start time May 23, 2022, 1:03:19 pm
Used DIUs ⓘ 4

UPSERT

The screenshot shows the Microsoft Azure portal interface for an Azure SQL database named 'org (db1server1/org)'. The left sidebar includes links for Overview, Activity log, Tags, Diagnose and solve problems, Getting started, and Query editor (preview), which is currently selected. The main area displays the database structure under 'org (db1server1/org)' and a query editor window titled 'Query 1' containing the following SQL code:

```
1 select * from [dbo].[emp]
```

The results pane shows the following data:

empid	fname	lname	age	city
101	aaa	aaa	20	city1
102	bbb	bbb	30	city2

UPSERT

Microsoft Azure (1) Search resources, services, and docs (G+)

Home > Storage accounts > secondinsofe > csv >

CSV Container

Search (Cmd +/)

Upload Change access level ...

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

Location: csv / output1

Search blobs by prefix (case-insensitive)

Show deleted blobs

Add filter

Name

- [] ..
- [] Azure SQL.pdf
- [] claim pdf.pdf
- [] emp.csv
- [] esakkiammal cheque.pdf
- [] pima-indians-diabetes.csv
- [] salary.csv

output1/emp.csv ...

Blob

Save Discard Download Refresh Delete

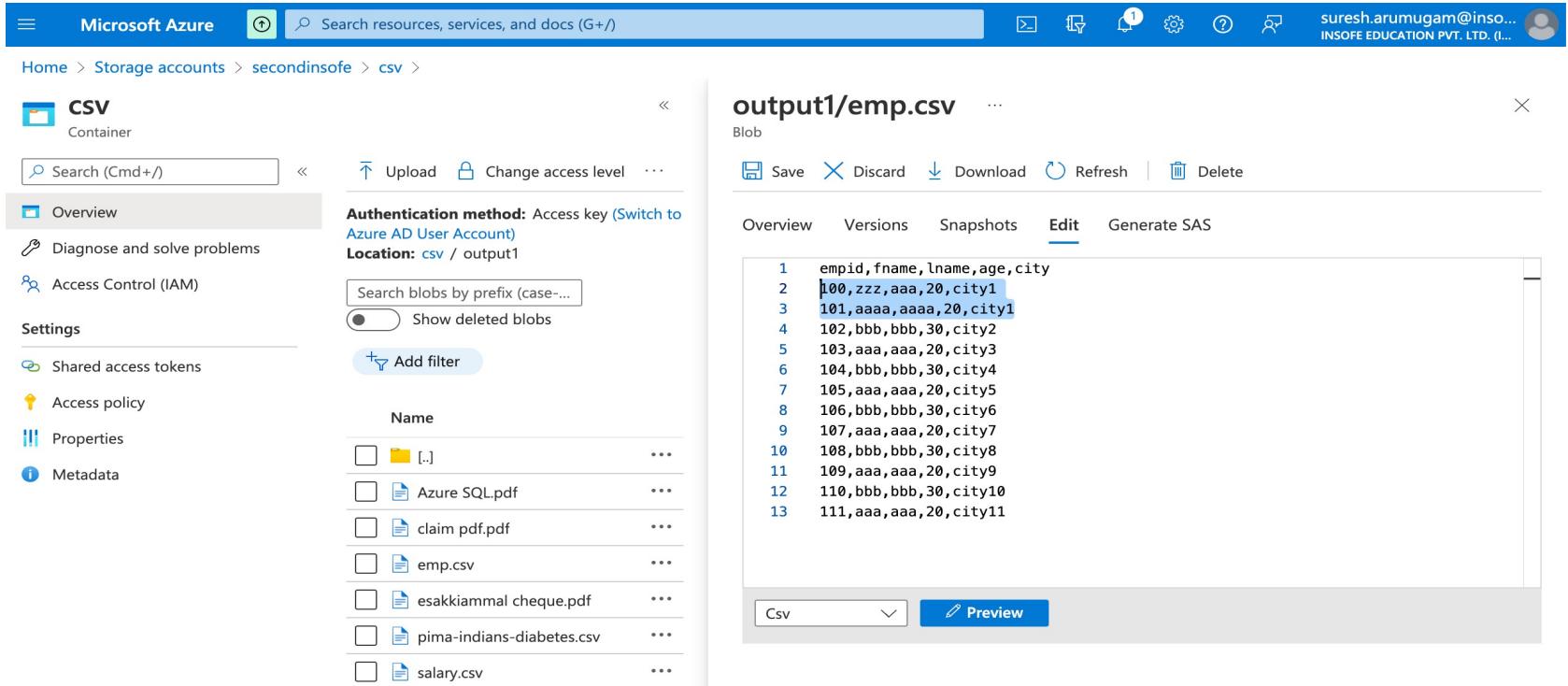
Overview Versions Snapshots Edit Generate SAS

```

1 empid,fname, lname,age,city
2 100,zzz,aaa,20,city1
3 101,aaaa,aaa,20,city1
4 102,bbb,bbb,30,city2
5 103,aaa,aaa,20,city3
6 104,bbb,bbb,30,city4
7 105,aaa,aaa,20,city5
8 106,bbb,bbb,30,city6
9 107,aaa,aaa,20,city7
10 108,bbb,bbb,30,city8
11 109,aaa,aaa,20,city9
12 110,bbb,bbb,30,city10
13 111,aaa,aaa,20,city11

```

Csv Preview



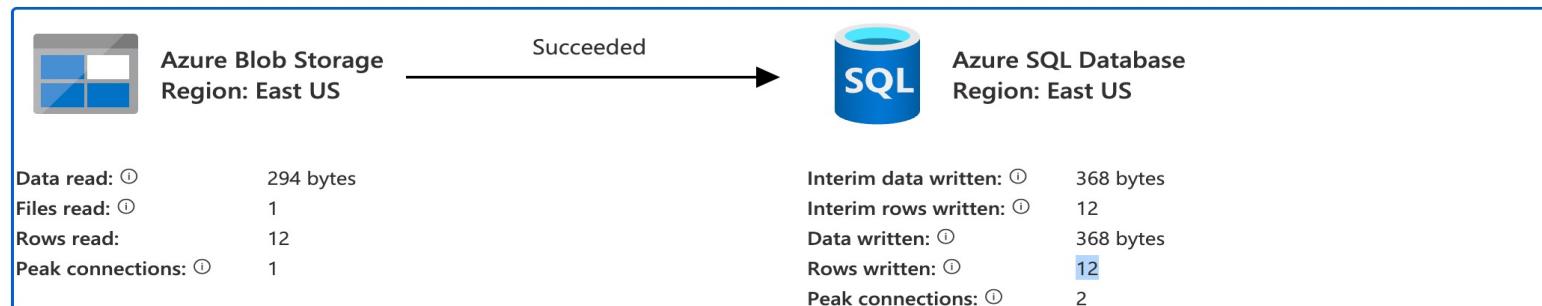
UPSERT

Details



Learn more on copy performance details from here.

Activity run id: fa347bc0-97ad-4f4d-8521-3122a395fb3b



Copy duration 00:01:17

Throughput: ① 10.24 bytes/s

✓ Azure Blob Storage → Azure SQL Database

Start time May 23, 2022, 1:10:06 pm

Used DIUs ① 4

UPSERT

The screenshot shows the Microsoft Azure portal interface for an Azure SQL database named 'org (db1server1/org)'. The left sidebar includes links for Overview, Activity log, Tags, Diagnose and solve problems, Getting started, and Query editor (preview). The 'Query editor (preview)' link is currently selected. The main area displays a query editor titled 'Query 1' containing the following SQL code:

```
1 select * from [dbo].[emp] order by empid
```

The results pane below shows the output of the query:

empid	fname	lname	age	city
100	zzz	aaa	20	city1
101	aaaa	aaaa	20	city1

UPSERT

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

Home > Storage accounts > secondinsofe > csv >

CSV Container

Search (Cmd+/) Upload Change access level

Authentication method: Access key (Switch to Azure AD User Account)
Location: csv / output1

Search blobs by prefix (case-...) Show deleted blobs

Add filter

Name
[..]
Azure SQL.pdf
claim pdf.pdf
emp.csv
esakkiammal cheque.pdf
pima-indians-diabetes.csv
salary.csv

output1/emp.csv

Save Discard Download Refresh Delete

Overview Versions Snapshots **Edit** Generate SAS

```

1 empid, fname, lname, age, city
2 100, zzz, aaa, 20, city1
3 100, zzz, aaa, 20, city1
4 101, aaaa, aaaa, 20, city1
5 102, bbb, bbb, 30, city2
6 103, aaa, aaa, 20, city3
7 104, bbb, bbb, 30, city4
8 105, aaa, aaa, 20, city5
9 106, bbb, bbb, 30, city6
10 107, aaa, aaa, 20, city7
11 108, bbb, bbb, 30, city8
12 109, aaa, aaa, 20, city9
13 110, bbb, bbb, 30, city10
14 111, aaa, aaa, 20, city11

```

Csv Preview

UPSERT

The screenshot shows the Microsoft Azure portal interface for an Azure SQL database named 'org (db1server1/org)'. The left sidebar includes links for Overview, Activity log, Tags, Diagnose and solve problems, Getting started, and Query editor (preview). The main area displays the database object explorer with 'Tables' expanded, showing 'dbo.emp' selected. The 'Query 1' editor contains the following SQL code:

```
1 select * from [dbo].[emp] order by empid
2
```

The 'Results' tab shows the output of the query:

empid	name	name	age	city
100	zzz	aaa	20	city1
101	aaaa	aaaa	20	city1
101	aaaa	aaaa	20	city1
101	aaaa	aaaa	20	city1

DELETE

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

Home > Storage accounts > secondinsofe >

CSV Container

Upload Change access level Refresh Delete Change tier Acquire lease Break lease View snapshots ...

Search (Cmd+/) Overview Diagnose and solve problems Access Control (IAM)

Authentication method: Access key ([Switch to Azure AD User Account](#))
Location: csv

Search blobs by prefix (case-sensitive) Show deleted blobs

Add filter

Name	Modified	Access tier	Archive status	Blob type	Size
Azure SQL.pdf	5/20/2022, 3:06:35 PM	Hot (Inferred)		Block blob	3.52
claim pdf.pdf	5/20/2022, 3:06:24 PM	Hot (Inferred)		Block blob	163.
emp.csv	5/20/2022, 3:06:23 PM	Hot (Inferred)		Block blob	273
Esai.jpg	5/20/2022, 3:06:24 PM	Hot (Inferred)		Block blob	119.
esakkiammal cheque.pdf	5/20/2022, 3:06:24 PM	Hot (Inferred)		Block blob	355.
free-apple-icon-png-13.png	5/20/2022, 3:06:24 PM	Hot (Inferred)		Block blob	152.
pima-indians-diabetes.csv	5/15/2022, 10:00:01 ...	Hot (Inferred)		Block blob	23.4
salary.csv	5/20/2022, 3:06:23 PM	Hot (Inferred)		Block blob	243

DELETE

Microsoft Azure | Adminadmin

Search

Data Factory Validate all Publish all (4)

pipeline1 AzureSqlTable1 pipeline2

Activities Validate Debug Add trigger

4

Databricks Data Lake Analytics General Append variable Delete Execute Pipeline Execute SSIS package Fail Get Metadata Lookup Stored procedure

Properties General Related

Name * pipeline2

Description

Annotations + New

Delete

Delete1

General Source Logging settings User properties

Open New Learn more

File path type File path in dataset Wildcard file path Prefix List of files

Wildcard file name *.png

Filter by last modified Start time (UTC) End time (UTC)

Recursively

Max concurrent connections

Validate all Publish all (4)

pipeline1 AzureSqlTable1 pipeline2

Activities Validate Debug Add trigger

4

Databricks Data Lake Analytics General Append variable Delete Execute Pipeline Execute SSIS package Fail Get Metadata Lookup Stored procedure

Properties General Related

Name * pipeline2

Description

Annotations + New

Delete

Delete1

General Source Logging settings User properties

Open New Learn more

File path type File path in dataset Wildcard file path Prefix List of files

Wildcard file name *.png

Filter by last modified Start time (UTC) End time (UTC)

Recursively

Max concurrent connections

DELETE

Microsoft Azure | Adminadmin

Search

Data Factory Validate all Publish all 4

pipeline1 AzureSqlTable1 pipeline2

Activities Validate Debug Add trigger

4 Databricks Data Lake Analytics General Append variable Delete Execute Pipeline Execute SSIS package Fail Get Metadata Lookup Stored procedure

Delete Delete1

General Source Logging settings User properties

Enable logging

Logging account linked service * AzureBlobStorage2

Test connection Edit New

Integration runtime * AutoResolveIntegrationRuntime (Ma.) Edit Interactive authoring enabled

Folder path CSV Browse

Properties

General Related

Name * pipeline2

Description

Annotations

New

Properties

General Related

Name * pipeline2

Description

Annotations

New

DELETE

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

Home > Storage accounts > secondinsofe >

CSV ... Container

Search (Cmd+/) Upload Change access level Refresh Delete Change tier Acquire lease Break lease View snapshots ...

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

Location: csv

Search blobs by prefix (case-sensitive) Show deleted blobs

Add filter

Name	Modified	Access tier	Archive status	Blob type	Size
92326d1b-4a81-4ec8-bff0-c84b8f736345	5/20/2022, 3:06:35 PM	Hot (Inferred)		Block blob	3.52
9d0527f8-5e98-42ed-9e20-776634bfbd22	5/20/2022, 3:06:24 PM	Hot (Inferred)		Block blob	163.
Azure SQL.pdf	5/20/2022, 3:06:23 PM	Hot (Inferred)		Block blob	273
claim pdf.pdf	5/20/2022, 3:06:23 PM	Hot (Inferred)		Block blob	119.
emp.csv	5/20/2022, 3:06:23 PM	Hot (Inferred)		Block blob	355.
Esai.jpg	5/20/2022, 3:06:24 PM	Hot (Inferred)		Block blob	23.4
esakkiammal cheque.pdf	5/20/2022, 3:06:24 PM	Hot (Inferred)		Block blob	243
pima-indians-diabetes.csv	5/15/2022, 10:00:01 ...	Hot (Inferred)		Block blob	
salary.csv	5/20/2022, 3:06:23 PM	Hot (Inferred)		Block blob	

DELETE

The screenshot shows the Microsoft Azure Storage account overview for the 'CSV' container. The left sidebar lists various settings like Overview, Diagnose and solve problems, Access Control (IAM), Shared access tokens, Access policy, Properties, and Metadata. The main area displays a blob named '9d0527f8-5e98-42ed-9e20-776634bfb22/3b9276cc-3ea3-45d7-ba6a-bb...'. The blob's properties show an Authentication method of 'Access key' and a Location of 'csv / 9d0527f8-5e98-42ed-9e20-776634bfb22'. A preview of the blob's contents is shown as a CSV file:

Name	Category	Status	Error
free-apple-icon-png-13.png	File	Deleted	

At the bottom, there are 'Csv' and 'Preview' buttons.

DELETE

Microsoft Azure | Adminadmin

Search

Validate all Publish all 4

pipeline1 AzureSqlTable1 pipeline2

Activities Validate Debug Add trigger

Delete Delete1

Properties General Related

Name * pipeline2

Description

Annotations + New

General Source Logging settings User properties

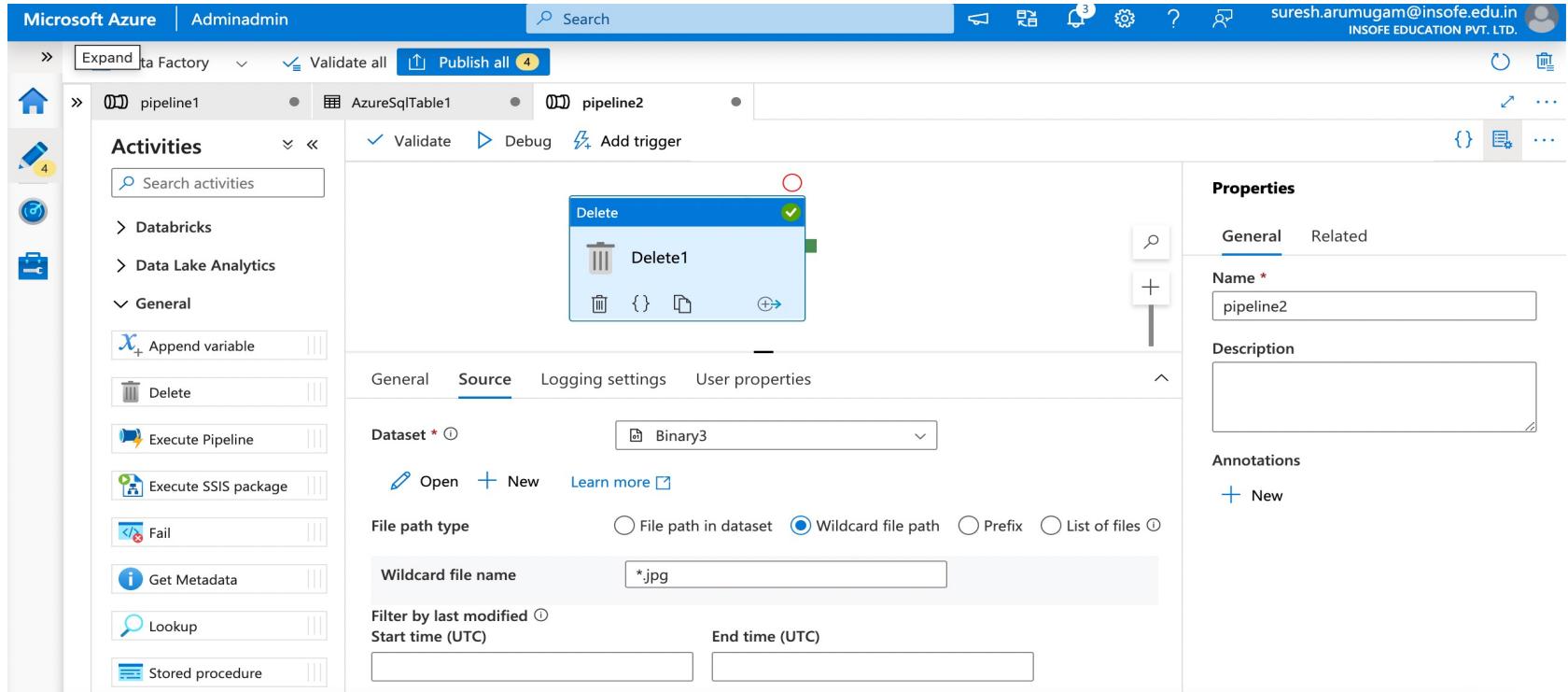
Dataset * Binary3

Open New Learn more

File path type File path in dataset Wildcard file path Prefix List of files

Wildcard file name *.jpg

Filter by last modified Start time (UTC) End time (UTC)



DELETE

The screenshot shows the Microsoft Azure Storage account interface. On the left, the 'CSV' container is selected under 'Container'. The 'Edit' tab is active in the blob details view on the right. A single row in the blob table is highlighted, showing the file 'Esai.jpg' with status 'Deleted'. The table has columns: Name, Category, Status, and Error.

Name	Category	Status	Error
Esai.jpg	File	Deleted	

CSV

Search resources, services, and docs (G+/)

Microsoft Azure

Home > Storage accounts > secondinsofe > csv >

CSV Container

Search (Cmd+ /)

Upload Change access level ...

Overview

Diagnose and solve problems

Access Control (IAM)

Settings

Shared access tokens

Access policy

Properties

Metadata

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

Location: csv / 174e2abb-aabf-4cdf-93f1-f0a2f3efd972/bf238fd1-d...

Show deleted blobs

Add filter

Name

[..]

bf238fd1-dd92-427f-b636-f1c...

