

- Pipeline → adls2sqlserver using azure synapse analytics(dataflow)

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

letshuntvarthya@outloo...
DEFAULT DIRECTORY (LETSHUNT...)

Azure services

Create a resource | Resource groups | Cost Management | Azure AI services | Subscriptions | Quickstart Center | Kubernetes services | Virtual machines | App Services | More services

Resources

Recent | Favorite

Name	Type	Last Viewed
sqldb	SQL database	3 hours ago
projects_rg	Resource group	3 hours ago
addlisa	Storage account	4 hours ago
blobbsa	Storage account	4 hours ago
projects-datafactory	Data factory (V2)	9 hours ago
Free Trial	Subscription	4 days ago

See all

Activate Windows
Go to Settings to activate Windows.

https://portal.azure.com/#create/hub

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

letshuntvarthya@outloo...
DEFAULT DIRECTORY (LETSHUNT...)

Create a resource

Get Started | Search services and marketplace | Getting Started? Try our Quickstart center

Recently created

Categories

AI + Machine Learning | **Analytics** | Blockchain | Compute | Containers | Databases | Developer Tools | DevOps | Identity | Integration | Internet of Things | IT & Management Tools | Media

Popular Azure services

See more in All services

- Data Factory | Create | Docs | MS Learn
- Azure Synapse Analytics** | Create | Docs | MS Learn
- Azure Machine Learning | Create | Docs
- Event Hubs | Create | Docs | MS Learn
- Azure Databricks | Create | Docs | MS Learn
- Data Lake Storage Gen1 | Create | Docs | MS Learn
- Event Grid System Topic

Popular Marketplace products

See more in Marketplace

- CloudOps - Monitoring-as-a-Service | Create | Learn more
- MongoDB Atlas (pay-as-you-go) | Set up + subscribe | Learn more
- Azure Cost Management plan | Create | Learn more
- Azure SQL Edge Developer | Create | Learn more
- Data Science Virtual Machine - Ubuntu 20.04 | Create | Learn more
- azure_sen_managed_siem_prem | Create | Learn more

Activate Windows
Go to Settings to activate Windows.

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

letshuntvarthya@outloo...
DEFAULT DIRECTORY (LETSHUNT...)

Create Synapse workspace

* Basics | * Security | Networking | Tags | Review + create

Create a Synapse workspace to develop an enterprise analytics solution in just a few clicks.

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all of your resources.

Subscription * | Free Trial

Resource group * | projects_rg | Create new

Managed resource group | Enter managed resource group name

Workspace details

Name your workspace, select a location, and choose a primary Data Lake Storage Gen2 file system to serve as the default location for logs and job output.

Workspace name * | synapsess-ws

Region * | East US

Select Data Lake Storage Gen2 * | From subscription | Manually via URL

Account name * | (New) synapsestds | Create new

File system name * | Create new

Review + create | < Previous | Next: Security >

Activate Windows
Go to Settings to activate Windows.

Microsoft Azure

Upgrade

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

letshuntvarthya@outloo...
DEFAULT DIRECTORY (LETSHUNT...)

Home > Create a resource >

Create Synapse workspace

* Basics * Security Networking Tags Review + create

Create a Synapse workspace to develop an enterprise analytics solution in just a few clicks.

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all of your resources.

Subscription * Free Trial

Resource group * projects_rg
[Create new](#)

Managed resource group Enter managed resource group name

Workspace details

Name your workspace, select a location, and choose a primary Data Lake Storage Gen2 file system to serve as the default location for logs and job output.

Workspace name * synapses-ws

Region * East US

Select Data Lake Storage Gen2 * ☒ From subscription ☐ Manually via URL

Account name * (New) synapseadls
[Create new](#)

File system name * (New) datasets
[Create new](#)

Review + create

< Previous

Next: Security >

Activate Windows
Go to Settings to activate Windows.

Microsoft Azure

Upgrade

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

letshuntvarthya@outloo...
DEFAULT DIRECTORY (LETSHUNT...)

Home > Create a resource >

Create Synapse workspace

* Basics * Security Networking Tags Review + create

Configure security options for your workspace.

Authentication

Choose the authentication method for access to workspace resources such as SQL pools. The authentication method can be changed later on. [Learn more](#)

Authentication method ☒ Use both local and Microsoft Entra ID authentication
☐ Use only Microsoft Entra ID authentication

SQL Server admin login * sqladminuser

SQL Password

Confirm password

System assigned managed identity permission

Select to grant the workspace network access to the Data Lake Storage Gen2 account using the workspace system identity. [Learn more](#)

☐ Allow network access to Data Lake Storage Gen2 account.

The selected Data Lake Storage Gen2 account does not restrict network access using any network access rules, or you selected a storage account manually via URL under Basics tab. [Learn more](#)

Workspace encryption

Review + create

< Previous

Next: Networking >

Activate Windows
Go to Settings to activate Windows.

Microsoft Azure

Upgrade

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

letshuntvarthya@outloo...
DEFAULT DIRECTORY (LETSHUNT...)

Home > Create a resource >

Create Synapse workspace

* Basics * Security Networking Tags Review + create

Configure networking options for your workspace.

Managed virtual network

Choose whether to set up a dedicated Azure Synapse-managed virtual network for your workspace. [Learn more](#)

Managed virtual network ☐ Enable ☒ Disable

To control public network access to your Synapse workspace, you must enable managed virtual network.

Firewall rules

Azure Synapse Studio and other client tools will only connect to the workspace endpoints if this setting is selected. Connections from specific IP addresses or all Azure services can be allowed or disallowed after the workspace is provisioned.

Allow connections from all IP addresses to your workspace's endpoints. You can restrict these permissions to just Azure datacenter IP addresses and/or specific IP address ranges after creating the workspace.

☒ Allow connections from all IP addresses

Encrypted connections

Review + create

< Previous

Next: Tags >

Activate Windows
Go to Settings to activate Windows.

Microsoft Azure

Upgrade

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

letshuntvarthya@outloo...
DEFAULT DIRECTORY (LETSHUNT...)

Home > Create a resource >

Create Synapse workspace

* Basics * Security Networking Tags Review + create

Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. [learn more](#)

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name ⓘ

Value ⓘ

Resource

:

Synapse workspace

Review + create

< Previous

Next: Review + create >

Activate Windows
Go to Settings to activate Windows.

Microsoft Azure

Upgrade

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

letshuntvarthya@outloo...
DEFAULT DIRECTORY (LETSHUNT...)

Home > Create a resource >

Create Synapse workspace

✓ Validation succeeded

* Basics * Security Networking Tags Review + create

Product Details

Azure Synapse Analytics workspace by Microsoft
[Terms of use](#) | [Privacy policy](#)

Serverless SQL est. cost/TB ⓘ
415.97 INR

Terms

By clicking Create, I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above, (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. For additional details see [Azure Marketplace Terms](#).

Basics

SubscriptionFree Trial

Resource groupprojects_rg

RegionEast US

Create

< Previous

Next >

Download a template for automation

Activate Windows
Go to Settings to activate Windows.

