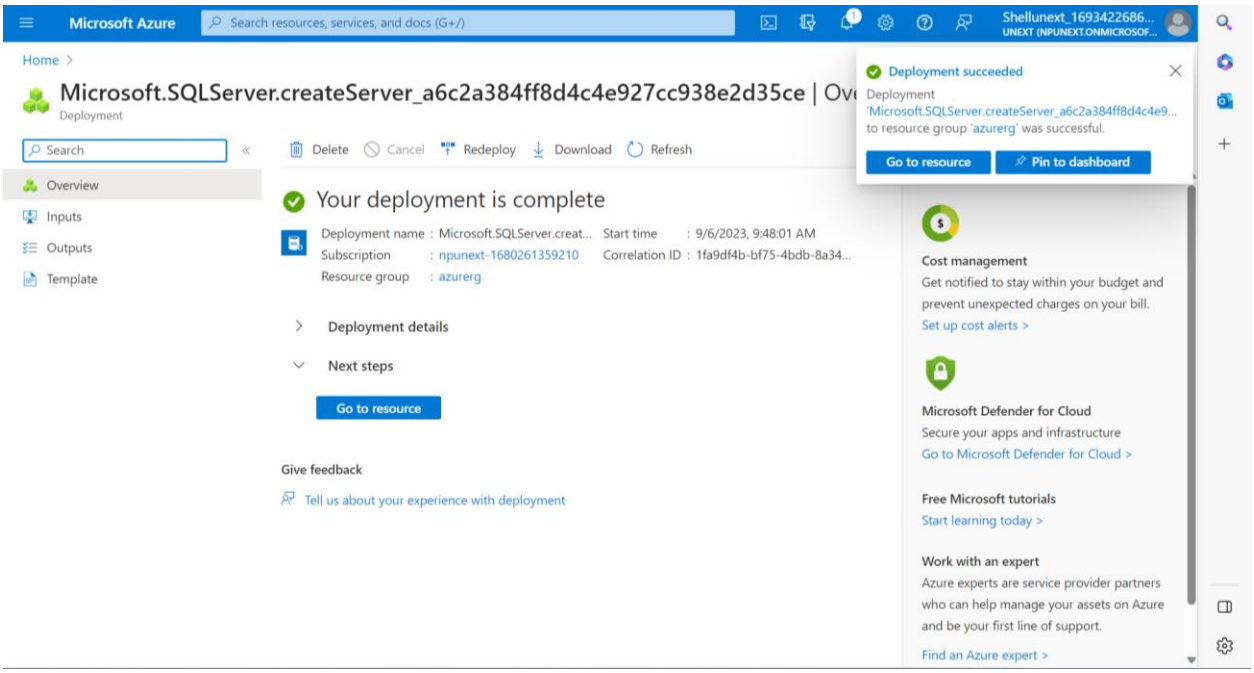
Prerna Singh **Day-7**

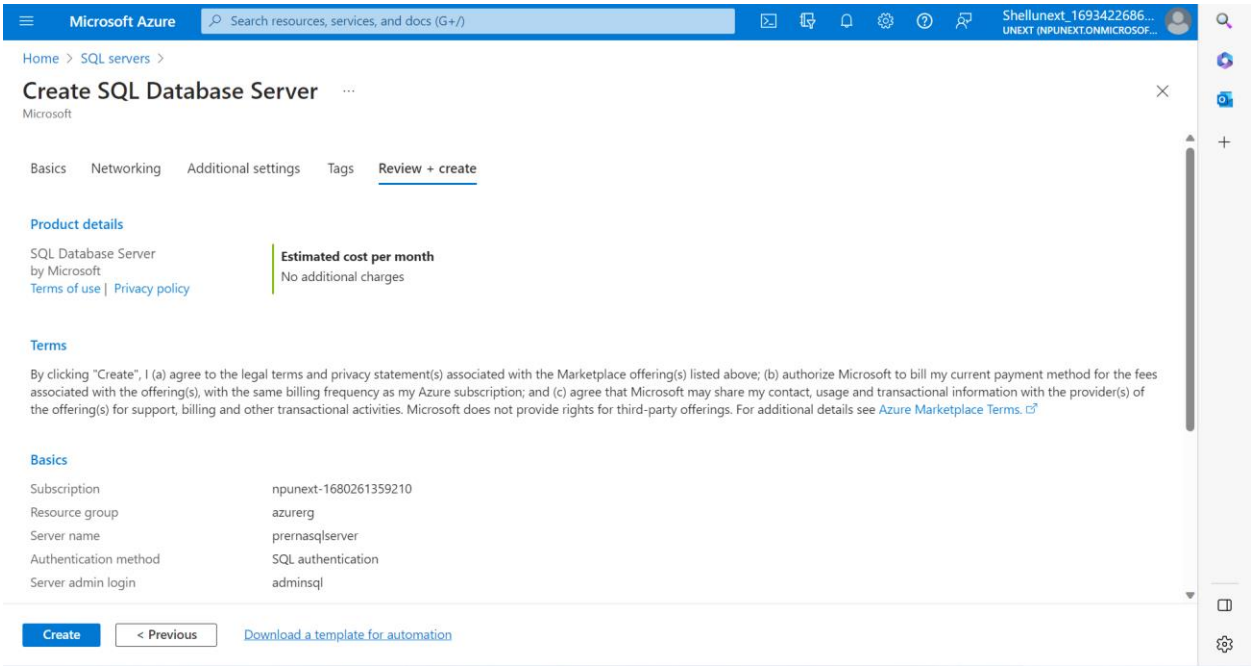
Emp Code- 654870

AZURE Data Factory

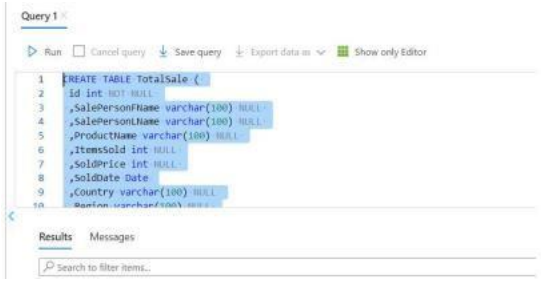
1. Creating SQL Server

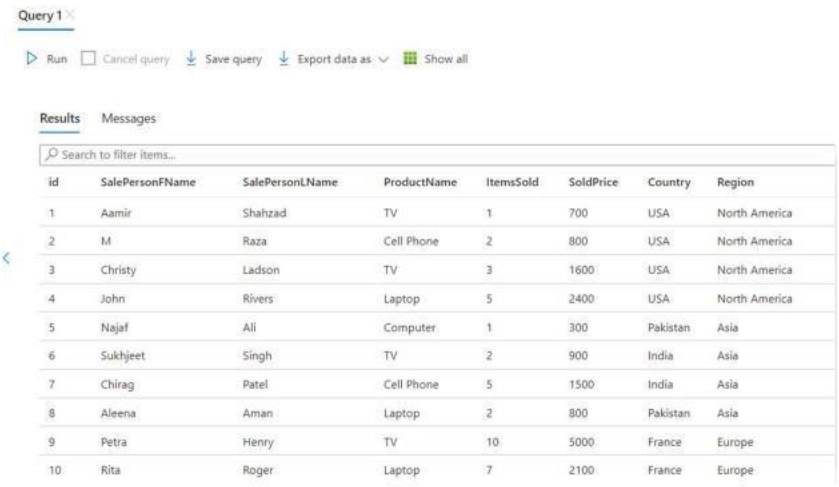


2. Creating SQL Database



Open query editor and add the given query