Csv Preview

1 Name,Category,Status,Error
2 Esai.jpg,File,Deleted,
3

Lookup & Copy Multiple Table

Microsoft Azure | Adminadmin

Search Validate all Publish all 1

pipeline1 pipeline4 pipeline5 AzureSqlTable2

Activities look General

Validate Debug Add trigger

Properties

General Related

Name * pipeline5

Description

Annotations + New

Lookup

Lookup1

General Settings User properties

Source dataset * AzureSqlTable2

Open New Preview data Learn more

First row only

Use query Table Query Stored procedure

Query timeout (minutes) 120

The screenshot displays the Microsoft Azure Data Factory interface. A pipeline named 'pipeline5' is currently selected. The pipeline contains a single activity, 'Lookup1', which is configured to look up data from the 'AzureSqlTable2' dataset. The 'Settings' tab is active, showing various configuration options such as 'First row only' (checked), 'Use query' (set to 'Table'), and a 'Query timeout (minutes)' of 120. The 'Properties' panel on the right provides details about the pipeline, including its name ('pipeline5') and a description field.

Lookup & Copy Multiple Table

Microsoft Azure | Adminadmin

Search

Data Factory Validate all Publish all 1

pipeline1 pipeline4 pipeline5 AzureSqlTable2

Azure SQL Database AzureSqlTable2

Connection Schema Parameters

Linked service * AzureSqlDatabase2 Test connection Edit New Learn more

Integration runtime * AutoResolveIntegrationRuntime (Ma.) Edit
Interactive authoring enabled

Table dbo.emp Refresh Preview data Edit

This screenshot shows the Microsoft Azure Data Factory interface. The top navigation bar includes 'Microsoft Azure', the user 'Adminadmin', a search bar, and various icons for account management. Below the navigation is a toolbar with buttons for 'Validate all', 'Publish all' (with a count of 1), and other actions. A sidebar on the left contains icons for Home, Pipeline, Dataset, and Integration Runtime. The main workspace displays a pipeline step named 'AzureSqlTable2' which is connected to an 'Azure SQL Database' source. The 'AzureSqlTable2' step is currently selected. The configuration pane at the bottom shows settings for 'Connection', 'Schema', and 'Parameters'. Under 'Connection', 'Linked service' is set to 'AzureSqlDatabase2' with a dropdown arrow, and there are buttons for 'Test connection', 'Edit', 'New', and 'Learn more'. Under 'Integration runtime', 'AutoResolveIntegrationRuntime (Ma.)' is selected with a checked checkbox, and 'Interactive authoring enabled' is also checked. Under 'Table', the table 'dbo.emp' is selected with a dropdown arrow, and there are buttons for 'Refresh', 'Preview data', and 'Edit'.

Lookup & Copy Multiple Table

The screenshot shows the Microsoft Azure Data Factory pipeline editor interface. The top navigation bar includes 'Microsoft Azure' and 'Adminadmin'. The main workspace displays a pipeline named 'pipeline5' (selected), which contains a single 'Lookup' activity named 'Lookup1'. The 'Properties' panel on the right shows the pipeline's name as 'pipeline5' and its description as empty. The 'Settings' tab is selected for the 'Lookup1' activity, showing the following configuration:

- First row only:** Checked.
- Use query:** Selected 'Query' option.
- Query:** The SQL query is: `SELECT * FROM INFORMATION_SCHEMA.TABLES WHERE TABLE_TYPE = 'BASE TABLE'`.

Lookup & Copy Multiple Table

Microsoft Azure | Adminadmin

Search

Data Factory Validate all Publish all 1

pipeline1 pipeline4 pipeline5 AzureSqlTable2

Activities Validate Debug Add trigger

look

General

Lookup

Output

Copy to clipboard

```
{ "firstRow": { "TABLE_CATALOG": "org", "TABLE_SCHEMA": "dbo", "TABLE_NAME": "emp", "TABLE_TYPE": "BASE TABLE" }, "effectiveIntegrationRuntime": "AutoResolveIntegrationRuntime (South India)", "billingReference": { "activityType": "PipelineActivity", "billableDuration": [ ] } }
```

Properties

General Related

Name * pipeline5

Description

Annotations

+ New

View debug run consumption

Run start	Duration
2022-05-23T08:18:19.815Z	00:00:07

The screenshot shows the Microsoft Azure Data Factory interface. A pipeline named 'pipeline5' is selected. On the left, under 'Activities', a 'Lookup' activity is listed. The 'Output' pane is open, displaying the results of the lookup. It includes a JSON snippet showing the first row of the 'emp' table from the 'dbo' schema in the 'org' catalog. The 'Properties' pane on the right shows the pipeline's name as 'pipeline5'. The pipeline has a duration of 00:00:07.

Lookup & Copy Multiple Table

The screenshot shows the Microsoft Azure Data Factory pipeline editor interface. The top navigation bar includes 'Microsoft Azure' and 'Adminadmin'. The main workspace displays a pipeline named 'pipeline5' with an activity named 'Lookup1' selected. The 'Activities' pane on the left shows a search result for 'Lookup'. The 'Properties' pane on the right shows the 'General' tab for 'Lookup1' with the name set to 'pipeline5'. The 'Settings' tab is active, showing options for 'First row only' (unchecked), 'Use query' (radio button selected for 'Query'), and a 'Query' text area containing the SQL script:

```
SELECT * FROM INFORMATION_SCHEMA.TABLES  
WHERE TABLE_TYPE = 'BASE TABLE'
```

Lookup & Copy Multiple Table

Output



```
Copy to clipboard
{
  "count": 2,
  "value": [
    {
      "TABLE_CATALOG": "org",
      "TABLE_SCHEMA": "dbo",
      "TABLE_NAME": "emp",
      "TABLE_TYPE": "BASE TABLE"
    },
    {
      "TABLE_CATALOG": "org",
      "TABLE_SCHEMA": "dbo",
      "TABLE_NAME": "salary",
      "TABLE_TYPE": "BASE TABLE"
    }
  ],
  "effectiveIntegrationRuntime": "AutoResolveIntegrationRuntime (South India)",
  "billingReference": {
    "activityType": "PipelineActivity",
    "billableDuration": [
      {
        "meterType": "ManagedVNetIR",
        "duration": 0.01666666666666666,
        "unit": "DIUHours"
      }
    ]
  },
  "durationInQueue": {
    "integrationRuntimeQueue": 1
  }
}
```

Lookup & Copy Multiple Table

Microsoft Azure | Adminadmin

Search

Validate all Publish all 1

Activities

pipeline1 pipeline4 pipeline5 AzureSqlTable2

Validate Debug Add trigger

Properties

General Related

Name * pipeline5

Description

Annotations

+

Lookup

Lookup1

General Settings User properties

Source dataset * AzureSqlTable2

Open New Preview data Learn more

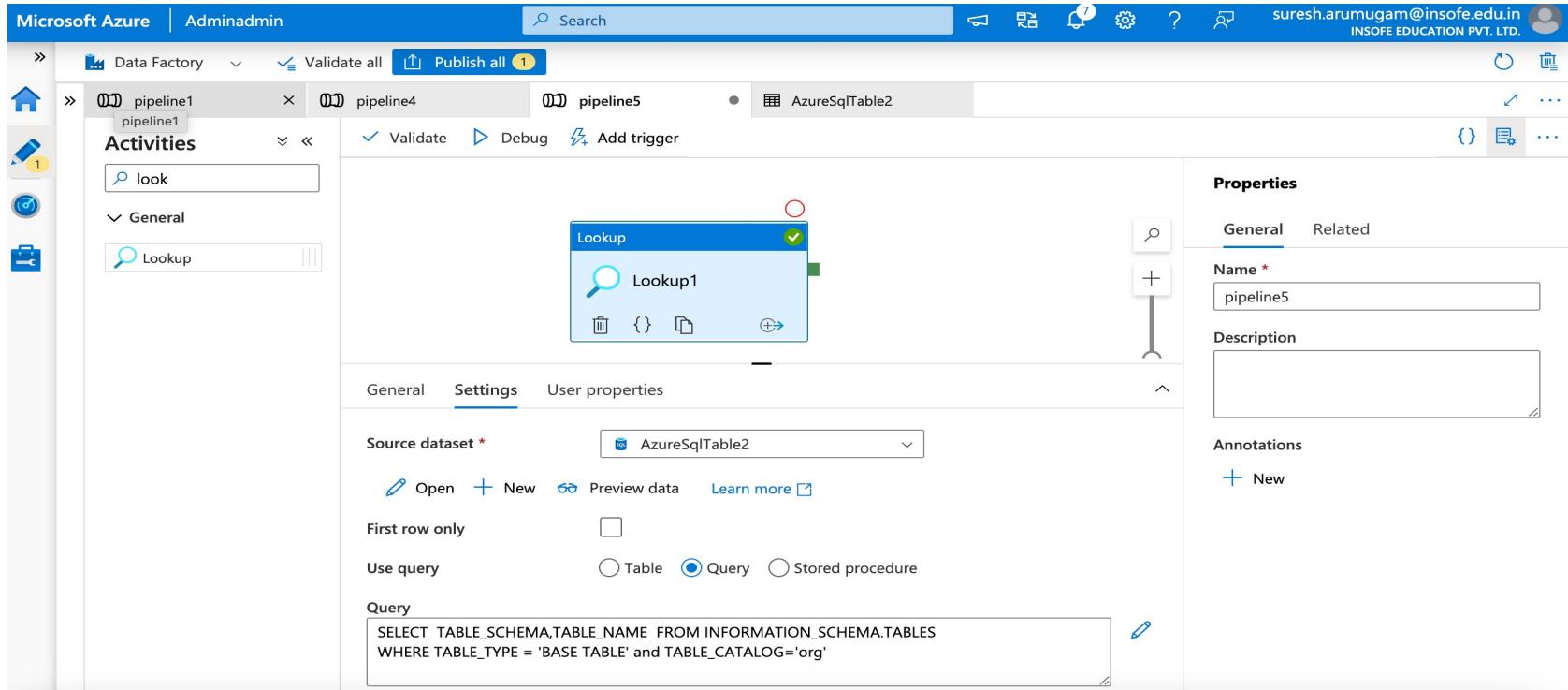
First row only

Use query

Table Query Stored procedure

Query

```
SELECT TABLE_SCHEMA, TABLE_NAME FROM INFORMATION_SCHEMA.TABLES  
WHERE TABLE_TYPE = 'BASE TABLE' and TABLE_CATALOG='org'
```



Lookup & Copy Multiple Table

The screenshot shows the Microsoft Azure Data Factory interface. The top navigation bar includes 'Microsoft Azure' and 'Adminadmin'. The main area displays a list of pipelines: 'pipeline1', 'pipeline4', 'pipeline5' (selected), and 'AzureSqlTable2'. A search bar and various navigation icons are at the top right.

The 'Activities' section on the left has a search bar with 'look' typed in. Below it, under 'General', there is a 'Lookup' activity listed.

A modal window titled 'Output' is open, showing the results of a previous run. It contains a JSON object:

```
{
  "count": 2,
  "value": [
    {
      "TABLE_SCHEMA": "dbo",
      "TABLE_NAME": "emp"
    },
    {
      "TABLE_SCHEMA": "dbo",
      "TABLE_NAME": "salary"
    }
  ]
}
```

The 'Properties' panel on the right shows the pipeline's configuration:

- General** tab selected:
 - Name ***: pipeline5
 - Description**: (empty)
- Related** tab (not selected)

At the bottom, a table provides details of the last run:

Run start	Duration
2022-05-23T08:36:50.3760	00:00:08

Lookup & Copy Multiple Table

Microsoft Azure | Adminadmin

Search Publish all 1

pipeline1 pipeline4 pipeline5 AzureSqlTable2

Activities Validate Debug Add trigger

each Iteration & conditionals ForEach

Lookup1 ForEach1

Properties General Related

Name * pipeline5

Description

Annotations New

General Settings Activities (0) User properties

Sequential Items *

This property should be parameterized.

The screenshot shows the Microsoft Azure Data Factory pipeline editor. A pipeline named 'pipeline5' is selected. The pipeline consists of two main activities: a 'Lookup' activity named 'Lookup1' and a 'ForEach' activity named 'ForEach1'. The 'Lookup1' activity has a green checkmark indicating it is successful. The 'ForEach1' activity has a red circle above it, likely indicating an error or warning. The 'Properties' pane on the right shows the pipeline is named 'pipeline5' and has no description. The 'Settings' tab is selected, showing the pipeline is set to run sequentially. A note in the 'Items' section says 'This property should be parameterized.' The left sidebar shows other pipelines like 'pipeline1', 'pipeline4', and 'pipeline5'.

Lookup & Copy Multiple Table

Microsoft Azure | Adminadmin

Search

Validate all Publish all 1

Data Factory pipeline1 pipeline4 pipeline5

Activities each Iteration & conditionals ForEach

Lookup1

ForEach

Add dynamic content

@activity('Lookup1').output.value

Clear contents

Add dynamic content above using any combination of [expressions](#), [functions](#) and [system variables](#). Click any of the available System variables or Functions below to add them directly:

Filter system variables and functions...

Lookup1
Lookup1 activity output

Lookup1 count
Count of the rows

Lookup1 value array
Array of row data

click to insert expression

OK Cancel

```
graph LR; Lookup1[Lookup1] --> ForEach[ForEach]; subgraph "Add dynamic content"; expr["@activity('Lookup1').output.value"]; end
```

Lookup & Copy Multiple Table

Microsoft Azure | Adminadmin

Search Validate all Publish all 1

pipeline1 pipeline4 pipeline5 AzureSqlTable2

Activities > Iteration & conditionals ForEach

Lookup1

ForEach1 Activities No activities

General Settings Activities (0) User properties

Case Activity

ForEach No activities

Properties

General Related

Name * pipeline5

Description

Annotations New

The screenshot shows the Microsoft Azure Data Factory Pipeline Editor. A pipeline named 'pipeline5' is selected. The pipeline consists of a 'Lookup' activity followed by a 'ForEach' activity. The 'Activities' tab is selected, showing the sequence of operations. The 'Properties' panel on the right displays the pipeline's name as 'pipeline5'. The 'Activities' section of the properties panel shows the current state of the pipeline.

Lookup & Copy Multiple Table

Microsoft Azure | Adminadmin

Search

Data Factory Validate all Publish all 1

pipeline1 pipeline4 pipeline5

Activities copy

Move & transform Copy data

pipeline5 > ForEach1

Copy data

Copy data1

General Source Sink Mapping Settings

Source dataset * Select...

Set properties

Name AzureSqlTable3

Linked service * AzureSqlDatabase3

Connect via integration runtime * AutoResolveIntegrationRuntime (Managed Virtual Network) Interactive authoring enabled

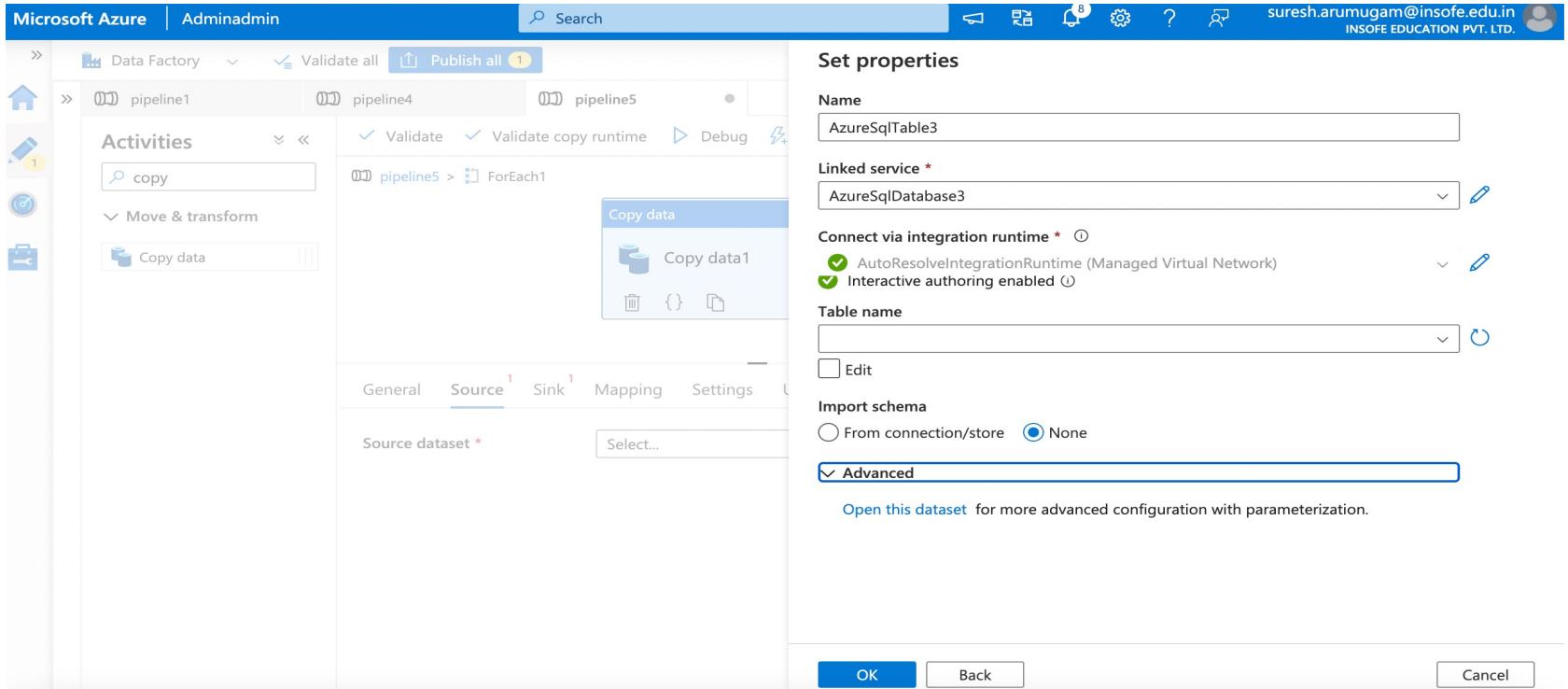
Table name

Import schema From connection/store None

Advanced

Open this dataset for more advanced configuration with parameterization.

OK Back Cancel



Lookup & Copy Multiple Table

Microsoft Azure | Adminadmin

Search

Data Factory Validate all Publish all 2

pipeline1 pipeline4 pipeline5 AzureSqlTable3

Azure SQL Database
AzureSqlTable3

Properties

General Related (1)

Name * AzureSqlTable3

Description

Annotations

New Delete

Name	Type	Default value
schema	String	Value
table	String	Value

The screenshot shows the Microsoft Azure Data Factory interface. On the left, there's a sidebar with icons for Home, Pipeline, Dataset, Parameter, and Variable. The main area shows a list of pipelines: pipeline1, pipeline4, pipeline5, and AzureSqlTable3. The AzureSqlTable3 pipeline is selected. On the right, the 'Properties' panel is open for 'AzureSqlTable3'. It has tabs for General (selected) and Related (1). Under General, there's a 'Name' field set to 'AzureSqlTable3' with a red asterisk indicating it's required. There's also a 'Description' field which is empty. Below the properties, there's an 'Annotations' section with a '+ New' button. At the bottom of the pipeline list, there are buttons for 'New' and 'Delete'. A table below the annotations lists parameters: 'schema' (Type: String, Default value: Value) and 'table' (Type: String, Default value: Value). The 'Parameters' tab is currently selected.

Lookup & Copy Multiple Table

The screenshot shows the Microsoft Azure Data Factory interface. On the left, there's a navigation sidebar with icons for Home, Pipeline, Dataset, Schema, Parameters, and Preview data. The main area shows a pipeline named 'pipeline1' with three stages: 'Azure SQL Database' (represented by a blue cylinder icon) and two other stages whose names are partially visible ('pipeline4' and 'pipeline5'). Below this, there are tabs for 'Connection', 'Schema', and 'Parameters'. Under 'Connection', the 'Linked service' is set to 'AzureSqlDatabase3' and 'Integration runtime' is set to 'AutoResolveIntegrationRuntime (Ma...)' with 'Interactive authoring enabled'. Under 'Schema', the 'Table' dropdown is set to '@dataset().schema'. A tooltip 'Add dynamic content' is shown over this field. Below the schema dropdown, there's a checkbox 'Edit' and a link 'Preview data'. On the right, a modal window titled 'Add dynamic content' is open. It contains a text input field with the placeholder '@dataset().table' and a 'Clear contents' button. Below the input field, instructions say 'Add dynamic content above using any combination of [expressions](#), [functions](#) and [system variables](#). Click any of the available System variables or Functions below to add them directly:' followed by a search bar 'Filter system variables and functions...' and a '+' button. At the bottom of the modal, there are 'OK' and 'Cancel' buttons.