Microsoft Azure

Upgrade

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

letshuntvarthya@outloo...
DEFAULT DIRECTORY (LETSHUNT...)

Home >

Microsoft.Azure.SynapseAnalytics-20240528214258 | Overview

Deployment

Search

Delete

Cancel

Redeploy

Download

Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name : Microsoft.Azure.SynapseAnalytics-20240528214258Start time : 5/28/2024, 10:03:44 PM

Subscription : Free TrialCorrelation ID : fdfea5b3-02e8-4159-953d-0de47167c348

Resource group : projects_rg

Deployment details

Next steps

Go to resource group

Give feedback

Tell us about your experience with deployment

Cost management

Get notified to stay within your budget and prevent unexpected charges on your bill.
[Set up cost alerts >](#)

Microsoft Defender for Cloud

Secure your apps and infrastructure
[Go to Microsoft Defender for Cloud >](#)

Free Microsoft tutorials

[Start learning today >](#)

Work with an expert

Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.
[Find an Azure expert](#)

Activate Windows
Go to Settings to activate Windows.

Home > Microsoft.Azure.SynapseAnalytics-20240528214258 | Overview > projects_rg > synapseseadls

synapseseadls | Containers

Storage account

Search

+ Container + Change access level + Restore containers + Refresh + Delete + Give feedback

Search containers by prefix

Show deleted containers

Name	Last modified	Anonymous access level	Lease state
container	5/28/2024, 10:09:56 PM	Private	Available
datasets	5/28/2024, 10:04:14 PM	Private	Available

Microsoft Azure Upgrade

Search resources, services, and docs (G+)

Home > Microsoft.Azure.SynapseAnalytics-20240528214258 | Overview > projects_rg > synapseseadls | Containers >

datasets

Container

Search

+ Upload + Add Directory + Refresh + Rename + Delete + Change tier + Acquire

Authentication method: Access key (Switch to Microsoft Entra user account)

Location: datasets

Search blobs by prefix (case-sensitive)

1 file(s) selected: 2666141-Bike_Data (1).csv

Drag and drop files here or Browse for files

Overwrite if files already exist

Advanced

Upload

Give feedback

Microsoft Azure Upgrade

Search resources, services, and docs (G+)

Home > Microsoft.Azure.SynapseAnalytics-20240528214258 | Overview > projects_rg >

synapsesws

Synapse workspace

Search

+ New dedicated SQL pool + New Apache Spark pool + New Data Explorer pool (preview) + Refresh + Reset SQL admin password + Delete

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Microsoft Entra ID

Properties

Locks

Analytics pools

SQL pools

Apache Spark pools

Data Explorer pools (preview)

Security

Encryption

Networking

Identity

Essentials

Resource group (move) : projects_rg

Status : Succeeded

Location : East US

Subscription (move) : Free Trial

Subscription ID : c92e5287-784e-4a20-9e6c-8549947f2ee6

Managed virtual network : No

Managed Identity object ... : ef682be3-454e-4f06-a2fb-42081af16316

Workspace web URL : https://web.azure.synapse.net/workspace=%2fsubscriptions%2f...

Tags (edit) : Add tags

Networking : Show firewall settings

Primary ADLS Gen2 acco... : https://synapseseadls.dfs.core.windows.net

Primary ADLS Gen2 file s... : datasets

SQL admin username : sqladminuser

SQL Microsoft Entra admin : live.com#letshuntvarthya@outlook.com

Dedicated SQL endpoint : synapsesws.sql.azure.synapse.net

Serverless SQL endpoint : synapsesws-ondemand.sql.azure.synapse.net

Development endpoint : https://synapsesws-dev.azure.synapse.net

Getting started

Open Synapse Studio

Start building your fully-integrated analytics solution and unlock new insights.

Open

Read documentation

Learn how to be productive quickly. Explore concepts, tutorials, and samples.

Learn more

Analytics pools

Search to filter items...

Activate Windows

Go to Settings to activate Windows.

Microsoft Azure | Synapse Analytics | synapsesws

We use optional cookies to provide a better experience. Learn more

Accept Reject More options

Synapse live Validate all Publish all

Analytics pools

SQL pools

Apache Spark pools

Data Explorer pools (prev...

External connections

Linked services

Microsoft Purview

Integration

Triggers

SQL pools

The serverless SQL pool, Built-in, is immediately available for your workspace. Dedicated SQL pools can be configured to adapt to team or organizational requirements and constraints. Learn more

+ New Refresh

Filter by name

Showing 1-1 of 1 items (1 Serverless, 0 Dedicated)

Name	Type	Status	Size
Built-in	Serverless	Online	Auto

Microsoft Azure | Synapse Analytics | synapses-ws

We use optional cookies to provide a better experience

New dedicated SQL pool

Basics * Additional settings * Tags Review + create

Create a dedicated SQL pool with your preferred configurations. Complete the Basics tab then go to Review + Create to provision with smart defaults. [Learn more](#)

Dedicated SQL pool details

Name your dedicated SQL pool and choose its initial settings.

Dedicated SQL pool name *

Performance level **DW300c**

Estimated price **Est. cost per hour 376.87 INR**
[View pricing details](#)

[Review + create](#) [Next: Additional settings >](#)

Activate Windows
Go to Settings to activate Windows. [Cancel](#)

Microsoft Azure | Synapse Analytics | synapses-ws

We use optional cookies to provide a better experience

New dedicated SQL pool

Basics * Additional settings * Tags **Review + create**

Validation succeeded.

Product details

Azure Synapse Analytics dedicated SQL pool by Microsoft
[Terms of use](#) | [Privacy policy](#) **Est. cost per hour 376.87 INR**
[View pricing details](#)

Terms

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. For additional details see [Azure Marketplace Terms](#)

Data source

Dedicated SQL pool name dedicatedsql
Performance level DW300c

Additional settings

[Create](#) [< Previous](#) [Download template for automation](#)

Activate Windows
Go to Settings to activate Windows. [Cancel](#)

Microsoft Azure | Synapse Analytics | synapses-ws


We use optional cookies to provide a better experience

Apache Spark pool

Apache Spark pools can be tuned to run different kinds of Apache Spark workloads using specific configuration libraries, permissions, etc. [Learn more](#)

[New](#) [Refresh](#)

Showing 0-0 of 0 item

Name	Node size family	Size
<div> No items to show Try changing your filter or create new Apache Spark pool New Apache Spark pool</div>		

Activate Windows
Go to Settings to activate Windows.

New Apache Spark pool

Basics • Additional settings • Tags Review + create

Create an Synapse Analytics Apache Spark pool with your preferred configurations. Complete the Basics tab then go to Review + Create to provision with smart defaults, or visit each tab to customize.

Apache Spark pool details

Name your Apache Spark pool and choose its initial settings.