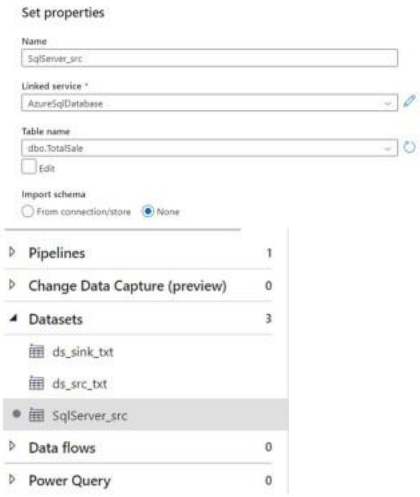


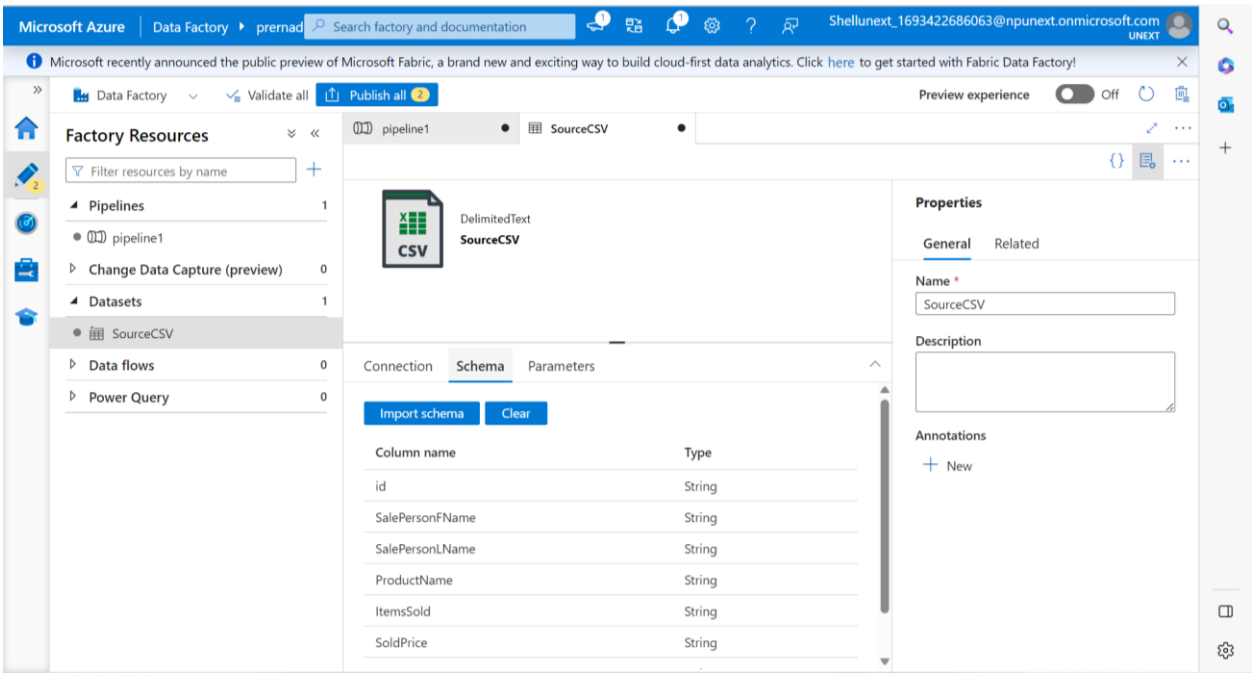
id	SalePersonFName	SalePersonLName	ProductName	ItemsSold	SoldPrice	Country	Region
1	Aamir	Shahzad	TV	1	700	USA	North America
2	M	Raza	Cell Phone	2	800	USA	North America
3	Christy	Ladson	TV	3	1600	USA	North America
4	John	Rivers	Laptop	5	2400	USA	North America
5	Najaf	Ali	Computer	1	300	Pakistan	Asia
6	Sukhjeet	Singh	TV	2	900	India	Asia
7	Chirag	Patel	Cell Phone	5	1500	India	Asia
8	Aleena	Aman	Laptop	2	800	Pakistan	Asia
9	Petra	Henry	TV	10	5000	France	Europe
10	Rita	Roger	Laptop	7	2100	France	Europe