Lookup & Copy Multiple Table

The screenshot shows the Microsoft Azure Data Factory interface. The top navigation bar includes 'Microsoft Azure' and 'Adminadmin'. The search bar contains 'Search'. On the right, there are icons for notifications (8), settings, help, and a user profile for 'suresh.arumugam@insofe.edu.in INSOFE EDUCATION PVT. LTD.'

The main workspace displays several pipelines: 'pipeline1', 'pipeline4', 'pipeline5', and 'AzureSqlTable3'. The 'AzureSqlTable3' pipeline is currently selected. On the left, there are icons for Home, New Pipeline, Recent Pipelines, and Tools.

The 'Parameters' tab is selected in the 'AzureSqlTable3' pipeline configuration. It shows a table with one row:

Name	Type	Default value
table	String	Value

The 'Properties' panel on the right shows the following details for the 'AzureSqlTable3' pipeline:

- General** tab is selected. The 'Name' field is set to 'AzureSqlTable3'.
- Description** field is empty.
- Annotations** section has a '+ New' button.

Lookup & Copy Multiple Table

Microsoft Azure | Adminadmin

Search

Data Factory Validate all Publish all 2

pipeline1 pipeline4 pipeline5 AzureSqlTable3

Azure SQL Database AzureSqlTable3

Properties

General Related (1)

Name * AzureSqlTable3

Description

Annotations + New

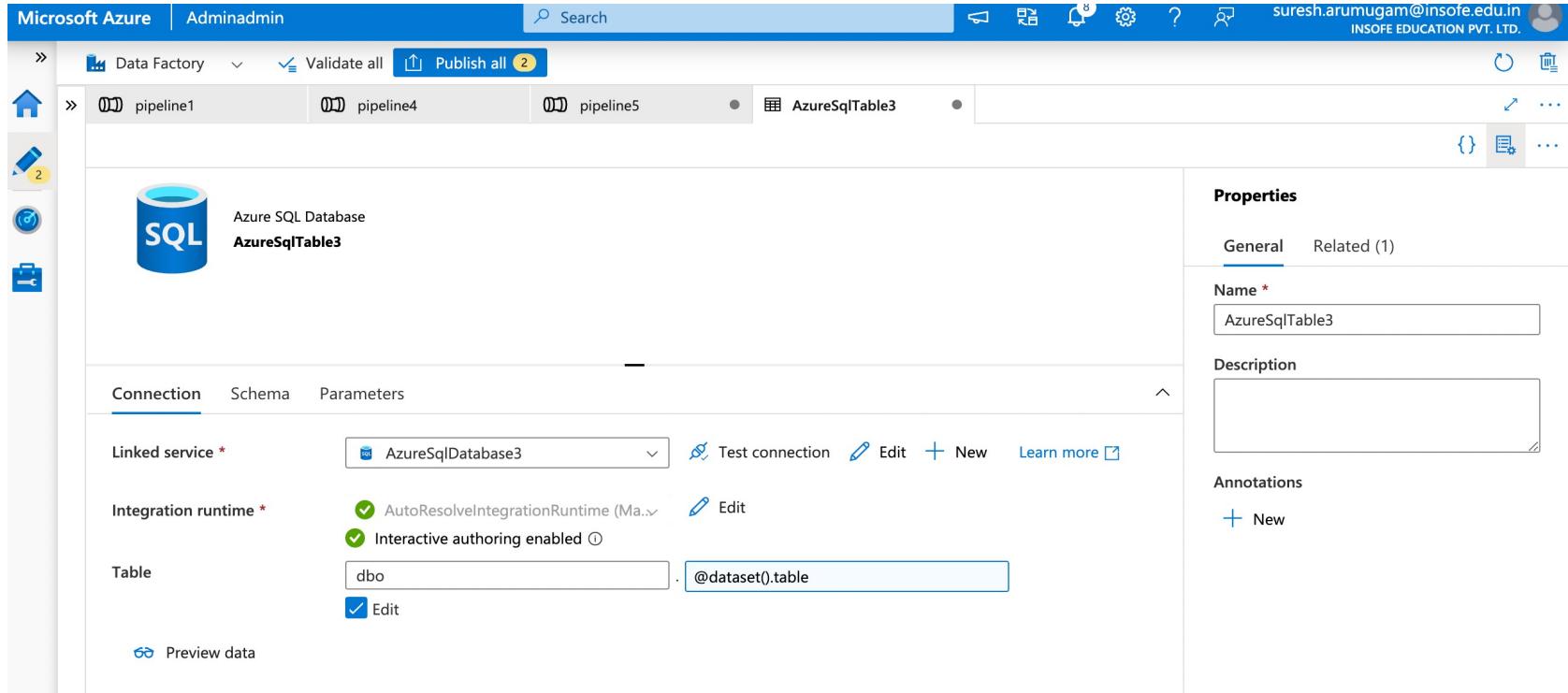
Connection Schema Parameters

Linked service * AzureSqlDatabase3 Test connection Edit New Learn more

Integration runtime * AutoResolveIntegrationRuntime (Ma.) Edit
Interactive authoring enabled

Table dbo @dataset().table Edit

Preview data



Lookup & Copy Multiple Table

Microsoft Azure | Adminadmin

Search Publish all 2

Validate all Validate copy runtime Debug Add trigger

pipeline1 pipeline4 pipeline5 pipeline5 > ForEach1

Copy data

Copy data1

Clear contents

Add dynamic content above using any combination of [expressions](#), [functions](#) and [system variables](#). Click any of the available System variables or Functions below to add them directly:

Filter system variables and functions...

Count of the rows

Lookup1 value array
Array of row data

ForEach iterator

ForEach1
Current item

OK Current item Cancel

General Source Sink¹ Mapping Settings User properties

Source dataset * AzureSqlTable3

Dataset properties

Name	Value
table	Value Add dynamic content [Alt+Shift+F]

Use query

Table Query Stored procedure

Query timeout (minutes) 120

The screenshot shows the Microsoft Azure Data Factory interface. A 'Copy data' step is selected, which contains a 'Copy data1' task. Below it, a 'ForEach' loop is shown with the name 'ForEach1'. The 'Source' tab is selected for the 'Copy data1' task. In the 'Source dataset' dropdown, 'AzureSqlTable3' is chosen. Under 'Dataset properties', there is a table with one row named 'table' and its value set to 'Value'. Below this, under 'Use query', the 'Table' option is selected. The 'OK' button is highlighted at the bottom right of the dialog.

Lookup & Copy Multiple Table

Microsoft Azure | Adminadmin

Search

Data Factory Validate all Publish all (2)

pipeline1 pipeline4 pipeline5 AzureSqlTable3

Validate Debug Add trigger

The screenshot shows the Microsoft Azure Data Factory Pipeline Editor. A pipeline named 'pipeline5' is selected. The pipeline consists of two main activities: a 'Lookup' activity and a 'ForEach' activity. The 'Lookup' activity has a green checkmark indicating success. It is connected to the 'ForEach' activity, which also has a green checkmark. The 'ForEach' activity contains one activity labeled 'Activities 1 activities'. On the left, there are tabs for 'General' and 'Settings' (which is currently selected), and 'User properties'. Under 'Settings', there is a 'Source dataset' dropdown set to 'AzureSqlTable2', a 'First row only' checkbox, and a 'Use query' section where 'Query' is selected. The 'Query' field contains the SQL command: `SELECT TABLE_NAME FROM INFORMATION_SCHEMA.TABLES WHERE TABLE_TYPE = 'BASE TABLE' and TABLE_CATALOG='org'`. On the right, there is a 'Properties' panel with tabs for 'General' and 'Related', and sections for 'Name' (set to 'pipeline5'), 'Description', and 'Annotations'. There is also a '+ New' button.

Properties

General Related

Name * pipeline5

Description

Annotations

+ New

General Settings User properties

Source dataset * AzureSqlTable2 Open + New Preview data Learn more

First row only

Use query

Query

```
SELECT TABLE_NAME FROM INFORMATION_SCHEMA.TABLES  
WHERE TABLE_TYPE = 'BASE TABLE' and TABLE_CATALOG='org'
```

Add dynamic content [Alt+Shift+D]

Lookup & Copy Multiple Table

Microsoft Azure | Adminadmin

Search

Validate all Publish all 2

Data Factory pipeline1 pipeline4 pipeline5

Validate copy runtime Debug Add trigger

pipeline5 > ForEach1

Copy data

General Source Sink¹ Mapping Settings User properties

Sink dataset * Select... + New

Set properties

Name DelimitedText2

Linked service * AzureBlobStorage2

Connect via integration runtime * AutoResolveIntegrationRuntime (Managed Virtual Network) Interactive authoring enabled

File path csv / multipleoutput / File

First row as header

Import schema From connection/store From sample file None

> Advanced

OK Back Cancel

The screenshot shows the Microsoft Azure Data Factory interface. On the left, a pipeline named 'pipeline5' is selected, containing a 'ForEach1' loop. Inside the loop, there is a 'Copy data' step. The 'Sink' tab is currently active. On the right, a 'Set properties' dialog is open for this sink operation. The 'Name' field is set to 'DelimitedText2'. The 'Linked service' dropdown is set to 'AzureBlobStorage2'. Under 'Connect via integration runtime', two options are checked: 'AutoResolveIntegrationRuntime (Managed Virtual Network)' and 'Interactive authoring enabled'. The 'File path' field is configured with 'csv' as the root folder, 'multipleoutput' as the subfolder, and 'File' as the final path component. The 'Import schema' section shows that 'None' is selected. At the bottom of the dialog are 'OK', 'Back', and 'Cancel' buttons.

Lookup & Copy Multiple Table

Microsoft Azure | Adminadmin

Search

Data Factory Validate all Publish all 3

pipeline1 pipeline4 pipeline5 AzureSqlTable3 DelimitedText2

CSV

DelimitedText DelimitedText2

Properties

General Related (1)

Name * DelimitedText2

Description

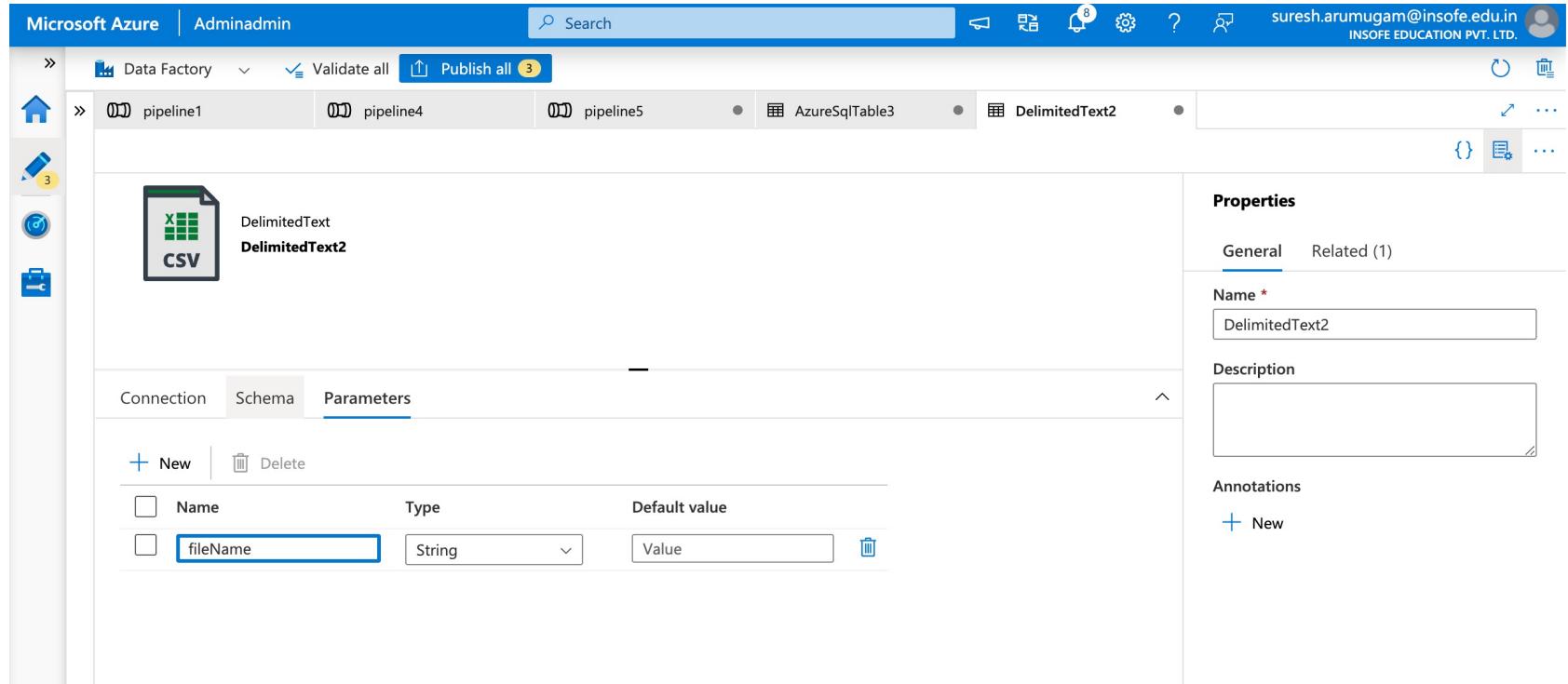
Annotations

New

Connection Schema Parameters

New Delete

Name	Type	Default value
fileName	String	Value



Lookup & Copy Multiple Table

Microsoft Azure | Adminadmin

Search

Data Factory Validate all Publish all 3

pipeline1 pipeline4 pipeline5

DelimitedText DelimitedText2

CSV

Add dynamic content

`@dataset().fileName`

Clear contents

Add dynamic content above using any combination of [expressions](#), [functions](#) and [system variables](#). Click any of the available System variables or Functions below to add them directly:

Filter system variables and functions...

Functions

Parameters

fileName

click to insert expression

OK Cancel

Connection Schema Parameters

Linked service * AzureBlobStorage2 Test conn

Integration runtime * AutoResolveIntegrationRuntime (Ma.) Edit

Interactive authoring enabled

File path * csv / multipleoutput / Add dy [Alt+S]

Compression type None

Column delimiter (,) Edit

Lookup & Copy Multiple Table

The screenshot shows the Microsoft Azure Data Factory interface. On the left, the 'Factory Resources' sidebar lists 'Pipelines' (pipeline1, pipeline2, pipeline3, pipeline4, pipeline5) and 'Datasets' (AzureSqlTable1, AzureSqlTable2, AzureSqlTable3, Binary2, Binary3, Binary4, Binary5, Binary6). The main area displays pipeline4 and pipeline5. Pipeline5 is selected and shows a 'ForEach1' loop. A 'Validate copy runtime' step is highlighted. On the right, the 'Add dynamic content' dialog is open, showing a code editor with the expression: `@concat(item().TABLE_NAME, '_', formatDateTime.UtcNow(), 'yyyy-MM-dd'), '.csv')`. Below the code editor is a 'Clear contents' button. A descriptive text block says: 'Add dynamic content above using any combination of [expressions](#), [functions](#) and [system variables](#). Click any of the available System variables or Functions below to add them directly:'. A search bar contains 'concat'. Below it, a 'Functions' section is expanded, showing 'concat' under 'String Functions' with the description: 'Combines any number of strings together. For example, if parameter1 is foo, the following express...'. At the bottom of the dialog are 'OK' and 'Cancel' buttons.

Lookup & Copy Multiple Table

Microsoft Azure | Adminadmin

Search

Data Factory Validate all Publish all 3

pipeline1 pipeline4 pipeline5 AzureSqlTable3 DelimitedText2 pipeline2

Validate Debug Add trigger

The screenshot shows a pipeline named 'pipeline5' in the Azure Data Factory interface. The pipeline consists of two main activities: a 'Lookup' activity named 'Lookup1' and an 'ForEach' activity named 'ForEach1'. The 'Lookup1' activity has a green checkmark indicating success. An arrow points from 'Lookup1' to 'ForEach1'. The 'ForEach1' activity also has a green checkmark. Below the activities, there is a table of pipeline run history:

Name	Type	Run start	Duration	Status
Copy data1	Copy data	2022-05-23T09:43:51.41112	00:01:09	Succeeded
Copy data1	Copy data	2022-05-23T09:42:43.32497	00:01:08	Succeeded
ForEach1	ForEach	2022-05-23T09:42:42.93442	00:02:19	Succeeded
Lookup1	Lookup	2022-05-23T09:42:35.58971	00:00:07	Succeeded

Properties

General Related

Name * pipeline5

Description

Annotations + New

Lookup & Copy Multiple Table

The screenshot shows two main sections of the Microsoft Azure Storage account interface.

Left Panel (Container View):

- Container:** CSV
- Actions:** Search (Cmd+/, Upload, Change access level, ...)
- Authentication method:** Access key (Switch to Azure AD User Account)
- Location:** csv / multipleoutput
- Search blobs by prefix (case-...):** emp_2022-05-23.csv
- Show deleted blobs:**
- Add filter:**
- Blob List:**

Name
[..]
emp_2022-05-23.csv
salary_2022-05-23.csv

Right Panel (Blob Preview):

Blob Name: multipleoutput/emp_2022-05-23.csv

Actions: Save, Discard, Download, Refresh, Delete

Tab Options: Overview, Versions, Snapshots, Edit (selected), Generate SAS

Preview Data:

1	101,"aaaa","aaaa",20,"city1"
2	102,"bbb","bbb",30,"city2"
3	103,"aaa","aaa",20,"city3"
4	104,"bbb","bbb",30,"city4"
5	105,"aaa","aaa",20,"city5"
6	106,"bbb","bbb",30,"city6"
7	107,"aaa","aaa",20,"city7"
8	108,"bbb","bbb",30,"city8"
9	109,"aaa","aaa",20,"city9"
10	110,"bbb","bbb",30,"city10"
11	111,"aaa","aaa",20,"city11"
12	101,"aaaa","aaaa",20,"city1"
13	102,"bbb","bbb",30,"city2"
14	103,"aaa","aaa",20,"city3"
15	104,"bbb","bbb",30,"city4"
16	105,"aaa","aaa",20,"city5"

Preview Options: Csv (selected), Preview

Parameterization

Microsoft Azure | Adminadmin

Search

Data Factory Validate all Publish all 3

DelimitedText1 pipeline2

Activities Validate Debug Add trigger

meta

General Get Metadata

Get Metadata1

Properties General Related

Name * pipeline2

Description

Annotations + New

General Settings 1 User properties

Name * Get Metadata1

Description

Timeout 7.00:00:00

Retry 0

Retry interval (sec) 30

The screenshot shows the Microsoft Azure Data Factory pipeline editor. The top navigation bar includes 'Microsoft Azure', the user 'Adminadmin', a search bar, and various icons for account management and help. Below the navigation is a breadcrumb trail: 'Data Factory' > 'DelimitedText1' > 'pipeline2'. The main workspace is titled 'Activities' with buttons for 'Validate', 'Debug', and 'Add trigger'. A search bar contains the text 'meta'. On the left, a sidebar lists 'General' activities, with 'Get Metadata' selected. In the center, a single activity named 'Get Metadata1' is displayed. To the right is the 'Properties' panel, which is currently set to the 'General' tab. It shows the activity's name as 'pipeline2' and has fields for 'Description', 'Annotations', and several timeout/retry settings.