Apache Spark pool name * 1 → sparkws

Isolated compute * ② ☐ Enabled ☒ Disabled

Node size family * Memory Optimized

Node size * 2 → Small (4 vCores / 32 GB)

Autoscale * ④ ☒ Enabled ☐ Disabled

Number of nodes * 4 → 3 ③ 8

Estimated price ⑤ Est. cost per hour: 137.77 to 367.39 INR. [View pricing details](#)

Dynamically allocate executors * ☐ Enabled ☒ Disabled

[Review + create](#) Next: Additional settings >

Activate Windows. Go to Settings to activate Windows. [Cancel](#)

Click create

Data

Workspace 3 Linked 2

Filter resources by name

- Azure Data Lake Storage Gen2 2
- synapses-ws (Primary - synapse...
- datasets (Primary) 4
- container 5
- (Attached Containers)

Database1 • datasets

Other users in your workspace may have access to modify this item. Do not use this item unless you trust all users who may have access to the workspace.

New SQL script New notebook New data flow New integration dataset Upload More

← → datasets

Name	Last Modified	Content Type	Size
synapse	28/5/2024, 10:21:06 pm	Folder	
2666141-Bike_Data (1).csv	28/5/2024, 10:12:59 pm		6.6 MB

Preview

- New SQL script > Select TOP 100 rows 7
- New notebook > Create external table
- New data flow
- New integration dataset
- Manage access...
- Rename...
- Download
- Delete
- Properties...

Showing 1 to 2 of 2 cached item

Activate Windows. Go to Settings to activate Windows.

Database1 • datasets SQL script 1

Other users in your workspace may have access to modify this item. Do not use this item unless you trust all users who may have access to the workspace.

Run Undo Publish Query plan Connect to Built-in Use database master

```

1 -- This is auto-generated code
2 SELECT
3     TOP 100 *
4 FROM
5     OPENROWSET(
6         BULK 'https://synapseadls.dfs.core.windows.net/datasets/2666141-Bike_Data (1).csv',
7         FORMAT = 'CSV',
8         PARSE_VERSION = '2.0'
9     ) AS [result]

```

Results Messages

View Table Chart Export results

Search

C1	C2	C3	C4	C5	C6	C7	C8
Region	Country	Customer	Business Segm...	Category	Model	Color	SalesDate
North America	United States	Advanced Bike ...	Components	Road Frames	LL Road Frame	Red	4/1/2020
North America	United States	Central Discou...	Bikes	Mountain Bikes	Mountain-100	Silver	4/1/2020
North America	United States	Leisure Sales	Clothing	Leisure	Leisure-Sleeve L...	Multi	4/1/2020

00:00:15 Query executed successfully.

Properties

General Related (0)

Name * SQL script 1

Description

Type .sql script

Size 241 bytes

Results settings per query ①

☒ First 5000 rows (default)

☐ All rows

Activate Windows. Go to Settings to activate Windows.

- We can see the data in the spark pool as well.

The screenshot shows the Synapse Data Explorer interface. On the left, the 'Data' pane shows the 'datasets' folder under 'synapsess-ws (Primary - synapsesea...)'. A green arrow points to this folder. In the main pane, the 'datasets' folder is expanded, showing a file named '2666141-Bike_Data (1).csv'. A context menu is open over this file, with green arrows pointing to the 'Load to DataFrame' and 'New Spark table' options. The file's last modified date is 28/5/2024, 10:12:59 pm, and its size is 6.6 MB.

The screenshot shows the Synapse Notebook editor. The 'Run' button is highlighted with a green arrow. The code cell contains the following Python code:

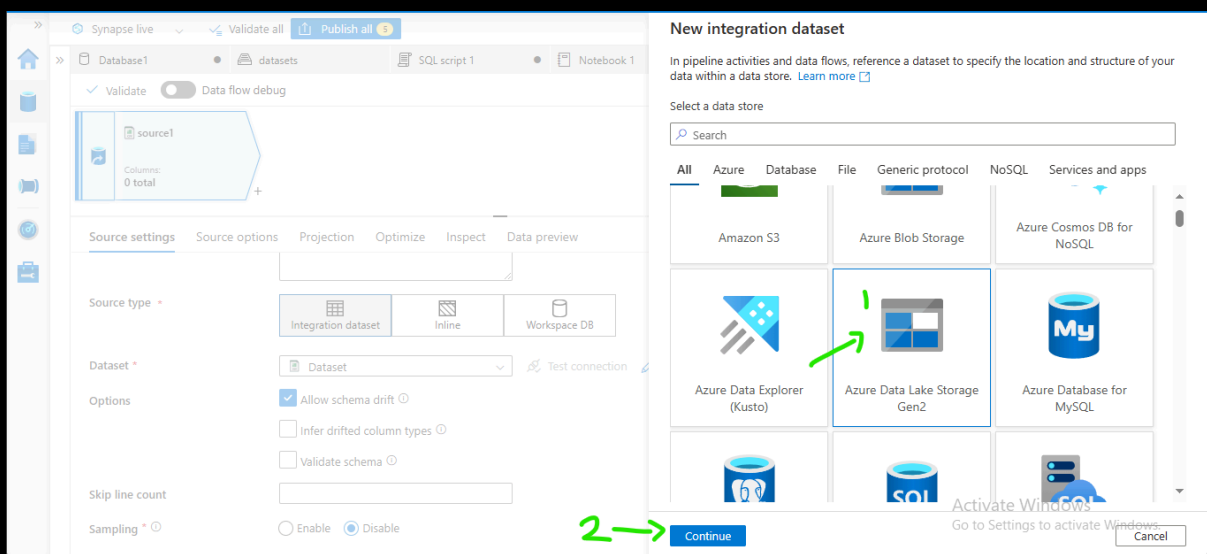
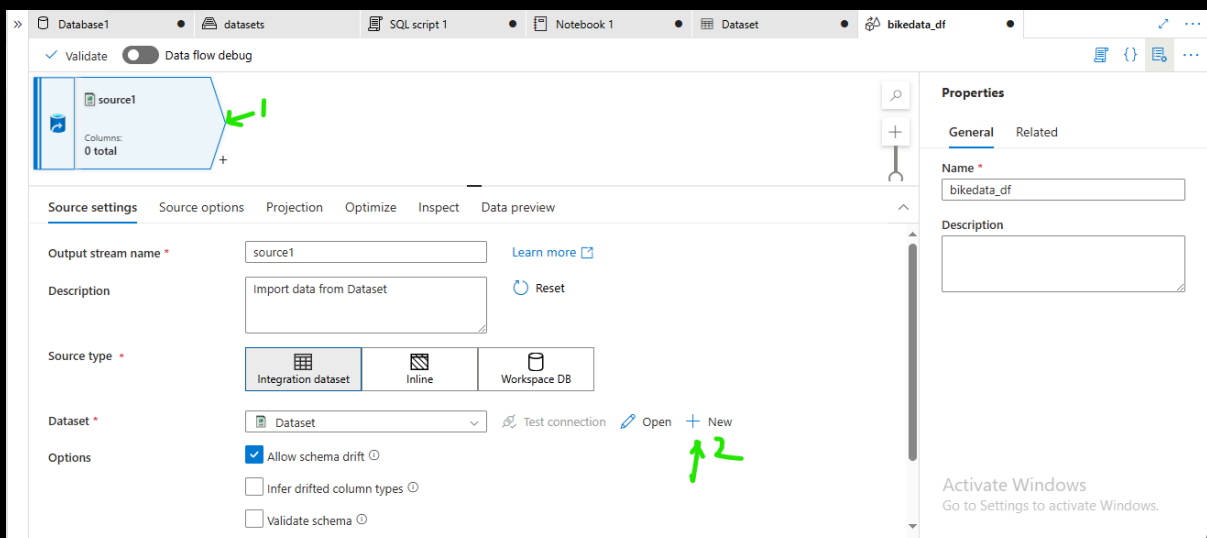
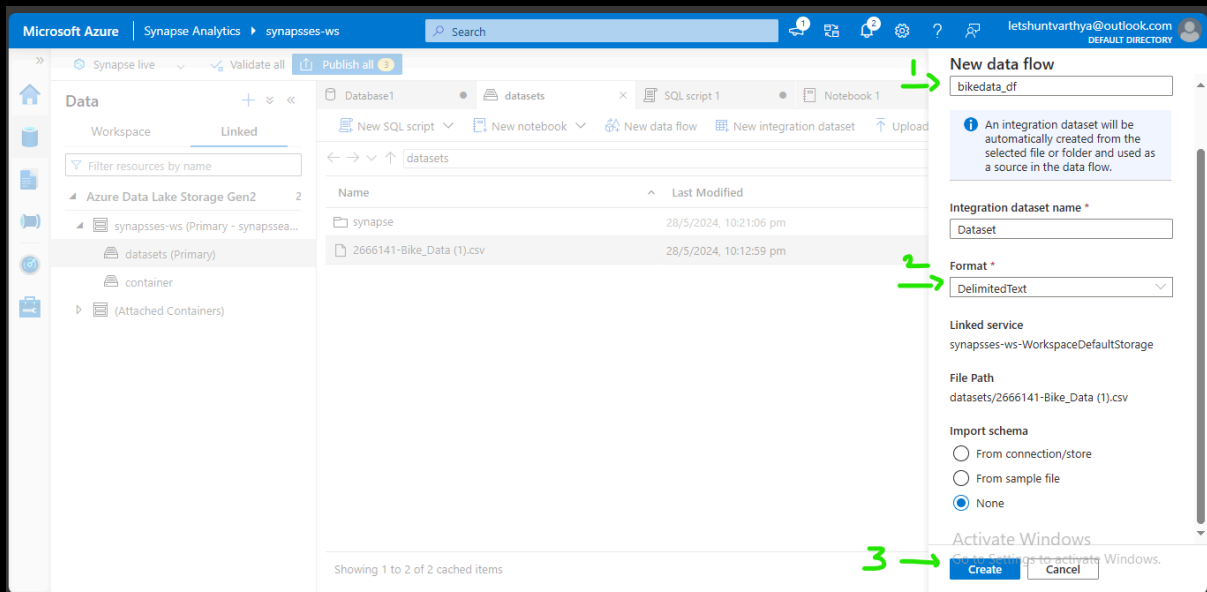
```
1 %%pyspark
2 df = spark.read.load('abfss://datasets@synapseadls.dfs.core.windows.net/2666141-Bike_Data (1).csv', format='csv'
3 ## If header exists uncomment line below
4 ##, header=True
5 )
6 display(df.limit(10))
```