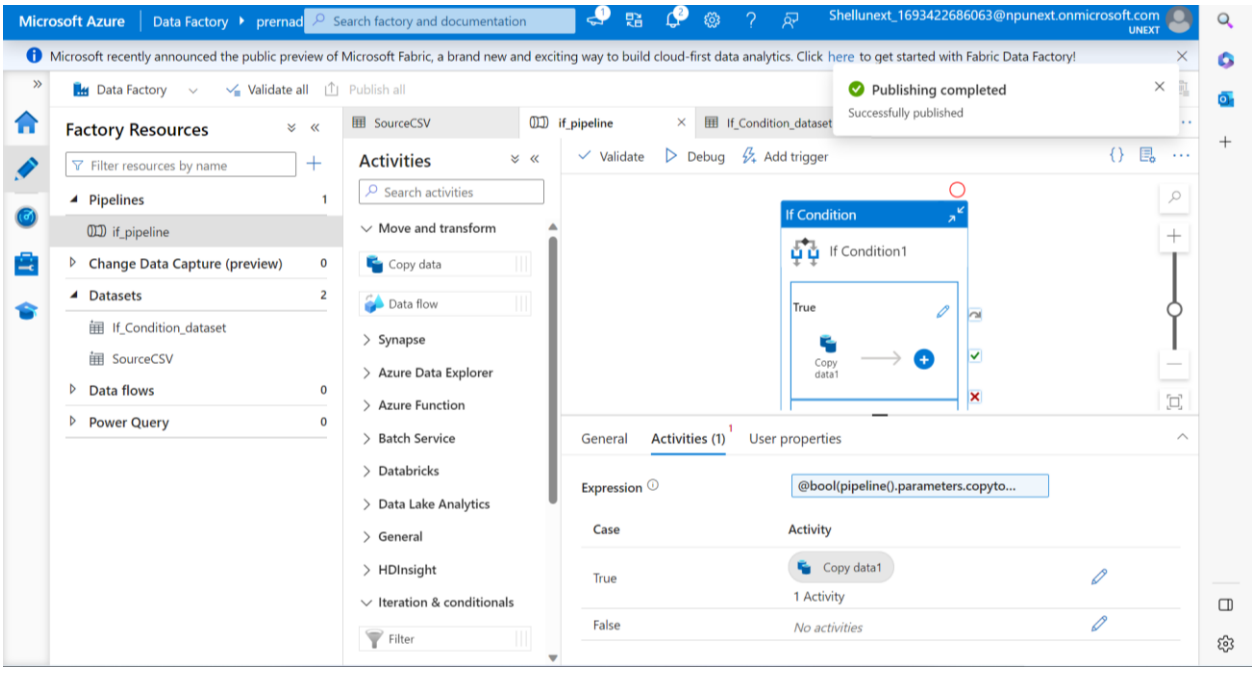
3. Linked Services

Create a Linked Service with SQL Azure Database

Creating Dataset




Microsoft Azure
Data Factory
prernad
Search factory and documentation
Shellunext_1693422686063@npunext.onmicrosoft.com
UNEXT
Microsoft recently announced the public preview of Microsoft Fabric, a brand new and exciting way to build cloud-first data analytics. Click here to get started with Fabric Data Factory!
Data Factory
Validate all
Publish all 2
Preview experience
Off
Factory Resources
Filter resources by name
Pipelines 1
pipeline1
Change Data Capture (preview) 0
Datasets 1
SourceCSV
Data flows 0
Power Query 0
pipeline1
SourceCSV
DelimitedText
SourceCSV
Connection
Schema
Parameters
Import schema
Clear
Column name
Type
id String
SalePersonFName String
SalePersonLName String
ProductName String
ItemsSold String
SoldPrice String
Properties
General
Related
Name *
SourceCSV
Description
Annotations
New