METADATA

Microsoft Azure | Data Factory > Adminadmin

Search

Validate all Publish all 4

Data Factory DelimitedText1 pipeline2 Binary4

Activities each Iteration & conditionals ForEach

Validate Debug Add trigger

Get Metadata Get Metadata1

Properties General Related

Name * pipeline2

Description

Annotations + New

General Settings User properties

Dataset * Binary4 Open New Learn more

Field list * New Delete Argument Child items

Start time Add dynamic content Time (UTC)

Filter by last modified

Child items

Exists

Item name

Item type

Last modified

The screenshot shows the Microsoft Azure Data Factory pipeline editor. A 'Get Metadata' activity named 'Get Metadata1' is selected. The 'Settings' tab is active. Under 'Dataset', 'Binary4' is chosen. In the 'Field list' section, 'Child items' is selected. A dropdown menu is open over 'Child items', listing options: 'Add dynamic content', 'Time (UTC)', 'Child items', 'Exists', 'Item name', 'Item type', and 'Last modified'. On the right side, the 'Properties' panel shows the pipeline is named 'pipeline2'.

METADATA

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

Home > Storage accounts > secondinsofe >

 CSV ...
Container

 Upload  Change access level  Refresh |  Delete |  Change tier |  Acquire lease  Break lease |  View snapshots ...

Overview  Diagnose and solve problems  Access Control (IAM)

Settings

 Shared access tokens  Access policy  Properties  Metadata

 Show deleted blobs 

Name	Modified	Access tier	Archive status	Blob type	Size
<input type="checkbox"/>  174e2abb-aabf-4cdf-93f1-f0a2f3efd972					
<input type="checkbox"/>  92326d1b-4a81-4ec8-bff0-c84b8f736345					
<input type="checkbox"/>  94015af4-54f8-4ad8-bcca-789ab1329e47					
<input type="checkbox"/>  9d0527f8-5e98-42ed-9e20-776634bfbd22					
<input type="checkbox"/>  Azure SQL.pdf	5/20/2022, 3:06:35 PM	Hot (Inferred)		Block blob	3.52
<input type="checkbox"/>  claim pdf.pdf	5/20/2022, 3:06:24 PM	Hot (Inferred)		Block blob	163.
<input type="checkbox"/>  emp.csv	5/20/2022, 3:06:23 PM	Hot (Inferred)		Block blob	273
<input type="checkbox"/>  esakkiammal cheque.pdf	5/20/2022, 3:06:24 PM	Hot (Inferred)		Block blob	355.
<input type="checkbox"/>  pima-indians-diabetes.csv	5/15/2022, 10:00:01 ...	Hot (Inferred)		Block blob	23.4
<input type="checkbox"/>  salary.csv	5/20/2022, 3:06:23 PM	Hot (Inferred)		Block blob	243

METADATA

Microsoft Azure | Data Factory > Adminadmin

Search

Validate all Publish all 7

Activities

meta

General

Get Metadata

Get Metadata1

Validate Debug Add trigger

Properties

General Related

Name * pipeline2

Description

Annotations

New

General Settings User properties

Dataset * Binary2 Open New Learn more

Field list * New Delete

Argument

Child items

Start time Add dynamic content

Filter by last modified

Child items

Exists

Item name

Item type

ime (UTC)

METADATA

Microsoft Azure | Data Factory > Adminadmin

Search

Data Factory Validate all Publish all 7

pipeline2

Activities Validate Debug Add trigger

meta

General Get Metadata

Output

Copy to clipboard

```
{ "childItems": [ { "name": "174e2abb-aabf-4cdf-93f1-f0a2f3efd972", "type": "Folder" }, { "name": "92326d1b-4a81-4ec8-bff0-c84b8f736345", "type": "Folder" }, { "name": "94015af4-54f8-4ad8-bcca-789ab1329e47", "type": "File" } ] }
```

Get Metadata1

Get Metadata

View debug run consumption

Run start	Duration	Status
2022-05-20T15:36:59.6140+00:00	00:00:04	Success

Properties

General Related

Name * pipeline2

Description

Annotations

New

The screenshot shows the Microsoft Azure Data Factory pipeline editor. A 'Get Metadata' activity is selected, and its output is displayed in a modal window. The output JSON shows three items: a folder named '174e2abb-aabf-4cdf-93f1-f0a2f3efd972', another folder named '92326d1b-4a81-4ec8-bff0-c84b8f736345', and a file named '94015af4-54f8-4ad8-bcca-789ab1329e47'. The pipeline has a single step named 'Get Metadata1' that completed successfully. The pipeline itself is named 'pipeline2'.

METADATA

Microsoft Azure | Data Factory > Adminadmin

Search

Validate all Publish all (7)

Data Factory pipeline2

Author Activities

Get Metadata1

ForEach1

ForEach

Activities No activities

Validate Debug Add trigger

Properties

General Related

Name * pipeline2

Description

Annotations

+ New

Pipeline run ID: 7e3a0011-5b22-4a23-a350-8fe35f0a8190

View debug run consumption

Name	Type	Run start	Duration	Status
Get Metadata1	Get Metadata	2022-05-20T15:36:59.6140-	00:00:04	Success

```
graph LR; GetMetadata1[Get Metadata1] --> ForEach1[ForEach1]; ForEach1 --> Next[ ];
```

METADATA

Microsoft Azure | Data Factory > Adminadmin

Search Publish all 7

Validate all Add trigger

Activities

each

Iteration & conditionals

ForEach

Validate Debug Add trigger

Get Metadata1

ForEach

Add dynamic content

```
@activity('Get_Metadata1').output.childItems
```

Clear contents

Add dynamic content above using any combination of **expressions, functions and system variables**. Click any of the available System variables or Functions below to add them directly:

Filter system variables and functions...

> System variables

> Functions

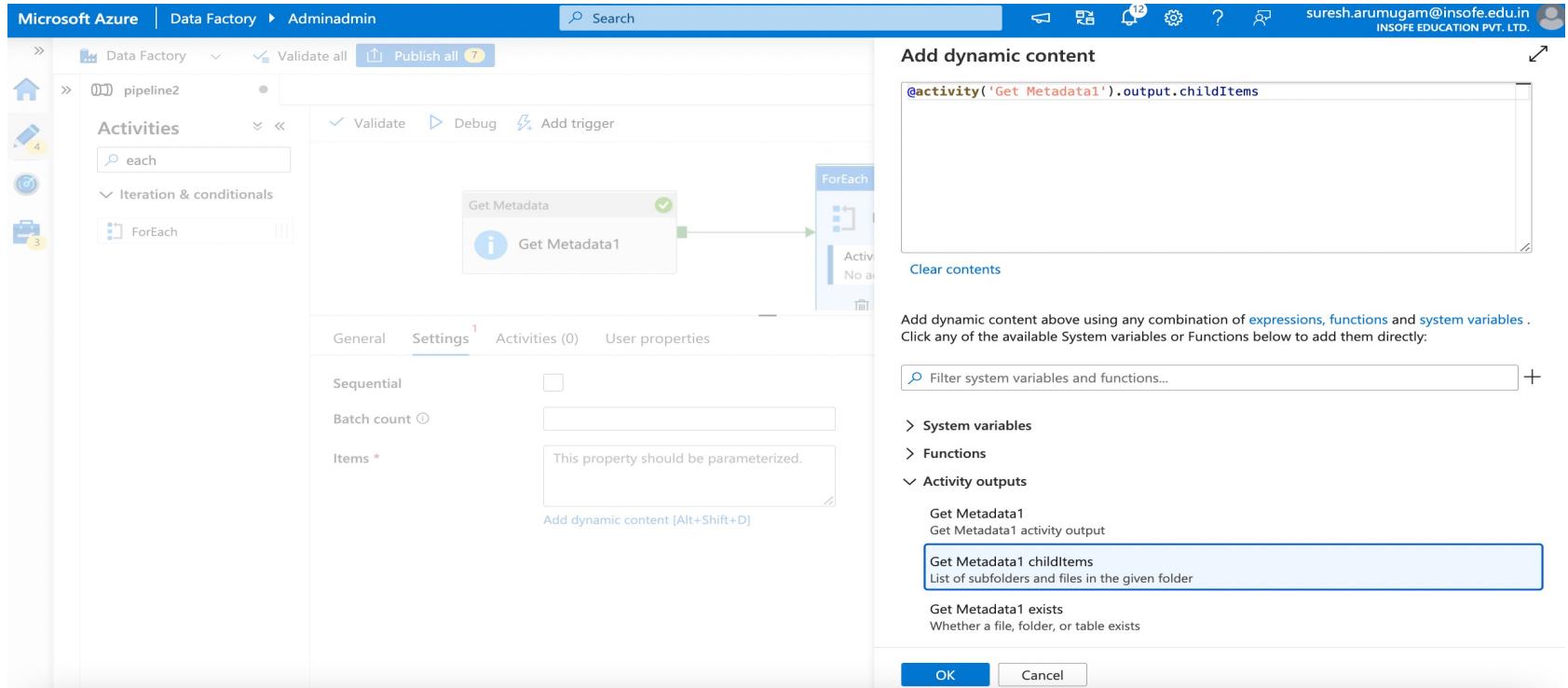
< Activity outputs

Get Metadata1
Get Metadata1 activity output

Get Metadata1 childItems
List of subfolders and files in the given folder

Get Metadata1 exists
Whether a file, folder, or table exists

OK Cancel



METADATA

Microsoft Azure | Data Factory | Adminadmin

Search Validate all Publish all 8

Activities pipeline2 Binary2 Binary3

Validate Debug Add trigger

met General Get Metadata

pipeline2 > ForEach1

Get Metadata2

Properties

General Related

Name * pipeline2

Description

Annotations + New

General Settings User properties

Dataset * Binary3 Open New Learn more

Dataset properties

Name	Value	Type

The screenshot shows the Microsoft Azure Data Factory pipeline editor. A pipeline named 'pipeline2' is selected. Inside the pipeline, there is a 'ForEach1' loop containing a single 'Get Metadata' activity named 'Get Metadata2'. The 'Get Metadata' activity has a dataset input set to 'Binary3'. On the right side of the screen, the 'Properties' panel is open for the pipeline, showing the name 'pipeline2' and other basic metadata fields. Below the properties panel, there are tabs for 'General', 'Settings', and 'User properties', with 'Settings' currently selected. At the bottom, there is a table for managing dataset properties.

METADATA

Microsoft Azure | Data Factory > Adminadmin

Search

Data Factory Validate all Publish all 8

pipeline2 Binary2 Binary3

Binary 01 Binary3

Properties

General Related (1)

Name * Binary3

Description

Annotations

New

Connection Parameters

Linked service * AzureBlobStorage2 Test connection Edit New Learn more

Integration runtime * AutoResolveIntegrationRuntime (Ma... Edit

Interactive authoring enabled

File path * csv / Directory / @dataset().fileName Browse

Compression type None

This screenshot shows the Microsoft Azure Data Factory interface for managing datasets. The top navigation bar includes 'Microsoft Azure', 'Data Factory', 'Adminadmin', a search bar, and various notification and account icons. The main workspace displays a pipeline named 'pipeline2' with two stages: 'Binary2' and 'Binary3'. A preview pane on the left shows a document icon labeled '01' and 'Binary3'. The right-hand panel is focused on the 'Binary3' dataset, with its properties being edited. The 'Properties' section is open, showing the 'General' tab selected. The dataset is named 'Binary3' and has an empty 'Description' field. The 'Annotations' section contains a '+ New' button. Below the properties, there are tabs for 'Connection' and 'Parameters'. Under 'Connection', the 'Linked service' is set to 'AzureBlobStorage2', and the 'Integration runtime' is set to 'AutoResolveIntegrationRuntime (Ma...)' with 'Interactive authoring enabled'. The 'File path' is configured as 'csv / Directory / @dataset().fileName', and the 'Compression type' is set to 'None'.

METADATA

Microsoft Azure | Data Factory ▶ Adminadmin

Search Publish all 8

Validate all

Binary2 Binary3

Validate Debug Add trigger

Activities General Get Metadata

pipeline2 > ForEach

Get Metadata

Properties

General Related

Name * pipeline2

Description

Annotations

New

General Settings User properties

Dataset * Binary3 Open New Learn more

Dataset properties

Name	Value	Type
fileName	@item().name	string

Field list *

New Delete Argument Size

General

Settings

User properties

Dataset * Binary3

Open New Learn more

Dataset properties

Name	Value	Type
fileName	@item().name	string

Field list *

New Delete Argument Size

METADATA

Microsoft Azure | Data Factory > Adminadmin

Search Validate all Publish all 8

Data Factory pipelines Binary2 Binary3

Activities General Get Metadata

Get Metadata1 ForEach1 Activities 1 activities

Properties General Related Name * pipeline2 Description Annotations + New

Parameters Variables Settings Output Pipeline run ID: 28d699ea-a4e9-434c-8902-fb0f043ecbf7 View debug run consumption

Name	Type	Run start	Duration	Status
Get Metadata2	Get Metadata	2022-05-20T16:05:55.743Z	00:00:03	Succeeded
Get Metadata2	Get Metadata	2022-05-20T16:05:51.854Z	00:00:03	Succeeded
Get Metadata2	Get Metadata	2022-05-20T16:05:48.604Z	00:00:03	Succeeded
Get Metadata2	Get Metadata	2022-05-20T16:05:44.758Z	00:00:03	Succeeded
Get Metadata2	Get Metadata	2022-05-20T16:05:40.882Z	00:00:03	Succeeded
Get Metadata2	Get Metadata	2022-05-20T16:05:37.740Z	00:00:02	Succeeded
ForEach1	ForEach	2022-05-20T16:05:36.944Z	00:00:23	Succeeded

METADATA

Microsoft Azure | Data Factory ▶ Adminadmin

Search Publish all 8

Validate all

Activities

met

General

Get Metadata

Output

Copy to clipboard

```
{
  "size": 24045,
  "itemName": "pima-indians-diabetes.csv",
  "effectiveIntegrationRuntime": "AutoResolveIntegrationRuntime (South India)",
  "executionDuration": 0,
  "durationInQueue": {
    "integrationRuntimeQueue": 0
  },
  "billingReference": {
    "activityType": "PipelineActivity",
    "billableDuration": [
      ...
    ]
  }
}
```

ForEach

ForEach1

Activities 1 activities

n start Duration Status

n start	Duration	Status
22-05-20T16:05:55.7433	00:00:03	Succeeded
2022-05-20T16:05:51.8545	00:00:03	Succeeded
2022-05-20T16:05:48.6045	00:00:03	Succeeded
2022-05-20T16:05:44.7583	00:00:03	Succeeded
2022-05-20T16:05:40.8823	00:00:03	Succeeded
2022-05-20T16:05:37.7408	00:00:02	Succeeded
2022-05-20T16:05:36.9440	00:00:23	Succeeded

Properties

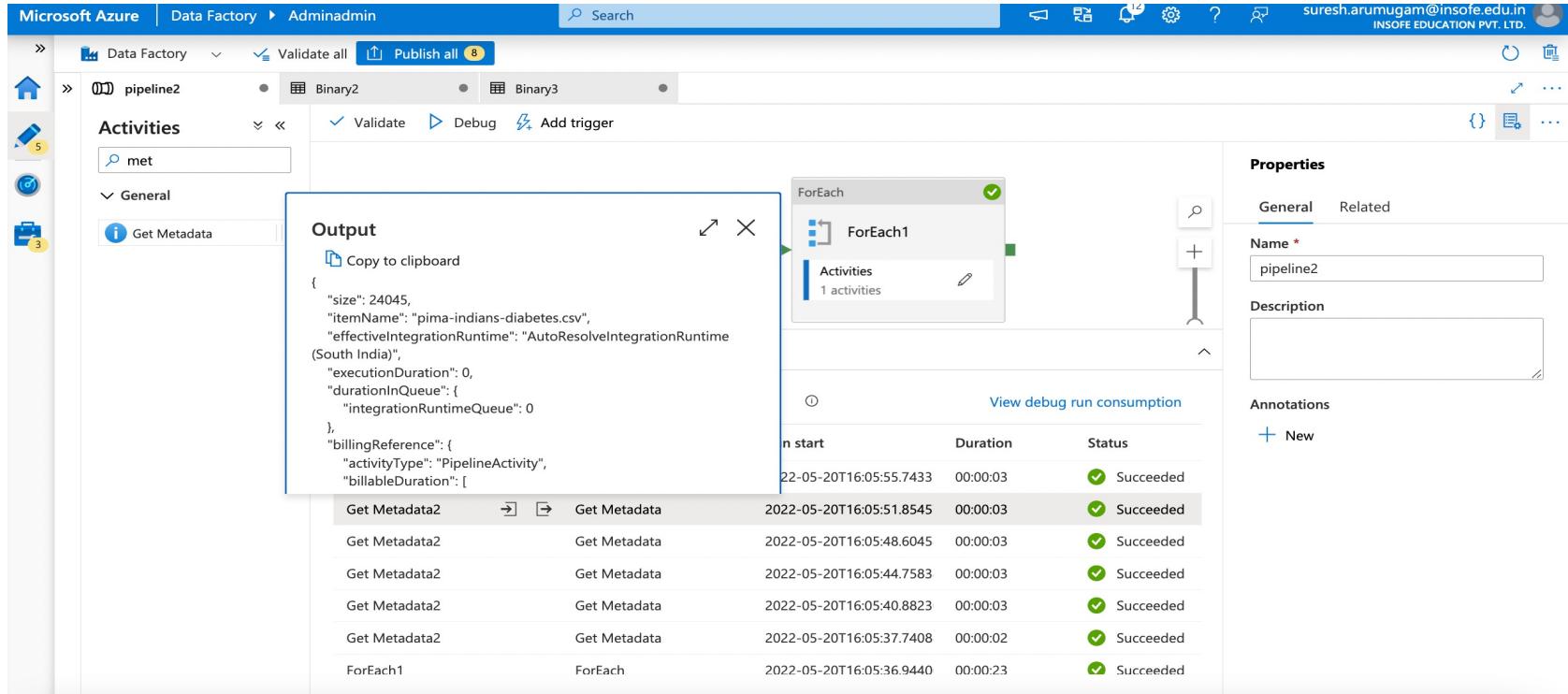
General Related

Name * pipeline2

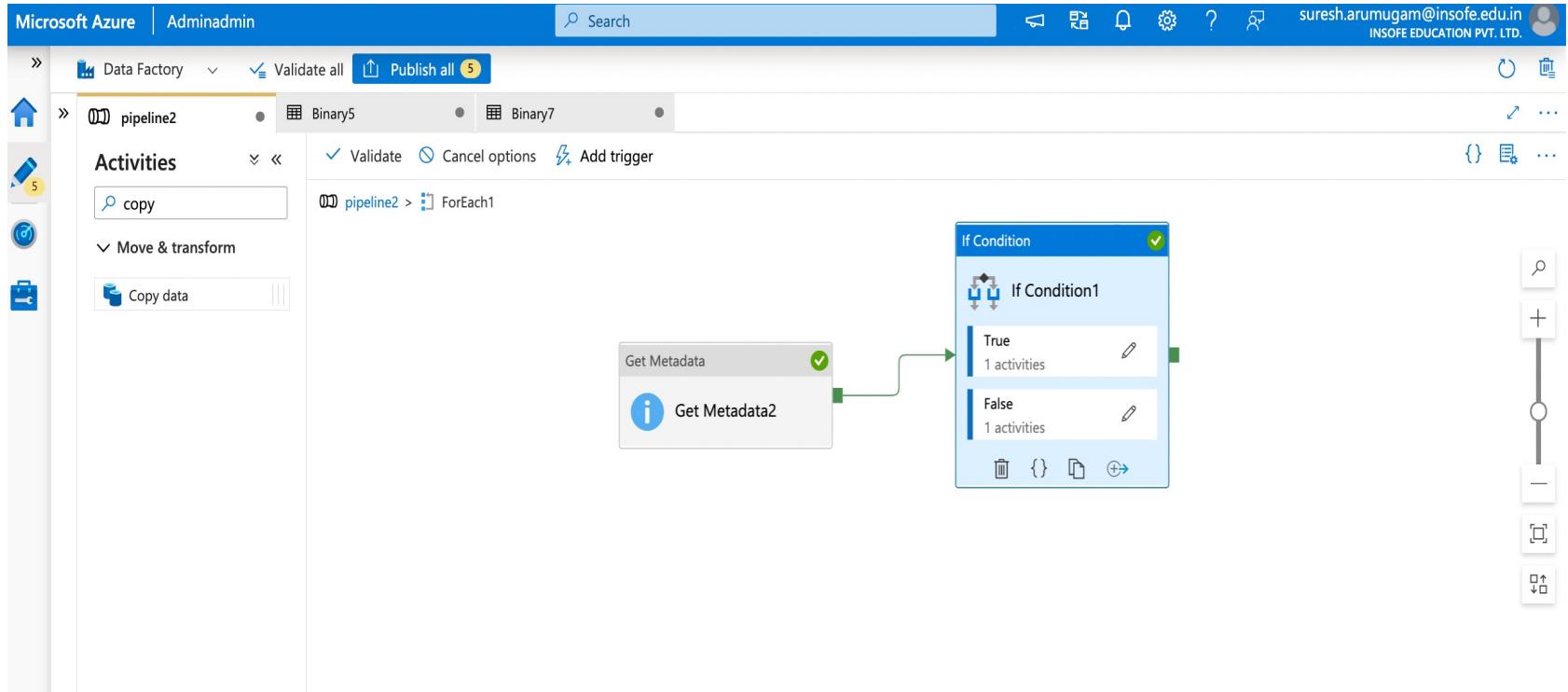
Description

Annotations

+ New



METADATA



METADATA

Microsoft Azure | Adminadmin

Search

Validate all Publish all 5

Activities

copy

Move & transform

Copy data

Binary5 Binary7

Validate Cancel options Add trigger

pipeline2 > ForEach1

Get Metadata

Get Metadata2

Add dynamic content

```
@lessOrEquals(activity('Get Metadata2').output.size,100)
```

Clear contents

Add dynamic content above using any combination of **expressions**, **functions** and **system variables**. Click any of the available System variables or Functions below to add them directly:

Filter system variables and functions...