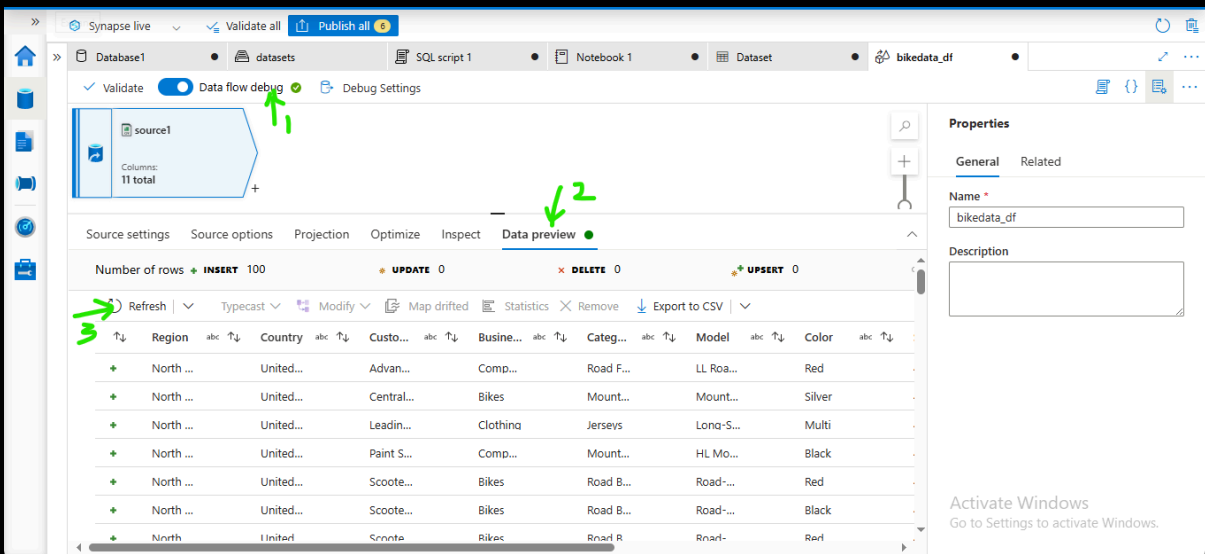
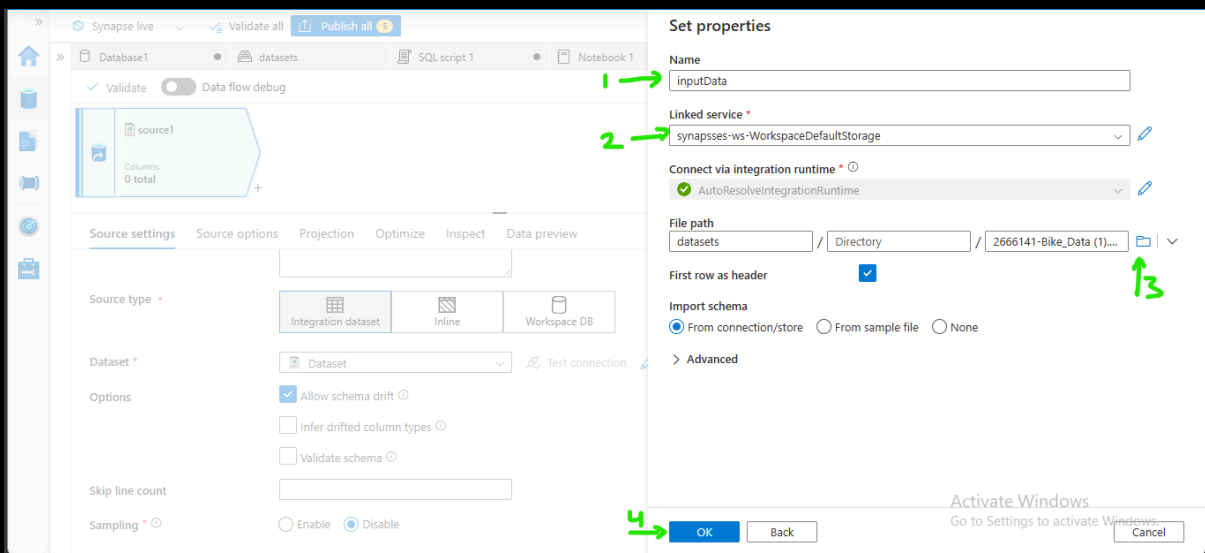
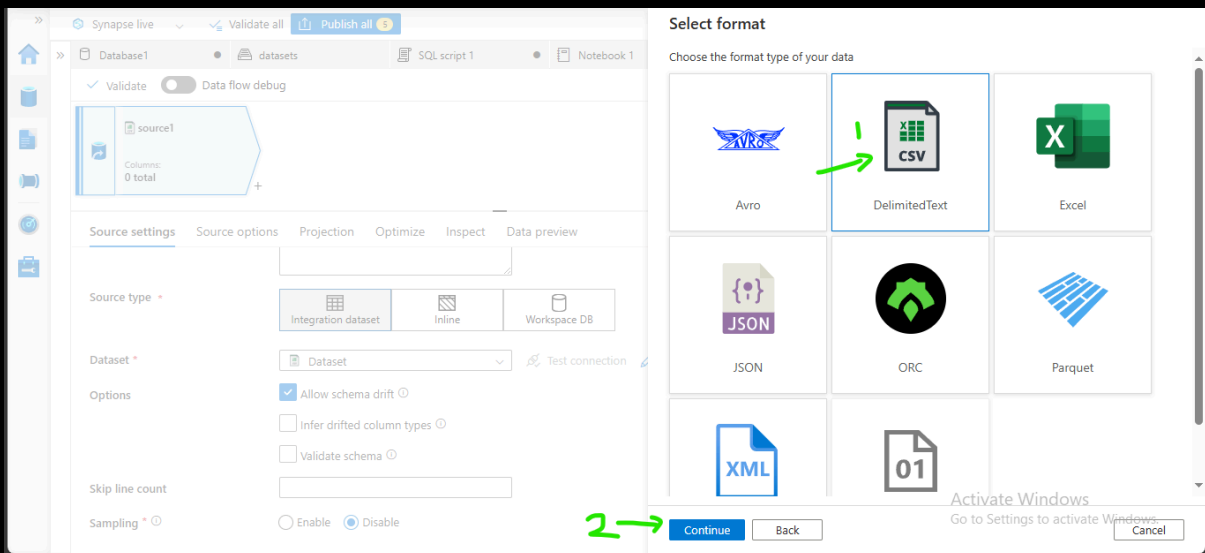
The job execution was successful. The output table shows the following data:

_c0	_c1	_c2	_c3	_c4	_c5
North America	United States	Advanced Bike Components	Components	Road Frames	LL Road
North America	United States	Central Discount Store	Bikes	Mountain Bikes	Mountai
North America	United States	Leading Sales & Repair	Clothing	Jerseys	Long-Sli
North America	United States	Paint Supply	Components	Mountain Frames	HL Mou

- Create a new dataflow

The screenshot shows the Synapse Data Explorer interface. On the left, the 'Data' pane shows the 'datasets' folder under 'synapsess-ws (Primary - synapsesea...)'. A green arrow points to this folder. In the main pane, the 'datasets' folder is expanded, showing a file named '2666141-Bike_Data (1).csv'. A context menu is open over this file, with a green arrow pointing to the 'New data flow' option. The file's last modified date is 28/5/2024, 10:12:59 pm, and its size is 6.6 MB.





Database1 datasets SQL script 1 Notebook 1 Dataset bikedata_df

Validate Data flow debug Debug Settings

source1
Columns: 11 total

Multiple inputs/outputs

Source settings Source options

Number of rows + INSERT 10

Refresh Typecast

Region abc ↑↓

North ...

North ...

North ...

North ...

North ...

North ...

North ...

Schema modifier

Derived Column ← 2

Select

Aggregate

Surrogate Key

Pivot

Data preview

DELETE 0 UPSERT 0

Statistics Remove Export to CSV

Line...	abc ↑↓	Categ...	abc ↑↓	Model	abc ↑↓	Color	abc ↑↓
1	mp...	Road F...		LL Roa...		Red	
2	es	Mount...		Mount...		Silver	
3	thing	Jerseys		Long-S...		Multi	
4	mp...	Mount...		HL Mo...		Black	
5	es	Road B...		Road...		Red	
6	es	Road B...		Road...		Black	

Properties

General Related

Name * bikedata_df

Description

Activate Windows
Go to Settings to activate Windows.

Database1 datasets SQL script 1 Notebook 1 Dataset bikedata_df input_data

Validate Data flow debug Debug Settings

source1
Import data from input_data

derivedColumn1
Columns: 13 total

Derived column's settings Optimize Inspect Data preview

Description Creating/updating the columns 'Region, Country, Customer, Business Segment, Category, Model, Color, SalesDate, ...

Incoming stream * source1

Columns * 0

+ Add Clone Delete Open expression builder

Column	Expression	
Sales ← 1	ListPrice*OrderQty ← 2	1.2 ← 3
Cost ← 4	OrderQty*UnitPrice ← 5	1.2

Properties

General Related

Name * bikedata_df

Description

Activate Windows
Go to Settings to activate Windows.

Database1 datasets SQL script 1 Notebook 1 Dataset bikedata_df input_data

Validate Data flow debug Debug Settings

source1
Import data from input_data

derivedColumn1
Columns: 13 total

Derived column's settings Optimize Inspect Data preview

Description Creating/updating the columns 'Region, Country, Customer, Business Segment, Category, Model, Color, SalesDate, ...

Incoming stream * source1

Columns * 0

+ Add Clone Delete Open expression builder

Schema modifier ← 2

Derived Column

Select

Aggregate

Surrogate Key

OrderQty 1.2

UnitPrice 1.2

Properties

General Related

Name * bikedata_df

Description

Activate Windows
Go to Settings to activate Windows.

Validate Data flow debug Debug Settings

source1 Import data from input_data

derivedColumn1 Creating/updating the columns 'Region, Country, Customer, Business Segment, Category, Model, Color, SalesDate.'

derivedColumn2 Columns: 14 total

Derived column's settings

Output stream name * derivedColumn2 [Learn more](#)

Description Creating/updating the columns 'Region, Country, Customer, Business Segment, Category, Model, Color, SalesDate.'