Microsoft Azure
Data Factory
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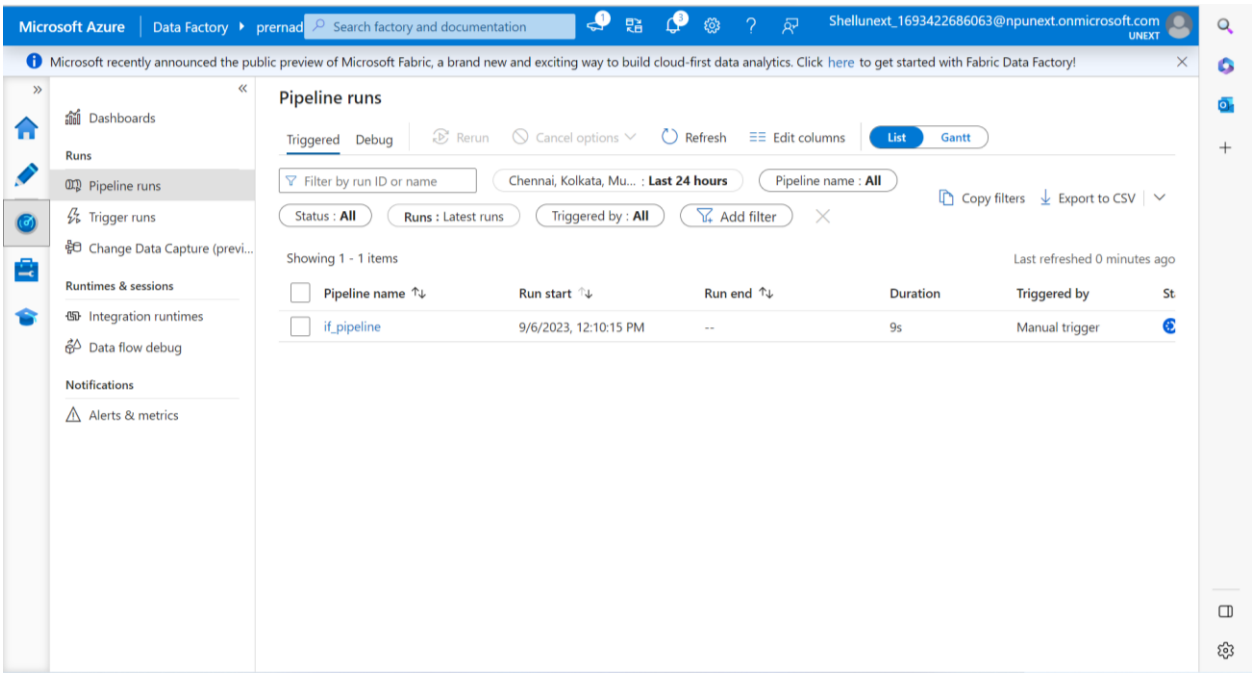
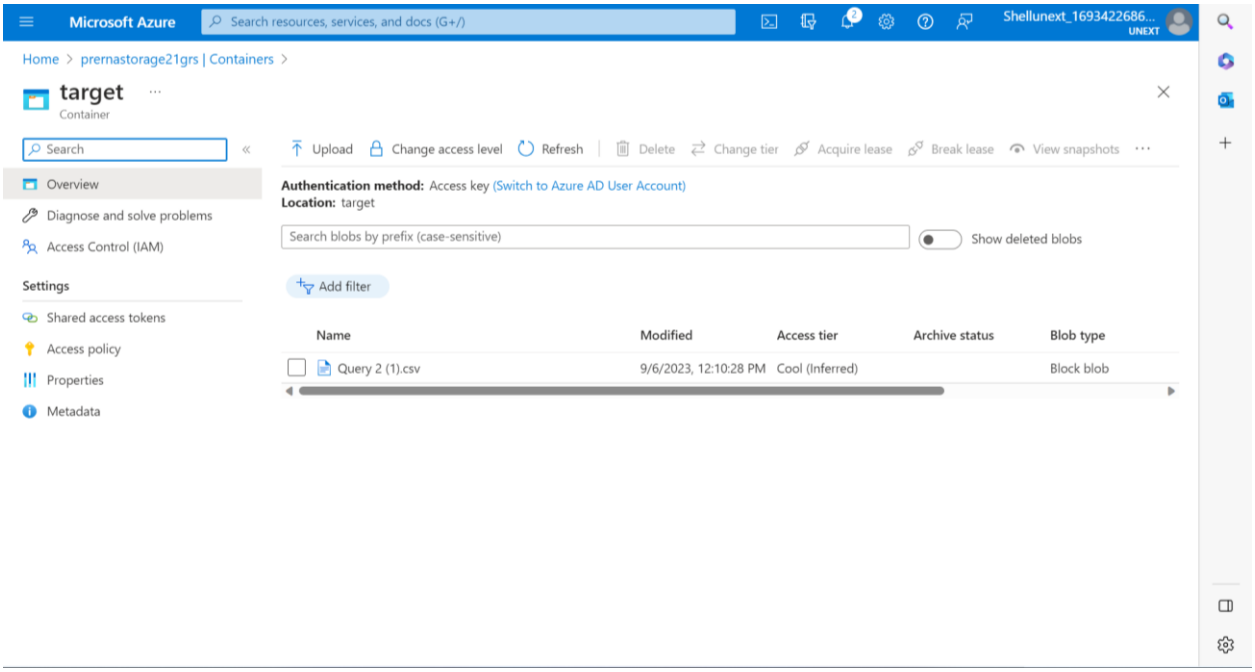
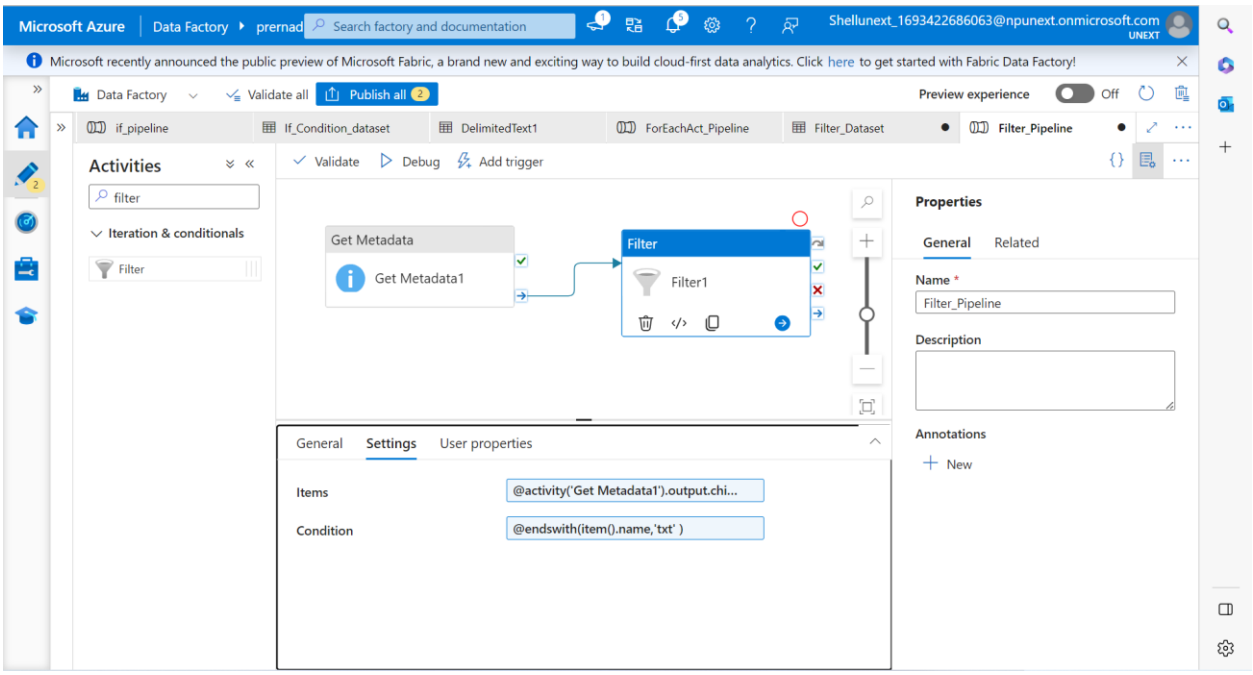
Search factory and documentation
Shellunext_1693422686063@npunext.onmicrosoft.com
UNEXT
Microsoft recently announced the public preview of Microsoft Fabric, a brand new and exciting way to build cloud-first data analytics. Click here to get started with Fabric Data Factory!
Data Factory
Validate all
Publish all
Publishing completed
Successfully published
Factory Resources
Filter resources by name
Pipelines 1
if_pipeline
Change Data Capture (preview) 0
Datasets 2
If_Condition_dataset
SourceCSV
Data flows 0
Power Query 0
SourceCSV
if_pipeline
If_Condition_dataset
Activities
Search activities
Move and transform
Copy data
Data flow
Synapse
Azure Data Explorer
Azure Function
Batch Service
Databricks
Data Lake Analytics
General
HDInsight
Iteration & conditionals
Filter
Validate
Debug
Add trigger
If Condition
If Condition1
True
Copy data1
General
Activities (1)
User properties
Expression
@bool(pipeline().parameters.copyto...
Case
Activity
True
Copy data1
1 Activity
False
No activities