Get Metadata1 itemType
Type of the file or folder. Returned value is File or Folder

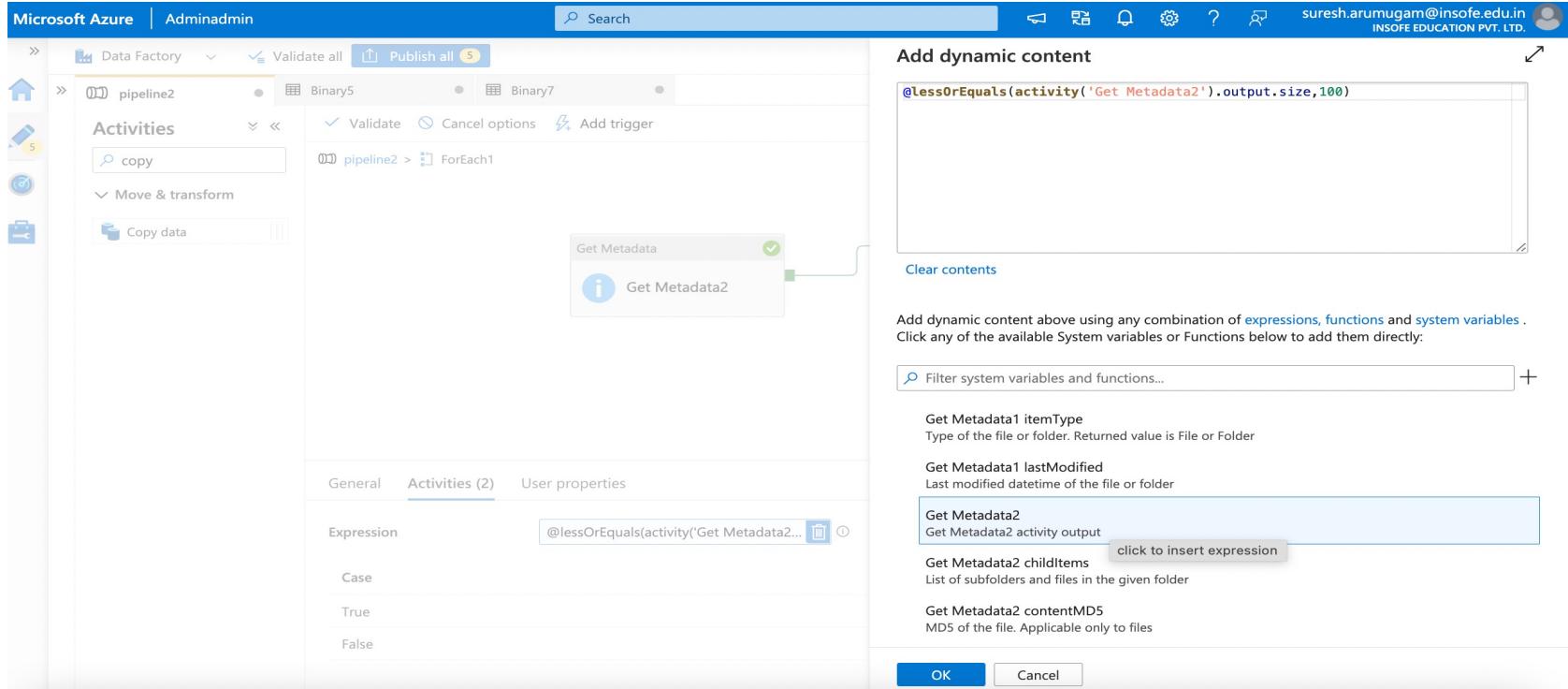
Get Metadata1 lastModified
Last modified datetime of the file or folder

Get Metadata2
Get Metadata2 activity output
click to insert expression

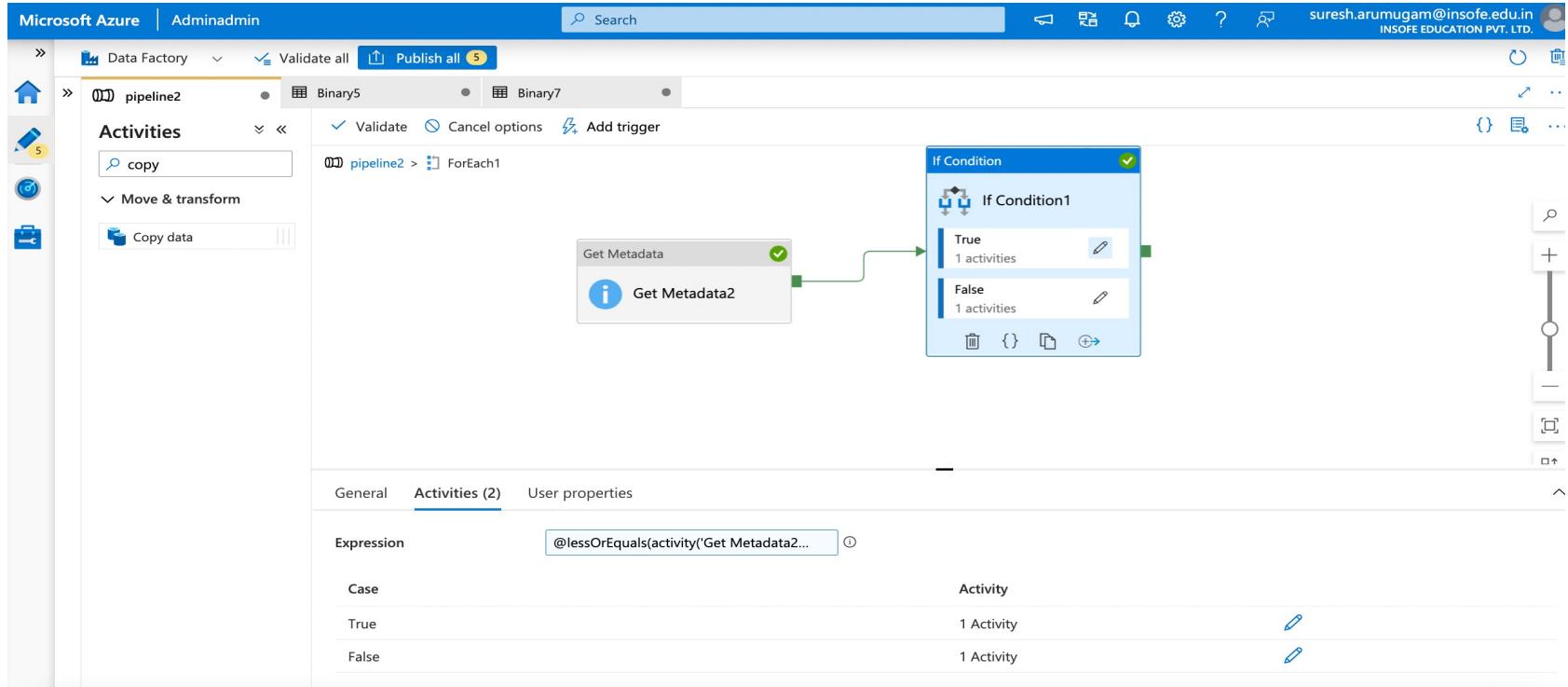
Get Metadata2 childItems
List of subfolders and files in the given folder

Get Metadata2 contentMD5
MD5 of the file. Applicable only to files

OK Cancel



METADATA



METADATA

Microsoft Azure | Adminadmin

Search

Data Factory Validate all Publish all 5

pipeline2 Binary5 Binary7

Activities copy

Move & transform Copy data

Validate Validate copy runtime Debug Add trigger

pipeline2 > ForEach1 > If Condition1 > True activities

Copy data

Copy data1

General Source Sink Mapping Settings User properties

Name * Copy data1 Learn more

Description

Timeout 7:00:00:00

The screenshot shows the Microsoft Azure Data Factory pipeline editor. A 'Copy data' activity is selected, with its configuration pane open at the bottom. The activity is named 'Copy data1'. The 'General' tab is selected, showing the name, a description field (empty), and a timeout setting of '7:00:00:00'. Other tabs include 'Source', 'Sink', 'Mapping', 'Settings', and 'User properties'. The pipeline structure above shows a 'ForEach1' loop containing an 'If Condition1' branch, which then branches into 'True' and 'False' activities. The pipeline is named 'pipeline2'.

METADATA

Microsoft Azure | Adminadmin

Search

Data Factory Validate all Publish all 5

pipeline2 Binary5 Binary7

Binary 01 Binary5

Properties

General Related (1)

Name * Binary5

Description

Annotations

+ New

Connection Parameters

Linked service * AzureBlobStorage2 Test connection Edit + New Learn more

Integration runtime * AutoResolveIntegrationRuntime (Ma.) Edit

Interactive authoring enabled

File path * csv / Directory / @dataset().fileName Browse

Compression type None

This screenshot shows the Microsoft Azure Data Factory interface. The top navigation bar includes 'Microsoft Azure' and 'Adminadmin'. The main workspace displays a pipeline named 'pipeline2' with two stages: 'Binary5' and 'Binary7'. The 'Binary5' stage is currently selected, showing its configuration details. The 'Connection' tab is active, displaying a linked service named 'AzureBlobStorage2' and an integration runtime named 'AutoResolveIntegrationRuntime (Ma.)'. Under 'File path', the path is set to 'csv' followed by a directory and the expression '@dataset().fileName'. The 'Compression type' is set to 'None'. On the right side, the 'Properties' panel is open, showing the 'General' tab with the name 'Binary5' and a description field. The 'Annotations' section has a '+ New' button.

METADATA

Microsoft Azure | Adminadmin

Search

Data Factory Validate all Publish all 5

Binary5 Binary7

Validate Validate copy runtime Debug Add trigger

pipeline2 > ForEach1 > If Condition1 > True activities

copy

Move & transform

Copy data

Copy data

Copy data1

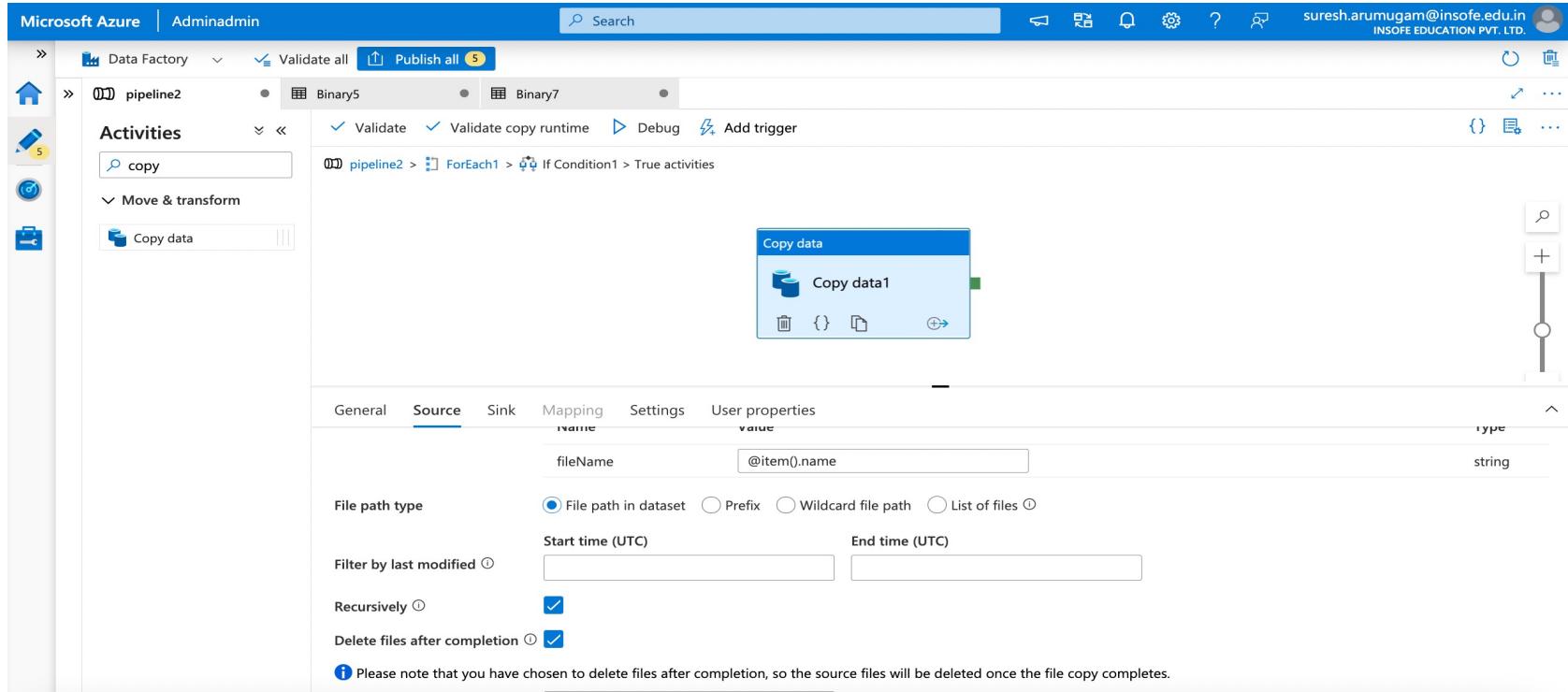
fileName @item().name string

File path type File path in dataset Prefix Wildcard file path List of files

Filter by last modified Start time (UTC) End time (UTC)

Recursively Delete files after completion

Please note that you have chosen to delete files after completion, so the source files will be deleted once the file copy completes.



METADATA

Microsoft Azure | Adminadmin

Search

Data Factory Validate all Publish all 5

pipeline2 Binary5 Binary7 Binary6

Binary 01

Properties

General Related (1)

Name * Binary6

Description

Annotations

+ New

Connection Parameters

Linked service * AzureBlobStorage2 Test connection Edit + New Learn more

Integration runtime * AutoResolveIntegrationRuntime (Ma.) Edit

Interactive authoring enabled

File path * csv / output / File Browse |

Compression type None

This screenshot shows the Microsoft Azure Data Factory interface. At the top, there's a navigation bar with 'Microsoft Azure' and 'Adminadmin'. Below it is a search bar and several icons. The main area shows a pipeline named 'pipeline2' with four stages: 'Binary5', 'Binary7', 'Binary6', and 'Binary8'. Stage 'Binary6' is currently selected, displaying its properties. The 'Properties' panel on the right shows the 'General' tab is selected, with the name set to 'Binary6'. There are tabs for 'Related (1)' and other sections like 'Description' and 'Annotations'. Below the properties, there's a configuration section with tabs for 'Connection' and 'Parameters'. Under 'Connection', the 'Linked service' is set to 'AzureBlobStorage2', with options to 'Test connection', 'Edit', 'New', and 'Learn more'. Under 'Parameters', the 'Integration runtime' is set to 'AutoResolveIntegrationRuntime (Ma.)', with an 'Edit' button. There are also checkboxes for 'Interactive authoring enabled' and 'Compression type' (set to 'None').