Incoming stream * derivedColumn1

+ Add Clone Delete Open expression builder

Columns *

Column Profit Expression Sales-Cost 12

Properties

General Related

Name * bikedata_df

Description

Activate Windows
Go to Settings to activate Windows.

Validate Data flow debug Debug Settings

source1 Import data from input_data

derivedColumn1 Creating/updating the columns 'Region, Country, Customer, Business Segment, Category, Model, Color, SalesDate.'

derivedColumn2 Columns: 14 total

Derived column's settings

Optimize Inspect Data preview

Number of rows * INSERT 100 UPDATE 0 DELETE 0 UPSERT

Refresh Typecast Modify Map drifted Statistics Remove Export to CSV

	Region	Country	Customer	Business Segment	Category	Model	Color	SalesDate
+	North...	Unite...	Advan...	Comp...	Road ...	LL Ro...	Red	2020-
+	North...	Unite...	Centr...	Bikes	Moun...	Moun...	Silver	2020-
+	North...	Unite...	Leadi...	Clothi...	Jerseys	Lonq...	Multi	2020-
+	North...	Unite...	Paint ...	Comp...	Moun...	HL M...	Black	2020-
+	North...	Unite...	Scoot...	Bikes	Road ...	Road...	Red	2020-
+	North...	Unite...	Scoot...	Bikes	Road ...	Road...	Black	2020-
+	North...	Unite...	Scoot...	Bikes	Road ...	Road...	Red	2020-

Properties

General Related

Name * bikedata_df

Description

Activate Windows
Go to Settings to activate Windows.

Validate Data flow debug Debug Settings

source1 Import data from input_data

derivedColumn1 Creating/updating the columns 'Region, Country, Customer, Business Segment, Category, Model, Color, SalesDate.'

derivedColumn2 Columns: 14 total

Derived column's settings

Optimize Inspect Data preview

Number of rows * INSERT 100 UPDATE 0 DELETE 0 UPSERT

Refresh Typecast Modify Map drifted Statistics Remove Export to CSV

	Region	Country	Customer	Business Segment	Category	Model	Color	SalesDate
+	North...	Unite...	Advan...	Comp...	Road ...	LL Ro...	Red	2020-
+	North...	Unite...	Centr...	Bikes	Moun...	Moun...	Silver	2020-
+	North...	Unite...	Leadi...	Clothi...	Jerseys	Lonq...	Multi	2020-
+	North...	Unite...	Paint ...	Comp...	Moun...	HL M...	Black	2020-
+	North...	Unite...	Scoot...	Bikes	Road ...	Road...	Red	2020-
+	North...	Unite...	Scoot...	Bikes	Road ...	Road...	Black	2020-
+	North...	Unite...	Scoot...	Bikes	Road ...	Road...	Red	2020-

Flatten Parse Stringify Row modifier Filter Sort Alter Row Assert Flowlets Flowlet Destination Sink

Properties

General Related

Name * bikedata_df

Description

Activate Windows
Go to Settings to activate Windows.

tabase1 datasets SQL script 1 Notebook 1 Dataset bikedata_df input_data

✓ Validate Data flow debug Debug Settings

source1 derivedColumn1 sink1

Import data from input_data

Creating/updating the columns
Region, Country, Customer,
Business Segment, Category,
Model, Color, SalesDate

Reference:
1
Columns:
14 total

Columns:
14 total

Properties

General Related

Name *
bikedata_df

Description

Output stream name *
sink1

Description
Add sink dataset

Incoming stream *
derivedColumn2

Sink type *
Integration dataset Inline Workspace DB Cache

Dataset *
Select... + New

Options
☒ Allow schema drift
☐ Validate schema

Activate Windows
Go to Settings to activate Windows.

Synapse live Validate all Publish all

Data Workspace Linked

Filter resources by name

Lake database 1

Database1

Tables

SQL script 1 Notebook 1 Dataset

✓ Validate Data flow debug Debug Settings

source1 derivedColumn1

Import data from input_data

Creating/updating the columns
Region, Country, Customer,
Business Segment, Category,
Model, Color, SalesDate

Add Source

Sink Settings Errors Mapping Optimize Inspect Data preview

Description
Export data to OutputData

Incoming stream *
derivedColumn2

Sink type *
Integration dataset Inline W

Dataset *
OutputData

Options
☒ Allow schema drift
☐ Validate schema

New integration dataset

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

Select a data store

Search

All Azure Database File Generic protocol NoSQL Services and apps

Azure Synapse Analytics

Dataverse (Common Data Service for Apps)

Dynamics 365

Dynamics CRM

Microsoft Fabric Lakehouse Files

Microsoft Fabric Lakehouse Table

Continue

Activate Windows
Go to Settings to activate Windows.

Synapse live Validate all Publish all

Data Workspace Linked

Filter resources by name

Lake database 1

Database1

Tables

SQL script 1 Notebook 1 Dataset

✓ Validate Data flow debug Debug Settings

source1 derivedColumn1

Import data from input_data

Creating/updating the columns
Region, Country, Customer,
Business Segment, Category,
Model, Color, SalesDate

Add Source

Sink Settings Errors Mapping Optimize Inspect Data preview

Description
Export data to OutputData

Incoming stream *
derivedColumn2

Sink type *
Integration dataset Inline W

Dataset *
OutputData

Options
☒ Allow schema drift
☐ Validate schema

Set properties

Name
output_Data

Linked service *
synapses-ws-WorkspaceDefaultSqlServer

Connect via integration runtime *
☒ AutoResolveIntegrationRuntime

Select from existing table ☐ New table

Schema and table name

Schema name
bikedata_tb

Advanced

OK Back

Activate Windows
Go to Settings to activate Windows.

Synapse live Validate all Publish all

script 1 Notebook 1 Dataset bkedata_df input_data

Data Workspace Linked

Filter resources by name

- Lake database 2
 - Database1
 - Tables
 - default
 - Tables
 - Views

Azure Synapse Analytics OutputData

Connection Schema Parameters

Linked service * synapses-ws-WorkspaceDefaultSql<...> Test connection Edit New Learn

Linked service properties

Name	Value
DBName	bkedata

Integration runtime * AutoResolveIntegrationRuntime Edit

Table schema name bkedata_tb Enter manually

Azure Synapse Analytics

This is the default linked service for this Synapse workspace. It cannot be edited.

Name * synapses-ws-WorkspaceDefaultSqlServer

Description

Connect via integration runtime * AutoResolveIntegrationRuntime

Version Recommended Legacy

Connection string Azure Key Vault

Account selection method From Azure subscription Enter manually

Azure subscription Free Trial (c92e5287-784e-4a20-9e6c-85499472eedf)

Server name * synapses-ws (Synapse workspace)

Database name * dedicatedsql

SQL pool * dedicatedsql

Activate Windows Go to Settings to activate Windows.

Close Test connection

1 → 2 → 3 → 4 →

Synapse live Validate all Publish all

script 1 Notebook 1 Dataset bkedata_df input_data

Data Workspace Linked

Filter resources by name

- Lake database 2
 - Database1
 - Tables
 - default
 - Tables
 - Views

Azure Synapse Analytics OutputData

Connection Schema Parameters

Linked service * synapses-ws-WorkspaceDefaultSql<...> Test connection Edit New Learn

Linked service properties

Name	Value
DBName	bkedata

Integration runtime * AutoResolveIntegrationRuntime Edit

Table schema name bkedata_tb Enter manually

Test connection

Please provide actual value of the parameters for linked service synapses-ws-WorkspaceDefaultSqlServer.

Name	Type	Value
DBName	String	bkedata

Activate Windows Go to Settings to activate Windows.

OK Cancel

2 →

Synapse live Validate all Publish all

script 1 Notebook 1 Dataset bkedata_df input_data

Data Workspace Linked

Filter resources by name

- Lake database 2
 - Database1
 - Tables
 - default
 - Tables
 - Views

Azure Synapse Analytics OutputData

Connection Schema Parameters

Linked service * synapses-ws-WorkspaceDefaultSql<...> Test connection Edit New Learn

Linked service properties

Name	Value
DBName	bkedata

Integration runtime * AutoResolveIntegrationRuntime Edit

Table schema name bkedata_tb Enter manually

New linked service

Name * AzureSynapseAnalytics1

Description

Connect via integration runtime * AutoResolveIntegrationRuntime

Version Recommended Legacy

Import from connection string

Account selection method From Azure subscription Enter manually

Azure subscription Free Trial (c92e5287-784e-4a20-9e6c-85499472eedf)

Server name * synapses-ws (Synapse workspace)

Database name * dedicatedsql

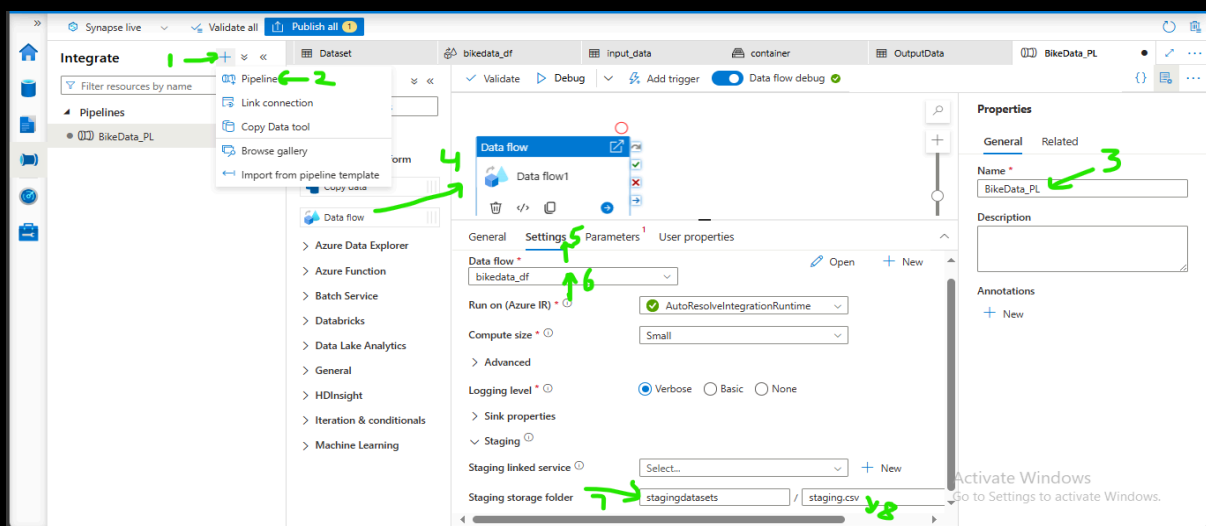
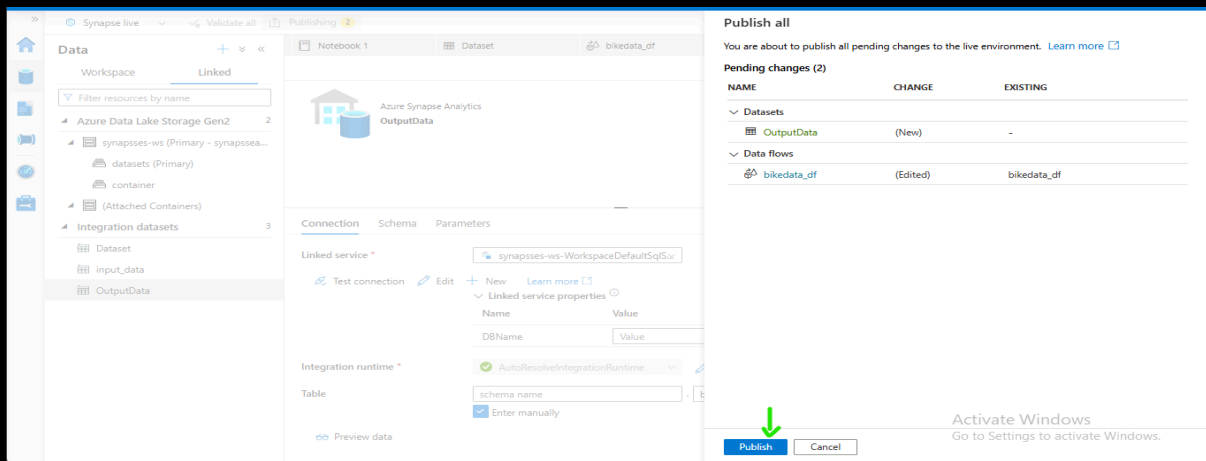
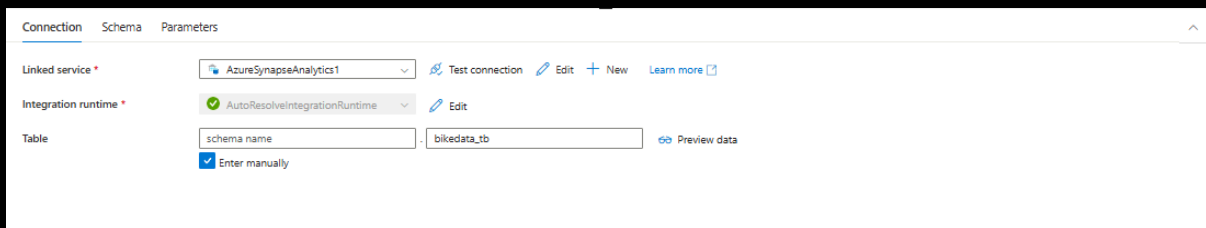
SQL pool * dedicatedsql