METADATA

Microsoft Azure | Adminadmin

Search Publish all 5

Validate all Binary5 Binary7 Binary6

Validate Validate copy runtime Debug Add trigger

pipeline2 > ForEach1 > If Condition1 > False activities

copy

Move & transform

Copy data

Copy data2

General Source Sink Mapping Settings User properties

Source dataset * Binary7 Open New Learn more

Dataset properties

Name	Type
fileName	string

File path type

File path in dataset Prefix Wildcard file path List of files

Start time (UTC) End time (UTC)

Filter by last modified

```
graph TD; Start(( )) --> Copy[Copy data]; Copy --> End(( ));
```

METADATA

Microsoft Azure | Adminadmin

Search

Data Factory Validate all Publish all 5

pipeline2 Binary5 Binary7 Binary6 Binary8

Binary 01 Binary8

Properties

General Related (1)

Name * Binary8

Description

Annotations

+ New

Connection Parameters

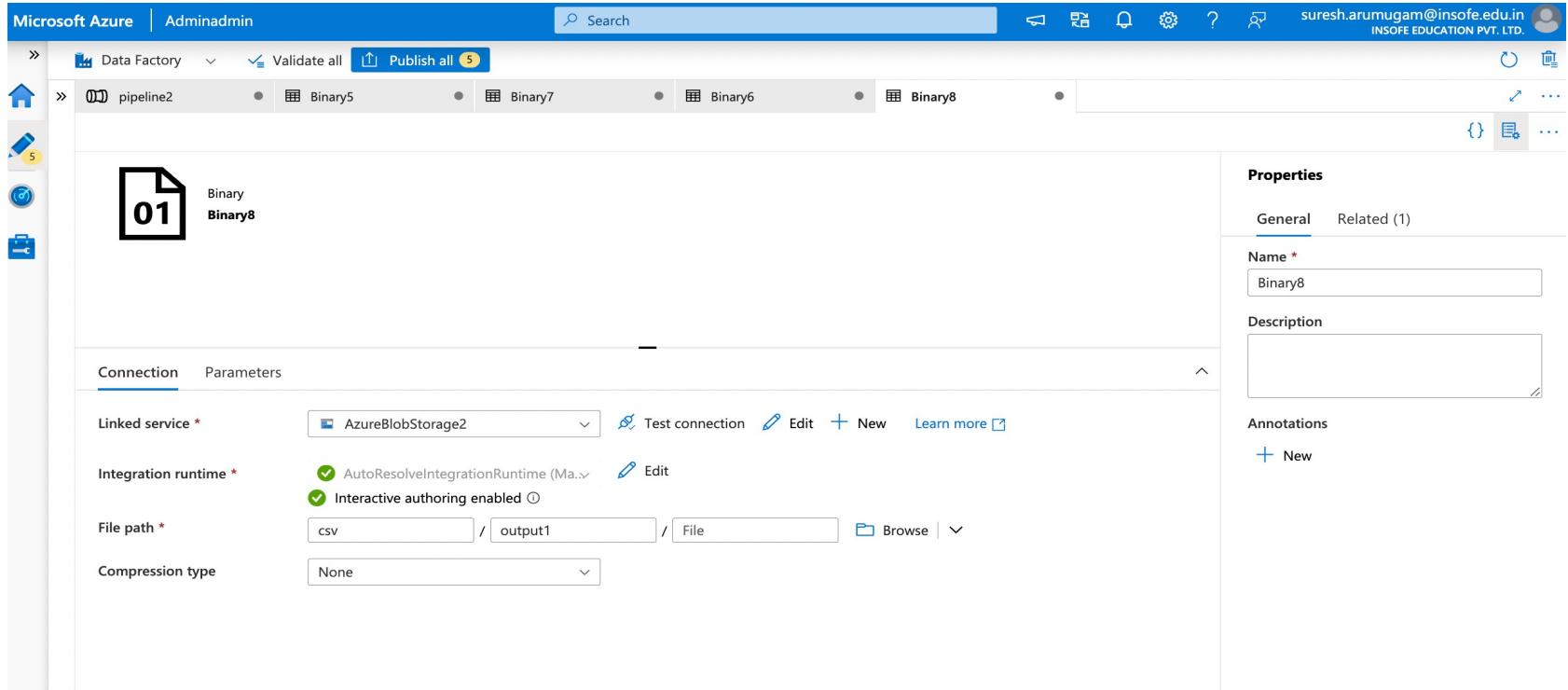
Linked service * AzureBlobStorage2 Test connection Edit + New Learn more

Integration runtime * AutoResolveIntegrationRuntime (Ma.) Edit

Interactive authoring enabled

File path * csv / output1 / File Browse

Compression type None



METADATA

Microsoft Azure | Data Factory > Adminadmin

Validate all Publish all 3

Search

Activities << Validate Debug Add trigger

copy

Parameters Variables Settings Output

Pipeline run ID: f5425421-dcc5-446c-93eb-d19cb43139ba

View debug run consumption

Name	Type	Run start	Duration	Status	Integration runtime	Run ID
Copy data2	Copy data	2022-05-20T17:27:03.0451854Z	00:01:42	Succeeded	AutoResolveIntegrationRuntime (Sou)	ada52cbf-0c4a-4242-a1cd-8a9a6a63c
If Condition1	If Condition	2022-05-20T17:27:02.3889615Z	00:01:44	Succeeded		d1bb7680-9f5a-4053-9db-e7824779
Get Metadata2	Get Metadata	2022-05-20T17:26:58.1545533Z	00:00:04	Succeeded	AutoResolveIntegrationRuntime (Sou)	d87581f1-9b54-40fd-8601-5ed996cc
Copy data2	Copy data	2022-05-20T17:25:50.9576915Z	00:01:06	Succeeded	AutoResolveIntegrationRuntime (Sou)	7f700e55-0e5f-46d1-b81b-5866caa25
If Condition1	If Condition	2022-05-20T17:25:50.3483204Z	00:01:08	Succeeded		8bc66965-a2ab-4c23-b47a-29b75800
Get Metadata2	Get Metadata	2022-05-20T17:25:46.6011617Z	00:00:03	Succeeded	AutoResolveIntegrationRuntime (Sou)	6f4aebdd-f48a-4039-ad1e-812da03f0
Copy data2	Copy data	2022-05-20T17:24:19.6608862Z	00:01:26	Succeeded	AutoResolveIntegrationRuntime (Sou)	51e81d5a-f232-4150-b21d-44a6bd0c
If Condition1	If Condition	2022-05-20T17:24:19.0046415Z	00:01:27	Succeeded		b13cf0f80-df72-4748-9545-d236430a3
Get Metadata2	Get Metadata	2022-05-20T17:24:16.2001323Z	00:00:02	Succeeded	AutoResolveIntegrationRuntime (Sou)	a023f32a-5e1b-46c1-ba24-91d5d85f0d
Copy data2	Copy data	2022-05-20T17:23:16.9291214Z	00:00:58	Succeeded	AutoResolveIntegrationRuntime (Sou)	bc564596-02ee-4eca-b8b2-c0c7379c
If Condition1	If Condition	2022-05-20T17:23:16.2572741Z	00:01:00	Succeeded		ffc126f0-5206-45ea-bd0f-0be434c23C
Get Metadata2	Get Metadata	2022-05-20T17:23:12.366644Z	00:00:03	Succeeded	AutoResolveIntegrationRuntime (Sou)	2d1130d4-12da-40b6-8559-95f10a2f4
Copy data2	Copy data	2022-05-20T17:22:05.5269951Z	00:01:05	Succeeded	AutoResolveIntegrationRuntime (Sou)	993811d0-3293-4633-99cb-35dd6711
If Condition1	If Condition	2022-05-20T17:22:05.9801249Z	00:01:06	Succeeded		3c9da69d-a9ac-4e85-874c-81999660
Get Metadata2	Get Metadata	2022-05-20T17:22:02.4801312Z	00:00:03	Succeeded	AutoResolveIntegrationRuntime (Sou)	b5268c0-4f4d-429e-813b-58c7625f
Copy data2	Copy data	2022-05-20T17:20:57.4340793Z	00:01:04	Succeeded	AutoResolveIntegrationRuntime (Sou)	5a7eb365-bf9d-4a07-b2f8-ca89e33b
If Condition1	If Condition	2022-05-20T17:20:56.9028685Z	00:01:06	Succeeded		07d578fb-c61e-4623-baa1-08b6ec18:
Get Metadata2	Get Metadata	2022-05-20T17:20:53.7464542Z	00:00:03	Succeeded	AutoResolveIntegrationRuntime (Sou)	e525bb10-c5a4-412a-a8da-05dad085
ForEach1	ForEach	2022-05-20T17:20:53.3401864Z	00:07:56	Succeeded		f6b6f637-0ee5-42dd-9163-84d97589f
Get Metadata1	Get Metadata	2022-05-20T17:19:41.0496366Z	00:01:12	Succeeded	AutoResolveIntegrationRuntime (Sou)	7ef3e521-3f12-4735-9242-2957fe1c9f

METADATA

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

Home > Storage accounts > secondinsofe >

 CSV 

Container

 Search (Cmd+/)  Upload  Change access level  Refresh  Delete  Change tier  Acquire lease  Break lease  View snapshots 

Overview  Diagnose and solve problems  Access Control (IAM)

Authentication method: Access key ([Switch to Azure AD User Account](#))
Location: csv

Search blobs by prefix (case-sensitive)  Show deleted blobs

 Add filter

Name	Modified	Access tier	Archive status	Blob type	Size
<input type="checkbox"/>  output1					

METADATA

Microsoft Azure  Search resources, services, and docs (G+/-)        suresh.arumugam@ins...
INSOFE EDUCATION PVT. LTD. (I...)

Home > Storage accounts > secondinsofe >

 CSV  Container

 Search (Cmd+/) <>  Upload  Change access level  Refresh |  Delete |  Change tier |  Acquire lease  Break lease  View snapshots ...

 Overview  Diagnose and solve problems  Access Control (IAM)

Authentication method: Access key ([Switch to Azure AD User Account](#))
Location: csv / output1

Search blobs by prefix (case-sensitive)  Show deleted blobs



Name	Modified	Access tier	Ar...	Blob type	Size	Lease state	...
<input type="checkbox"/>  [...]							...
<input type="checkbox"/>  Azure SQL.pdf	5/20/2022, 10:51:59 ...	Hot (Inferred)		Block blob	3.52 MiB	Available	...
<input type="checkbox"/>  claim pdf.pdf	5/20/2022, 10:53:09 ...	Hot (Inferred)		Block blob	163.64 KiB	Available	...
<input type="checkbox"/>  emp.csv	5/20/2022, 10:54:13 ...	Hot (Inferred)		Block blob	273 B	Available	...
<input type="checkbox"/>  esakkiammal cheque.pdf	5/20/2022, 10:55:44 ...	Hot (Inferred)		Block blob	355.52 KiB	Available	...
<input type="checkbox"/>  pima-indians-diabetes....	5/20/2022, 10:56:55 ...	Hot (Inferred)		Block blob	23.48 KiB	Available	...
<input type="checkbox"/>  salary.csv	5/20/2022, 10:58:43 ...	Hot (Inferred)		Block blob	243 B	Available	...

METADATA

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

Home > Storage accounts > secondinsofe

secondinsofe | Containers

Storage account

Search (Cmd +/)

+ Container Change access level Restore containers Refresh Delete

Overview Activity log Tags Diagnose and solve problems Access Control (IAM) Data migration Events Storage browser (preview)

Search containers by prefix

Show deleted containers

Name	Last modified	Public access level	Lease state
\$logs	5/15/2022, 9:59:12 AM	Private	Available
csv	5/15/2022, 9:59:44 AM	Private	Available
data	5/15/2022, 10:00:51 AM	Private	Available

Containers File shares Queues Tables

METADATA

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

Home > Storage accounts > secondinsofe >

data Container

Search (Cmd+/)  Upload  Change access level  Refresh  Delete  Change tier  Acquire lease  Break lease  View snapshots ...

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

Diagnose and solve problems

Access Control (IAM)

Settings

Shared access tokens

Access policy

Properties

Metadata

Search blobs by prefix (case-sensitive)  Show deleted blobs



Name	Modified	Access tier	Archive status	Blob type	Size	Lease state	...
<input type="checkbox"/> myinput3.csv	5/15/2022, 10:03:02 ...	Hot (Inferred)		Block blob	209.67 KiB	Available	

METADATA

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

Home > Storage accounts > secondinsofe >

data Container

Search (Cmd+/) Upload Change access level Refresh Delete Change tier Acquire lease Break lease View snapshots ...

Overview Diagnose and solve problems Access Control (IAM)

Authentication method: Access key ([Switch to Azure AD User Account](#))
Location: data

Search blobs by prefix (case-sensitive) Show deleted blobs

Add filter

Name	Modified	Access tier	Archive status	Blob type	Size
<input type="checkbox"/> emp.csv	5/21/2022, 12:00:40 ...	Hot (Inferred)		Block blob	273
<input type="checkbox"/> myinput3.csv	5/15/2022, 10:03:02 ...	Hot (Inferred)		Block blob	209.
<input type="checkbox"/> salary.csv	5/21/2022, 12:00:52 ...	Hot (Inferred)		Block blob	243

METADATA

Microsoft Azure | Data Factory > Adminadmin

Search

Validate all Publish all 1

Activities

- copy
- Move & transform
- Copy data

Binary5 Binary7 Binary6

Validate Debug Add trigger

pipeline2 > ForEach1

Get Metadata

Get Metadata2

Add dynamic content

```
@equals(formatDateTime(utcNow(), 'yyyy-MM-dd'), formatDateTime(activity('Get Metadata2').output.lastModified, 'yyyy-MM-dd'))
```

Clear contents

Add dynamic content above using any combination of [expressions](#), [functions](#) and [system variables](#). Click any of the available System variables or Functions below to add them directly:

Filter system variables and functions...

Get Metadata2 childItems
List of subfolders and files in the given folder

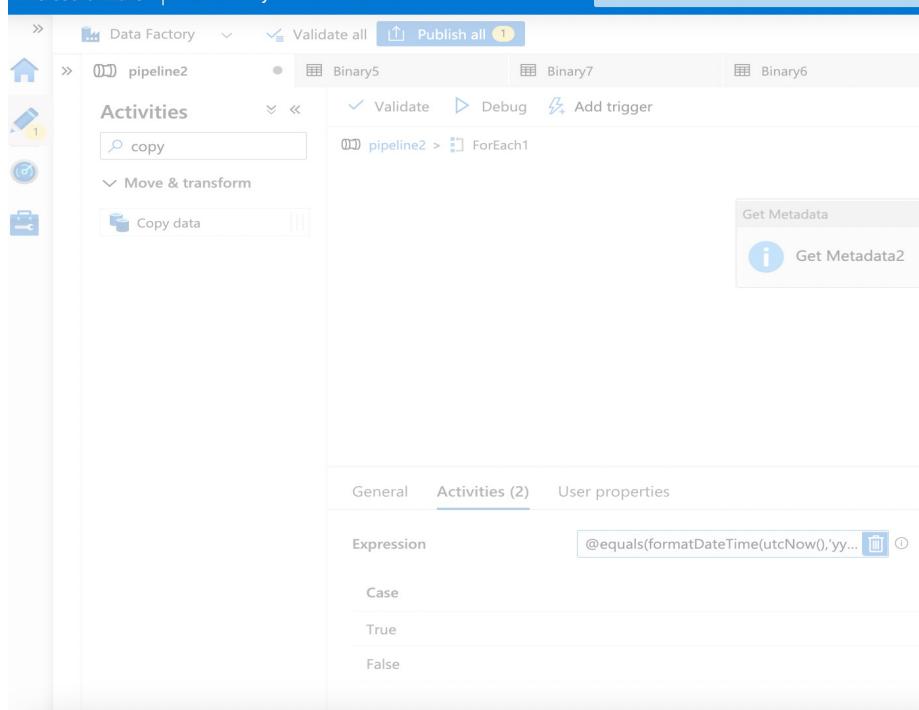
Get Metadata2 contentMD5
MD5 of the file. Applicable only to files

Get Metadata2 exists
Whether a file, folder, or table exists

Get Metadata2 itemName
Name of the file or folder

Get Metadata2 itemType
Type of the file or folder. Returned value is File or Folder

OK Cancel



METADATA

Microsoft Azure | Data Factory > Adminadmin

Validate all Publish all 7

Activities

copy

Move & transform

Copy data

Binary5 Binary7 Binary6 Binary8 Binary3 Binary2

Validate Cancel options Add trigger

pipeline2 > ForEach1

Get Metadata2

If Condition

If Condition1

True 1 activities

False 1 activities

General Settings User properties

Dataset * Binary3 Open New Learn more

Dataset properties

Name	Value	Type
fileName	@item().name	string

Field list *

New Delete

Argument

Last modified

Item name

The screenshot shows the Microsoft Azure Data Factory pipeline editor. A pipeline named 'pipeline2' is selected. Inside the pipeline, there is a 'ForEach1' loop. The first activity in the loop is a 'Get Metadata' activity, which is connected to an 'If Condition' activity. The 'If Condition' activity has two branches: 'True' and 'False', each containing one activity. The 'Settings' tab is selected for the 'Get Metadata' activity, showing a dataset named 'Binary3'. The 'Dataset properties' section contains a single entry: 'fileName' with a value of '@item().name'. The 'Type' column indicates it is a string. Below this, the 'Field list' section shows 'Last modified' and 'Item name' as arguments.

METADATA

Microsoft Azure | Data Factory > Adminadmin

Search

Data Factory Validate all Publish all 7

Binary5 Binary7 Binary6 Binary8 Binary3 Binary2

Validate Validate copy runtime Debug Add trigger

Activities copy

Move & transform Copy data

Copy data1

Copy data

General Source Sink Mapping Settings User properties

Sink dataset * Binary6 Open New Learn more

Copy behavior None

Max concurrent connections

Block size (MB)

Metadata New

The screenshot shows the Microsoft Azure Data Factory pipeline editor. At the top, there's a navigation bar with 'Microsoft Azure', 'Data Factory', and 'Adminadmin'. Below it is a toolbar with icons for search, notifications, settings, and help. The main workspace shows a pipeline named 'pipeline2' with several activities: 'Binary5', 'Binary7', 'Binary6', 'Binary8', 'Binary3', and 'Binary2'. A 'Validate' and 'Validate copy runtime' button is present. On the left, there's a sidebar with 'Activities' (containing 'copy') and 'Move & transform' (containing 'Copy data'). In the center, a 'Copy data' activity is selected, shown in a preview window with the name 'Copy data1'. Below the preview, there are tabs for 'General', 'Source', 'Sink', 'Mapping', 'Settings', and 'User properties'. The 'Sink' tab is active, showing a dropdown for 'Sink dataset' set to 'Binary6', and options for 'Copy behavior' (set to 'None'), 'Max concurrent connections', 'Block size (MB)', and 'Metadata'. There are also 'Open', 'New', and 'Learn more' buttons.

METADATA

Microsoft Azure | Data Factory > Adminadmin

Search Validate all Publish all 7

pipeline2 Binary5 Binary7 Binary6 Binary8 Binary3 Binary2

Binary6

Properties

General Related (1)

Name * Binary6

Description

Annotations

Connection Parameters

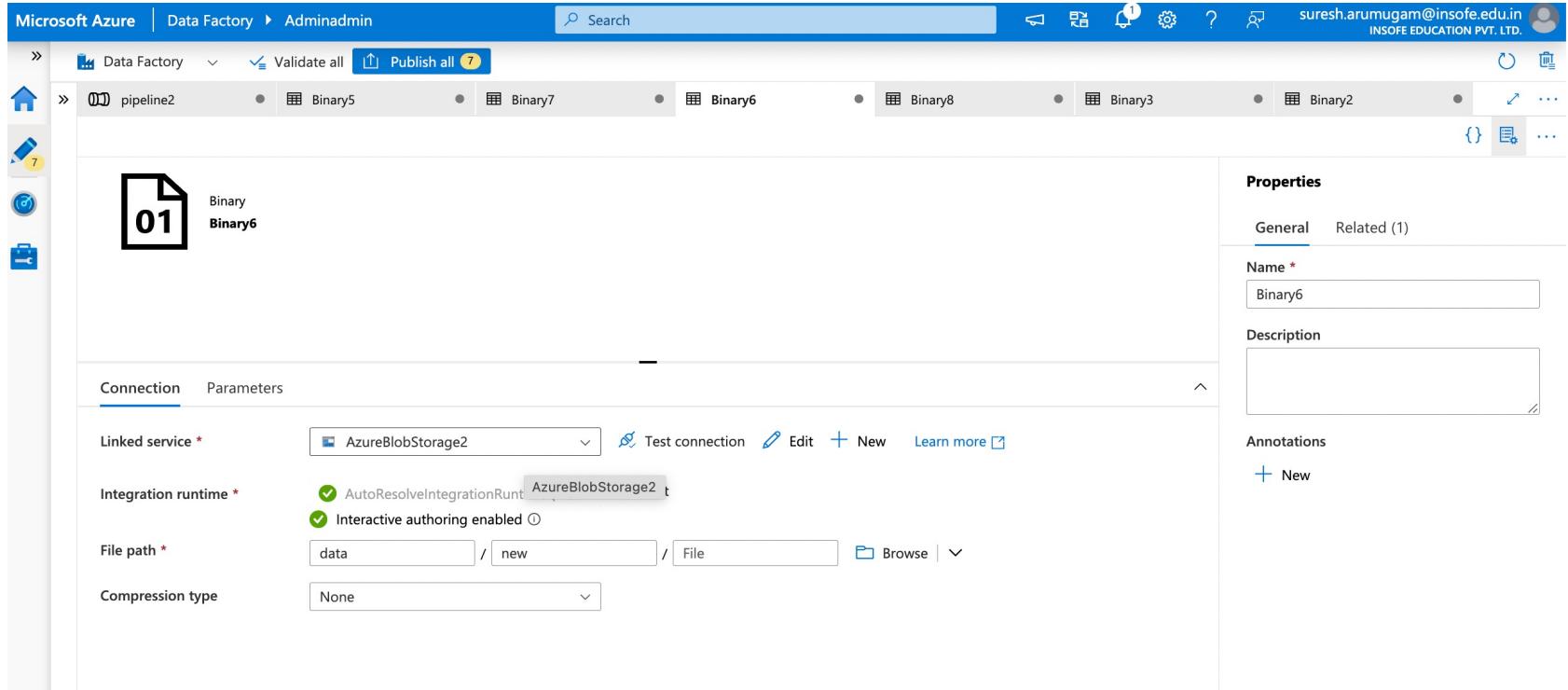
Linked service * AzureBlobStorage2 Test connection Edit + New Learn more

Integration runtime * AutoResolveIntegrationRuntime AzureBlobStorage2 t

Interactive authoring enabled

File path * data / new / File Browse

Compression type None



METADATA

Microsoft Azure | Data Factory > Adminadmin

Search

Data Factory Validate all Publish all 7

Binary5 Binary7 Binary6 Binary8 Binary3 Binary2

Activities Validate Validate copy runtime Debug Add trigger

pipeline2 > ForEach1 > If Condition1 > False activities

copy

Move & transform

Copy data

Copy data2

General Source Sink Mapping Settings User properties

Sink dataset * Binary8 Open New Learn more

Copy behavior None

Max concurrent connections

Block size (MB)

Metadata + New

The screenshot shows the Microsoft Azure Data Factory pipeline editor. A 'Copy data' activity named 'Copy data2' is selected. The interface includes a toolbar at the top with various icons for validation, publishing, and triggers. Below the toolbar, a navigation pane shows a hierarchy: pipeline2 > ForEach1 > If Condition1 > False activities. On the left, there's a sidebar with activity categories like 'copy' and 'Move & transform'. The main workspace displays the 'Sink' tab of the 'Copy data' activity configuration. It shows the 'Sink dataset' set to 'Binary8', 'Copy behavior' set to 'None', and other settings like 'Max concurrent connections' and 'Block size (MB)'. At the bottom, there's a 'Metadata' section with a '+ New' button.

METADATA

Microsoft Azure | Data Factory > Adminadmin

Search

Data Factory Validate all Publish all 7

pipeline2 Binary5 Binary7 Binary6 Binary8 Binary3 Binary2

Binary 01 Binary8

Properties

General Related (1)

Name * Binary8

Description

Annotations

+ New

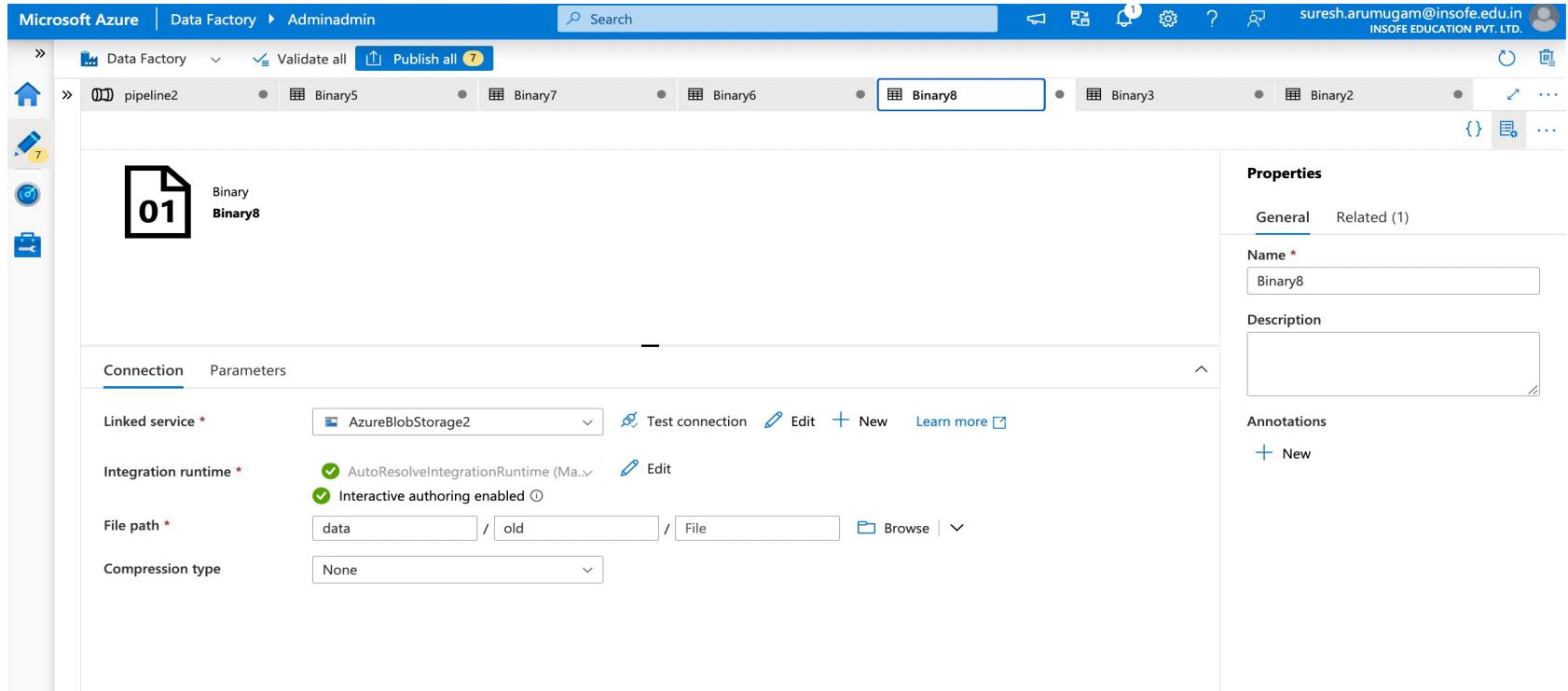
Connection Parameters

Linked service * AzureBlobStorage2 Test connection Edit + New Learn more

Integration runtime * AutoResolveIntegrationRuntime (Ma.) Edit
Interactive authoring enabled

File path * data / old / File Browse

Compression type None



METADATA

Microsoft Azure | Data Factory > Adminadmin

Search Publish all

Validate all

Validate all

Binary5 Binary7 Binary6 Binary8 Binary3 Binary2

Activities

copy

Move & transform

Copy data

Validate Debug Add trigger

Parameters Variables Settings Output

Pipeline run ID: 7f516e34-7e71-4eee-8395-6e3850527525

View debug run consumption

Name	Type	Run start	Duration	Status	Integration runtime	Ru
Copy data1	Copy data	2022-05-20T18:45:14.41393	00:01:05	✓ Succeeded	AutoResolveIntegrationRur	7e
If Condition1	If Condition	2022-05-20T18:45:14.07020	00:01:07	✓ Succeeded		a1
Get Metadata2	Get Metadata	2022-05-20T18:45:10.05343	00:00:03	✓ Succeeded	AutoResolveIntegrationRur	9c
Copy data2	Copy data	2022-05-20T18:43:34.58373	00:01:34	✓ Succeeded	AutoResolveIntegrationRur	77
If Condition1	If Condition	2022-05-20T18:43:33.78686	00:01:36	✓ Succeeded		83
Get Metadata2	Get Metadata	2022-05-20T18:43:30.20661	00:00:03	✓ Succeeded	AutoResolveIntegrationRur	b7
Copy data1	Copy data	2022-05-20T18:42:28.77865	00:01:00	✓ Succeeded	AutoResolveIntegrationRur	01
If Condition1	If Condition	2022-05-20T18:42:28.29425	00:01:02	✓ Succeeded		f2
Get Metadata2	Get Metadata	2022-05-20T18:42:25.57545	00:00:02	✓ Succeeded	AutoResolveIntegrationRur	23
ForEach1	ForEach	2022-05-20T18:42:25.16918	00:03:59	✓ Succeeded		9f
Get Metadata1	Get Metadata	2022-05-20T18:42:21.29403	00:00:03	✓ Succeeded	AutoResolveIntegrationRur	90

METADATA

Microsoft Azure [Upgrade](#) 

Home >

 **data** ...
Container

 [Upload](#) [Change access level](#) [Refresh](#) [Delete](#) [Change tier](#) [Acquire lease](#) [Break lease](#) [View snapshots](#) ...

[Overview](#) [Diagnose and solve problems](#) [Access Control \(IAM\)](#)

Authentication method: Access key ([Switch to Azure AD User Account](#))
Location: data

 Show deleted blobs

[Add filter](#)

Name	Modified	Access tier	Archive status	Blob type	Size
<input type="checkbox"/> new					
<input type="checkbox"/> old					

METADATA

Microsoft Azure [Upgrade](#) [Search resources, services, and docs \(G+\)](#)

Home > **data** Container

Search (Cmd+/) [Upload](#) [Change access level](#) [Refresh](#) [Delete](#) [Change tier](#) [Acquire lease](#) [Break lease](#) [View snapshots](#) ...

Authentication method: Access key ([Switch to Azure AD User Account](#))
Location: data / new

Search blobs by prefix (case-sensitive) Show deleted blobs

[Add filter](#)

Name	Modified	Access tier	Archive status	Blob type	Size
[..]	5/21/2022, 12:13:27 ...	Hot (Inferred)		Block blob	273
emp.csv	5/21/2022, 12:16:17 ...	Hot (Inferred)		Block blob	243
salary.csv					

METADATA

Microsoft Azure [Upgrade](#)      

suresh.arumugam@ins...
INSOFE EDUCATION PVT. LTD. (I...)

Home >

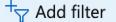
 **data** ...

Container

  Upload  Change access level  Refresh |  Delete |  Change tier |  Acquire lease  Break lease  View snapshots ...

Authentication method: Access key (Switch to Azure AD User Account)
Location: data / old

  Show deleted blobs

 Add filter

Name	Modified	Access tier	Archive status	Blob type	Size
<input type="checkbox"/>  [...]					
<input type="checkbox"/>  myinput3.csv	5/21/2022, 12:15:06 ...	Hot (Inferred)		Block blob	209.

METADATA

Microsoft Azure | Data Factory > Adminadmin

Search Validate all Publish all 2

Activities Binary5 Binary7 Binary6 Binary8 Binary3 Binary2 pipeline3

Validate Debug Add trigger

Iteration & conditionals Filter

Get Metadata1 Filter1

Properties General Related

Name * pipeline3

Description

Annotations + New

General Settings User properties

Dataset * Binary9 Open New Learn more

Field list * + New Delete Argument Child items

Start time (UTC) End time (UTC)

Filter by last modified

The screenshot shows the Microsoft Azure Data Factory Pipeline Editor. A pipeline named 'pipeline3' is displayed. The pipeline consists of two activities: 'Get Metadata1' and 'Filter1'. 'Get Metadata1' is set to use dataset 'Binary9'. The 'Settings' tab is selected. The 'General' tab shows the dataset as 'Binary9'. The 'User properties' tab is empty. The 'Annotations' section has a '+ New' button. The 'Properties' pane on the right shows the pipeline name as 'pipeline3' and its description. The 'General' tab is selected in the properties pane.

METADATA

Microsoft Azure | Data Factory > Adminadmin

Search

Validate all Publish all 2

Binary7 Binary6 Binary8 Binary3 Binary2 pipeline3 Binary9

Binary 01 Binary9

Properties

General Related (1)

Name * Binary9

Description

Annotations

+ New

Connection Parameters

Linked service * AzureBlobStorage2 Test connection Edit + New Learn more

Integration runtime * AutoResolveIntegrationRuntime (Ma.) Edit

Interactive authoring enabled

File path * csv / output1 / File Browse

Compression type None

This screenshot shows the Microsoft Azure Data Factory interface. On the left, there's a navigation bar with 'Data Factory' and 'Adminadmin'. The main area displays a dataset named 'Binary9' with a preview showing the number '01'. Below the preview, there are tabs for 'Connection' and 'Parameters'. Under 'Connection', the 'Linked service' is set to 'AzureBlobStorage2', and the 'Integration runtime' is 'AutoResolveIntegrationRuntime (Ma.)' with 'Interactive authoring enabled'. The 'File path' is defined as 'csv / output1 / File'. The 'Compression type' is set to 'None'. On the right, the 'Properties' panel is open, showing the 'General' tab with the name 'Binary9' and a related item. There are also sections for 'Description' and 'Annotations'.

METADATA

Microsoft Azure | Data Factory > Adminadmin

Search

Validate all Publish all 2

Data Factory Binary7 Binary6 Binary8 Binary3

Activities filter Iteration & conditions Filter

Get Metadata Get Metadata1 Filter1

General Settings User properties

Items @activity('Get Metadata1').output.chil... Condition @endswith(item().name,'csv')

Add dynamic content

```
@activity('Get Metadata1').output.childItems
```

Clear contents

Add dynamic content above using any combination of **expressions**, **functions** and **system variables**. Click any of the available System variables or Functions below to add them directly:

Filter system variables and functions...

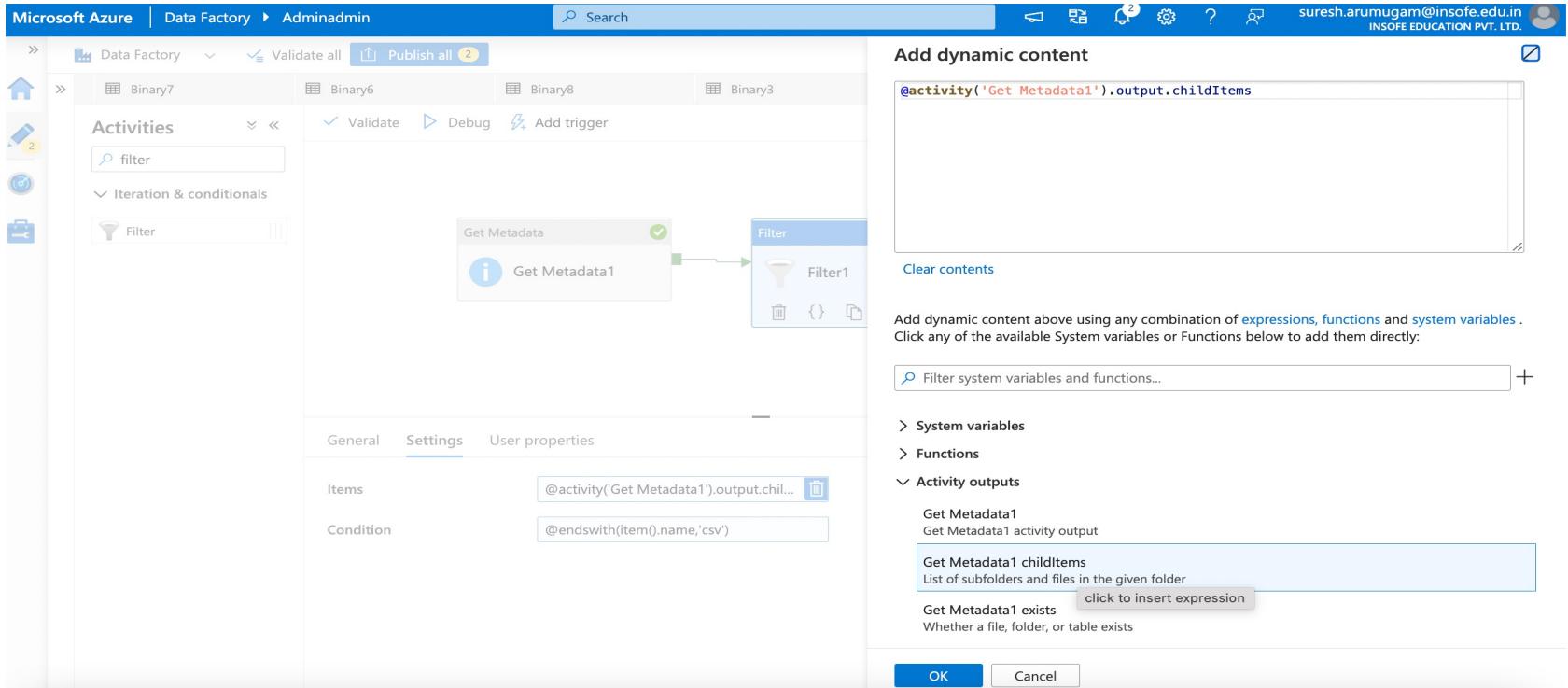
> System variables
> Functions
Activity outputs

Get Metadata1
Get Metadata1 activity output

Get Metadata1 childItems
List of subfolders and files in the given folder
Get Metadata1 exists
Whether a file, folder, or table exists

click to insert expression

OK Cancel



METADATA

Microsoft Azure | Data Factory > Adminadmin

Search Publish all 2

Activities

Binary7 Binary6 Binary8 Binary3

Validate Debug Add trigger

Iteration & conditionals

Filter

Get Metadata1 Filter1

Add dynamic content

```
@endswith(item().name, 'csv')
```

Clear contents

Add dynamic content above using any combination of [expressions](#), [functions](#) and [system variables](#). Click any of the available System variables or Functions below to add them directly:

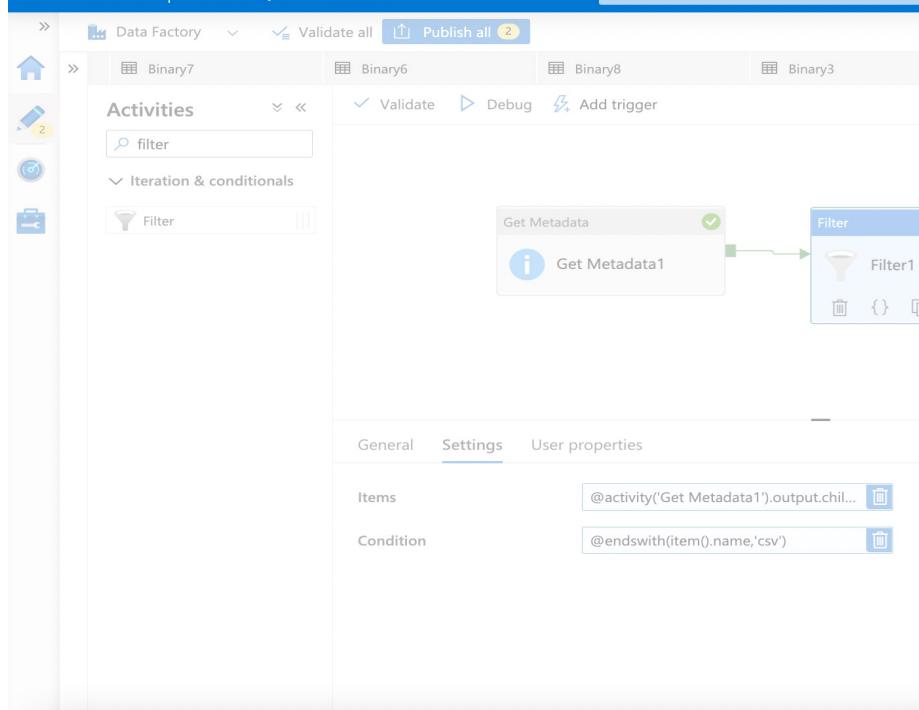
Filter system variables and functions...

String Functions

- concat
- endswith
- guid
- indexof

click to insert expression

OK Cancel



METADATA

Microsoft Azure | Data Factory > Adminadmin

Search

Validate all Publish all 2

Activities

Binary7 Binary6 Binary8 Binary3 Binary2 pipeline3 Binary9

Validate Debug Add trigger

Iteration & conditionals

Filter

Get Metadata Filter

Get Metadata1 Filter1

Properties

General Related

Name * pipeline3

Description

Annotations

New

General Settings User properties

Items @activity('Get Metadata1').output.chil...

Condition @endswith(item().name,'csv')

```
graph LR; GetMetadata[Get Metadata1] --> Filter1[Filter1];
```

METADATA

Microsoft Azure | Data Factory ▶ Adminadmin

Search

Validate all Publish all 2

Binary7 Binary6 Binary8 Binary3 Binary2 pipeline3 Binary9

Activities Validate Debug Add trigger

Trigger debug run of the current pipeline

Get Metadata Filter

Get Metadata1 Filter1

Properties General Related

Name * pipeline3

Description

Annotations New

Parameters Variables Settings Output

Pipeline run ID: 28855fe8-f2bd-4cb2-b178-c54bb99d3a1b View debug run consumption

Name	Type	Run start	Duration	Status
Filter1	Filter	2022-05-20T19:13:40.012	00:00:01	Succeeded
Get Metadata1	Get Metadata	2022-05-20T19:13:36.005	00:00:03	Succeeded

METADATA

Output

 Copy to clipboard

```
{  
  "ItemsCount": 6,  
  "FilteredItemsCount": 3,  
  "Value": [  
    {  
      "name": "emp.csv",  
      "type": "File"  
    },  
    {  
      "name": "pima-indians-diabetes.csv",  
      "type": "File"  
    },  
    {  
      "name": "salary.csv",  
      "type": "File"  
    }  
  ]  
}
```



METADATA

Microsoft Azure | Data Factory > Adminadmin

Search

Data Factory Validate all Publish all 3

Binary8 Binary3 Binary2 pipeline3 Binary9 pipeline4 pipeline5

Validate Debug Add trigger

Until Until1 Activities 2 activities

Properties General Related

Name * pipeline

Description

Annotations New

Parameters Variables Settings Output

New Delete

Name	Type	Default value
flag	String	false

The screenshot shows the Microsoft Azure Data Factory interface. On the left, there's a navigation bar with 'Data Factory' and 'Adminadmin'. The main area displays a pipeline named 'pipeline5' which has an 'Until' activity. The 'Until' activity contains another activity named 'Until1'. Below the pipeline, there's a 'Variables' section where a variable named 'pipeline' is defined. This variable has a type of 'String' and a default value of 'false'. There are also tabs for 'Parameters', 'Settings', and 'Output'.