Authentication type * System Assigned Managed Identity

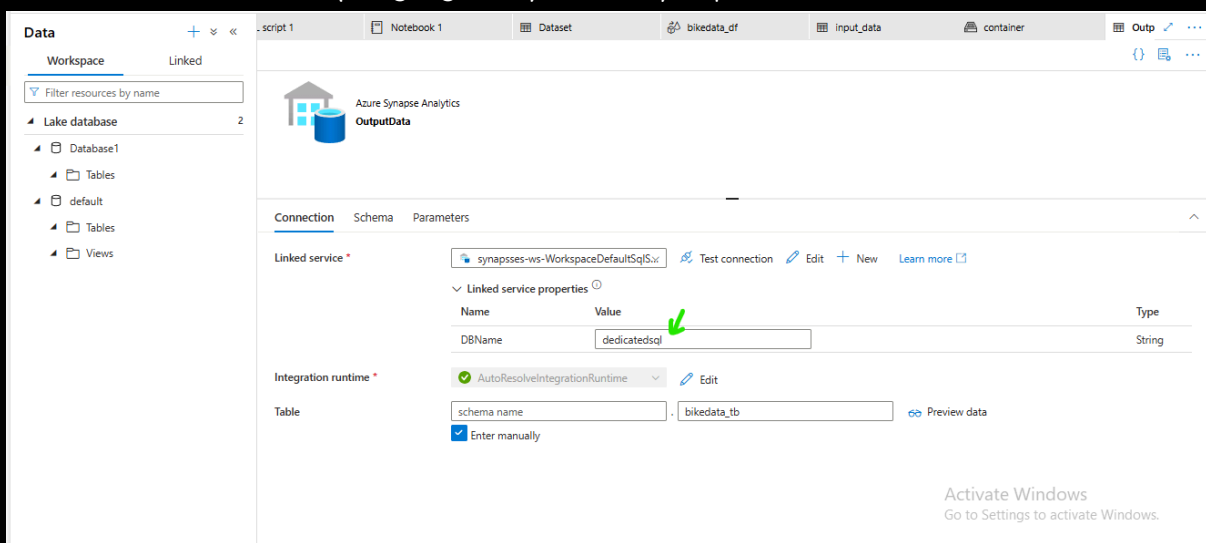
Activate Windows Go to Settings to activate Windows.

Create Cancel

1 → 2 → 3 → 4 → 5 → 6 → 7 →



- Create a folder (stagingdata) in the synapse data lake.



Synapse live Validate all Publish all

Integrate + < > << >>

Filter resources by name

Pipelines 1

BikeData_PL

Activities < > << >>

Search activities

Synapse

Move and transform

Azure Data Explorer

Azure Function

Batch Service

Databricks

Data Lake Analytics

General

HDInsight

Iteration & conditionals

Machine Learning

Dataset bikedata_df

Input_data

container

OutputData

BikeData_PL

Validate Debug Add trigger Data flow debug

Data flow

Data flow1

General Settings Parameters User properties

Advanced

Logging level [ⓘ]

Verbose Basic None

Sink properties

Staging [ⓘ]

Staging linked service [ⓘ]

synapses-ws-WorkspaceDefaultStor...

Test connection Edit + New

Integration runtime *

AutoResolveIntegrationRuntime Edit

Staging storage folder

datasets / stagingdatasets

Activate Windows

Go to Settings to activate Windows.

Synapse live Validate all Publishing

Notebook 1 Dataset bikedata_df Input_data

Validate Debug Add trigger Data flow debug

Data flow

Data flow1

General Settings Parameters User properties

Data flow *

bikedata_df Open + New

Run on (Azure IR) *

AutoResolveIntegrationRuntime

Compute size *

Small

Advanced

Logging level [ⓘ]

Verbose Basic None

Sink properties

Staging [ⓘ]

Staging linked service [ⓘ]

synapses-ws-WorkspaceDefaultStor...

Test connection Edit + New

Integration runtime *

AutoResolveIntegrationRuntime Edit

Staging storage folder

stagingdatasets / staging.csv Browse

Publish all

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

Pending changes (2)

NAME	CHANGE	EXISTING
Pipelines		
↳ BikeData_PL	(New)	-
Datasets		
↳ OutputData	(Edited)	OutputData

Activate Windows

Go to Settings to activate Windows.

Publish Cancel

Synapse live Validate all Publish all

Integrate + < > << >>

Filter resources by name

Pipelines 1

BikeData_PL

Dataset bikedata_df

Input_data

container

OutputData

Validate Debug Add trigger Data flow debug

Data flow

Data flow1

General Settings Parameters User properties

Trigger now

New/Edit

Properties

General Related

Name *

BikeData_PL

Description

Synapse live Validate all Publish all

Integrate + < > << >>

Filter resources by name

Pipelines 1

BikeData_PL

Dataset bikedata_df

Input_data

container

OutputData

Validate Debug Add trigger Data flow debug

Data flow

Data flow1

Parameters Variables Settings Output

+ New

Pipeline run

Trigger pipeline now using last published configuration.

Parameters

Name	Type	Value
No records found		

Activate Windows

Go to Settings to activate Windows.

OK Cancel

Analytics pools

- SQL pools
- Apache Spark pools
- Data Explorer pools (preview)

Activities

- SQL requests
- KQL requests
- Apache Spark applications
- Data flow debug

Integration

- Pipeline runs
- Trigger runs
- Integration runtimes
- Link connections

All pipeline runs > BikeData_PL - Activity runs

Rerun Cancel Refresh Update pipeline List Gantt

Data flow

Data flow1

Activity runs

Pipeline run ID b1c251f9-1d80-4512-8508-420602e58b77

All status Monitor in Azure Metrics Export to CSV

Showing 1 - 1 items

Activity name	Activity status	Activity type	Run start	Duration	Integration runtime	User properties	Activity run ID
Data flow1	Succeeded	Data flow	5/29/2024, 12:29:25 AM	3m 42s	AutoResolveIntegration		8f003e25-3f16-47f4-99

Microsoft Azure Synapse Analytics synapses-ws

Workspace Linked

Filter resources by name

- Lake database 2
- SQL database 2
 - dedicatedsql (SQL)
 - Tables
 - dbo.bikedata_tb
- External tables
- External resources
- Views
- Programmability
- Schemas
- Security
- sqladb (SQL)

bikedata_df input_data container OutputData BikeData_PL SQL script 2

Connect to dedicatedsql Use database dedicatedsql

Run Undo Publish Query plan

```
1 SELECT TOP (100) [Region]
2 , [Country]
3 , [Customer]
4 , [BusinessSegment]
5 , [Category]
6 , [Model]
7 , [Color]
8 , [SalesDate]
9 , [ListPrice]
10 , [UnitPrice]
11 , [OrderQty]
```

Select TOP 100 rows

CREATE

DROP

DROP and CREATE

Bulk load

Region	Country	Customer	BusinessSegm...	Category	Model	Color	SalesDate	ListPrice	U
North America	United States	Valuable Bike P...	(NULL)	Pumps	Minipump	(NULL)	2017-10-13	19.99	1
North America	Canada	Valley Toy Store	(NULL)	Mountain Bikes	Mountain-200	Silver	2019-10-13	2319.99	1
North America	United States	Small Bike Shop	(NULL)	Bib-Shorts	Men's Bib-Shorts	Multi	2017-12-07	89.99	5

00:00:02 Query executed successfully.