METADATA

Microsoft Azure | Data Factory > Adminadmin

Search Publish all 3

Data Factory Binary8 Binary3 Binary2 pipeline3

Validate all Debug Add trigger

Until Until1 Activities 2 activities

General Settings Activities (2) User properties

Expression @bool(variables('flag'))

Timeout 7.00:00:00

Add dynamic content

```
@bool(variables('flag'))
```

Clear contents

Add dynamic content above using any combination of [expressions](#), [functions](#) and [system variables](#). Click any of the available System variables or Functions below to add them directly:

Filter system variables and functions...

> System variables

> Functions

< Variables

flag

> Activity click to insert expression

OK Cancel

The screenshot shows the Microsoft Azure Data Factory interface. On the left, there's a navigation pane with icons for Home, Data Factory, Pipelines, Triggers, and Metrics. The main area shows a pipeline named 'pipeline3' with three stages: 'Binary8', 'Binary3', and 'Binary2'. Below the stages, there are 'Validate', 'Debug', and 'Add trigger' buttons. In the center, there's a 'Until' activity with one child activity named 'Until1'. The 'Settings' tab is active, showing the expression '@bool(variables('flag'))' for the 'Expression' field and '7.00:00:00' for 'Timeout'. To the right, a 'Dynamic Content' dialog is open, displaying the same expression. The 'Variables' section lists 'flag'. At the bottom of the dialog are 'OK' and 'Cancel' buttons.

METADATA

Microsoft Azure | Data Factory > Adminadmin

Search

Data Factory Validate all Publish all 3

Binary8 Binary3 Binary2 pipeline3 Binary9 pipeline4 pipeline5

Validate Debug Add trigger

pipeline5 > Until1

The screenshot shows a Microsoft Azure Data Factory pipeline editor. The pipeline consists of two main activities: 'Get Metadata1' and 'If Condition1'. The 'Get Metadata1' activity is connected to the 'If Condition1' activity. The 'If Condition1' activity has two branches: 'True' and 'False', each containing one activity. The 'Properties' pane on the right shows the pipeline is named 'pipeline5'. The 'Settings' tab in the pipeline editor is selected, displaying filter settings for 'Exists' under 'Filter by last modified'.

Properties

General Related

Name * pipeline5

Description

Annotations

+ New

General Settings User properties

Exists

Start time Add dynamic content

Filter by last modified ⓘ

Child items

Exists

Item name

Item type

time (UTC)

METADATA

Microsoft Azure | Data Factory > Adminadmin

Search

Validate all Publish all (3)

Data Factory Binary8 Binary3 Binary2 pipeline3

Validate Debug Add trigger

pipeline5 > Until1

Get Metadata Get Metadata1

If Condition If Condition1

True 1 activities
False 1 activities

Add dynamic content

```
@bool(activity('Get Metadata1').output.exists)
```

Clear contents

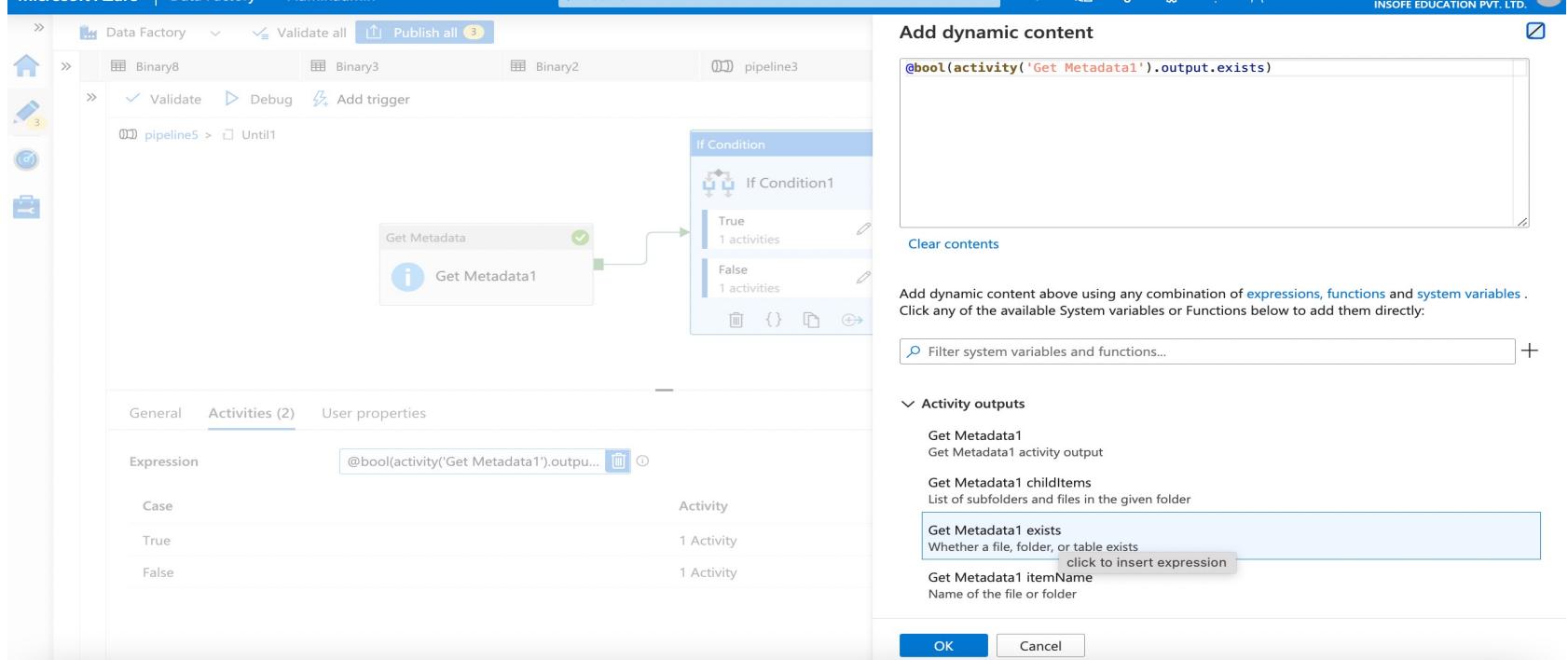
Add dynamic content above using any combination of [expressions](#), [functions](#) and [system variables](#). Click any of the available System variables or Functions below to add them directly:

Filter system variables and functions...

Activity outputs

- Get Metadata1
Get Metadata1 activity output
- Get Metadata1 childItems
List of subfolders and files in the given folder
- Get Metadata1 exists
Whether a file, folder, or table exists
click to insert expression
- Get Metadata1 itemName
Name of the file or folder

OK Cancel



METADATA

Microsoft Azure | Data Factory > Adminadmin

Search

Data Factory Validate all Publish all 3

Binary8 Binary3 Binary2 pipeline3 Binary9 pipeline4 pipeline5

Validate Debug Add trigger

pipeline5 > Until1 > If Condition1 > True activities

Set variable

(x) Set variable1

General Variables User properties

Name * flag

Value * true

Properties

General Related

Name * pipeline5

Description

Annotations

New

```
graph LR; pipeline5[Pipeline 5] --> Until1[Until1]; Until1 --> IfCondition1{If Condition1}; IfCondition1 -- True --> SetVariable1[Set variable1];
```

METADATA

Microsoft Azure | Data Factory > Adminadmin

Search

Data Factory Validate all Publish all 3

Binary8 Binary3 Binary2 pipeline3 Binary9 pipeline4 pipeline5

Validate Debug Add trigger

pipeline5 > Until1 > If Condition1 > False activities

Wait Wait1

Properties

General Related

Name * pipeline5

Description

Annotations + New

General Settings User properties

Wait time in seconds * 10

The screenshot shows the Microsoft Azure Data Factory pipeline editor. A 'Wait' activity named 'Wait1' is selected, with a wait time of 10 seconds. The pipeline structure shows 'Until1' followed by 'If Condition1' and then 'False activities'. The pipeline is named 'pipeline5'. The Properties panel on the right shows the general settings for the pipeline, including its name ('pipeline5') and a description field.

METADATA

Microsoft Azure | Data Factory > Adminadmin

Search

Validate all Publish all 3

Data Factory Binary8 Binary3 Binary2 pipeline3 Binary9 pipeline4 pipeline5

Validate Debug Add trigger

Trigger debug run of the current pipeline

Until Until1 Activities 2 activities

Properties

General Related

Name * pipeline5

Description

Annotations + New

Parameters Variables Settings Output

Pipeline run ID: 311c8240-6902-4452-964d-b9c781d0cdf0

View debug run consumption

Name	Type	Run start	Duration	Status	Integration
Set variable1	Set variable	2022-05-20T19:42:05.3260	00:00:01	Succeeded	
If Condition1	If Condition	2022-05-20T19:42:05.0916	00:00:01	Succeeded	
Get Metadata1	Get Metadata	2022-05-20T19:41:51.4012	00:00:13	Succeeded	AutoResol
Until1	Until	2022-05-20T19:41:50.6981	00:00:18	Succeeded	

METADATA

Microsoft Azure | Data Factory > Adminadmin

Search

Validate all Publish all 3

Binary8 Binary3 Binary2 pipeline3 Binary9 pipeline4 pipeline5

Validate Debug Add trigger

Properties

General Related

Name * pipeline5

Description

Annotations + New

Output

```
Copy to clipboard
{
  "name": "flag",
  "value": "true"
}
```

Until Until1 Activities 2 activities

	in start	Duration	Status	Integration
Set variable1	Set variable	2022-05-20T19:42:05.32604	00:00:01	Succeeded
If Condition1	If Condition	2022-05-20T19:42:05.09167	00:00:01	Succeeded
Get Metadata1	Get Metadata	2022-05-20T19:41:51.40126	00:00:13	Succeeded
Until1	Until	2022-05-20T19:41:50.69819	00:00:18	Succeeded

View debug run consumption

Annotations + New

ALERT

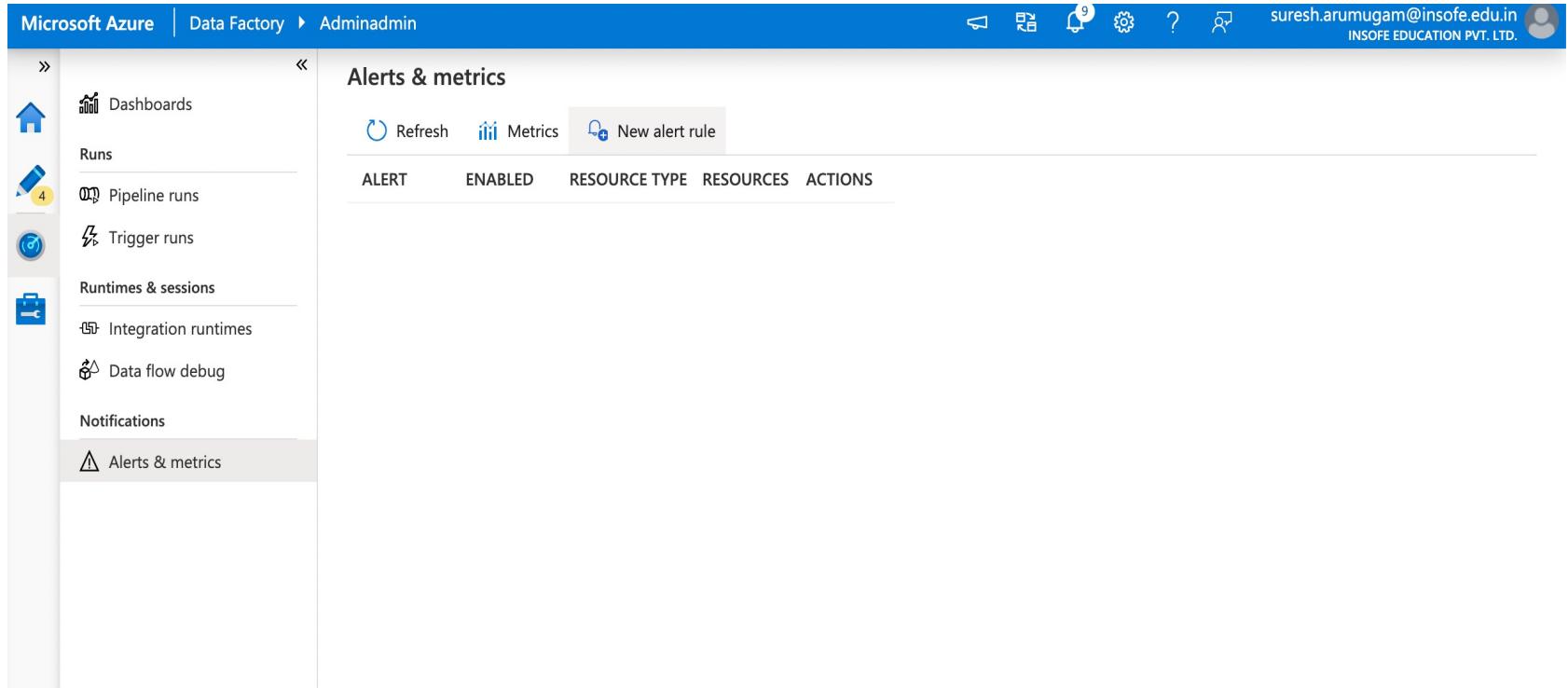
Microsoft Azure | Data Factory ▶ Adminadmin

» « Alerts & metrics

Refresh Metrics New alert rule

ALERT ENABLED RESOURCE TYPE RESOURCES ACTIONS

Dashboards
Runs
Pipeline runs (4)
Trigger runs
Runtimes & sessions
Integration runtimes
Data flow debug
Notifications
Alerts & metrics

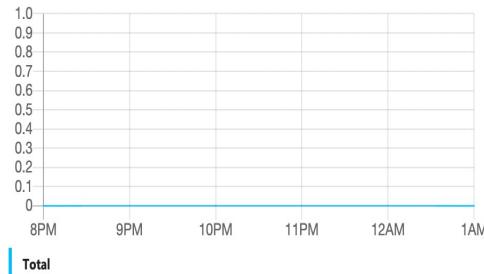


ALERT

Configure alert logic

Show history

Over the last 6 hours



Selecting the dimension values will help you filter to the right time series.

Dimension	Values
Name	<input type="button" value="Select a value"/> <input type="button" value="▼"/>
FailureType	<input type="button" value="Select a value"/> <input type="button" value="▼"/>

Alert logic

Condition *

Greater than

Time aggregation *

Total

Threshold count *

0

Evaluate based on

Period *

Over the last 1 minutes

Frequency *

Every 1 minute

Add criteria

Back

Cancel

ALERT

Configure notification

Notify your team via email and text messages or automate actions using webhooks, runbooks, functions logic apps or integrating with external ITSM solutions.

Create new Use existing

Action group name *

DataEngineers

Short name *

DE

Notifications *

+ Add notification

Add action group

Cancel

Add notification

Action name *

NewAction

Select which notifications you'd like to receive

Email

suresh.arumugam@insofe.edu.in

SMS

Country code

1

Phone number *

9597490540

Carrier charges may apply.

Azure app push notifications

Enter your email used to log into your Azure account. [Learn about connecting to your Azure resources using the Azure app.](#)

email@example.com

Voice

Country code

Phone number *

Cancel

Add notification

ALERT

Microsoft Azure | Data Factory > Admin/admin

Alerts & metrics

REFRESH METRICS NEW ALERT RULE

ALERT ENABLED RESOURCE TYPE RESOURCES

PipelineFailu On Pipeline

Dashboard Runs Pipeline runs Trigger runs Runtimes & sessions Integration runtimes Data flow debug Notifications Alerts & metrics

Edit alert rule

Search: sev0

Target criteria Actions

Whenever Pipeline Failed Runs metric is Greater than 1

+ Add criteria

There will be a monthly rate for the configured criteria. Learn more about [Pricing](#)

Notifications Action group type Actions

DataEngineers 1 Email, 1 SMS

+ Configure notification

Enable rule upon creation

On

Update alert rule Cancel

The screenshot shows the Microsoft Azure Data Factory interface with the 'Alerts & metrics' section selected. On the left, there's a sidebar with various navigation options like Dashboards, Runs, Pipeline runs, etc. The main area displays an alert rule for 'PipelineFailu' with the 'On' toggle switch enabled. A modal window titled 'Edit alert rule' is open, showing the current target criteria: 'Whenever Pipeline Failed Runs metric is Greater than 1'. It also lists a notification for 'DataEngineers' using '1 Email, 1 SMS'. There are buttons for 'Update alert rule' and 'Cancel' at the bottom of the modal.

ALERT

Microsoft Azure Search resources, services, and docs (G+/-) Home > Subscriptions > Free Trial

Subscriptions

INSOFE Education Pvt. Ltd. (insofe.edu.in)

+ Add Manage Policies ...

Search... Subscriptions == global filter

My role == all Status == all + Add filter

Showing 1 to 1 of 1

Subscription name	...
Free Trial	...

Free Trial | Resource providers

Subscription

Search (Cmd+/) Register Unregister Refresh Feedback

ins

Provider	Status
microsoft.insights	✓ Registered
Microsoft.ContainerInstance	✗ NotRegistered
Microsoft.D365CustomerInsights	✗ NotRegistered
Microsoft.DigitalTwins	✗ NotRegistered
Microsoft.HDInsight	✗ NotRegistered
Microsoft.OperationalInsights	✗ NotRegistered
Microsoft.PolicyInsights	✗ NotRegistered
Microsoft.SecurityInsights	✗ NotRegistered
Microsoft.TimeSeriesInsights	✗ NotRegistered

Support + troubleshooting

ALERT

The screenshot shows two windows side-by-side. On the left is the Microsoft Azure Data Factory 'Alerts & metrics' page. The navigation bar at the top says 'Microsoft Azure | Data Factory > Adminadmin'. The left sidebar has several items: Dashboards, Runs, Pipeline runs (with 4), Trigger runs, Runtimes & sessions, Integration runtimes, Data flow debug, Notifications, and Alerts & metrics (which is selected and highlighted in grey). The main area is titled 'Alerts & metrics' and shows a table with one row:

ALERT	ENABLED	RESOURCE TYPE	RESOURCES	ACTIONS
PipelineFailu	<input checked="" type="checkbox"/> On	Pipeline		

On the right is an Outlook email window. The subject is '[REDACTED] - Suresh Arumugam - Outlook'. The email body contains the following text:

You're now in the DE action group

Some content in this message has been blocked because the sender isn't in your Safe senders list. [I trust content from azure-noreply@microsoft.com.](#) | [Show blocked content](#)

Microsoft Azure <azure-noreply@microsoft.com>
To: Suresh Arumugam
Sat 5/21/2022 2:16 AM
From: Microsoft Azure

You've been added to an Azure Monitor action group

You are now in the DE action group and will receive notifications sent to the group.
[View details on Azure Monitor action groups >](#)

Account information

Subscription ID: 8575e569-702b-4b40-bb76-814f1a213718
Resource group name: firstADF
Action group name: DataEngineers

Q&A ?

*Thank
You*