Microsoft Azure
Data Factory
prernad
Search factory and documentation
Shellunext_1693422686063@npunext.onmicrosoft.com
UNEXT
Microsoft recently announced the public preview of Microsoft Fabric, a brand new and exciting way to build cloud-first data analytics. Click here to get started with Fabric Data Factory!
Dashboards
Runs
Pipeline runs
Trigger runs
Change Data Capture (previ...
Runtimes & sessions
Integration runtimes
Data flow debug
Notifications
Alerts & metrics
Pipeline runs
Triggered
Debug
Rerun
Cancel options
Refresh
Edit columns
List
Gantt
Filter by run ID or name
Chennai, Kolkata, Mu... : Last 24 hours
Pipeline name : All
Copy filters
Export to CSV
Status : All
Runs : Latest runs
Triggered by : All
Add filter
Showing 1 - 1 items
Last refreshed 0 minutes ago
Pipeline name
Run start
Run end
Duration
Triggered by
St
if_pipeline
9/6/2023, 12:10:15 PM
--
9s
Manual trigger

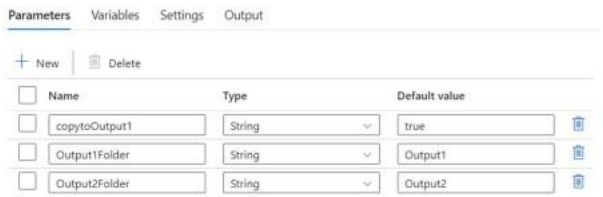

Microsoft Azure
Search resources, services, and docs (G+/)
Shellunext_1693422686...
UNEXT
Home > prernastorage21grs | Containers >
target
Container
Search
Overview
Diagnose and solve problems
Access Control (IAM)
Settings
Shared access tokens
Access policy
Properties
Metadata
Upload
Change access level
Refresh
Delete
Change tier
Acquire lease
Break lease
View snapshots
Authentication method: Access key (Switch to Azure AD User Account)
Location: target
Search blobs by prefix (case-sensitive)
Show deleted blobs
Add filter
Name
Modified
Access tier
Archive status
Blob type
Query 2 (1).csv
9/6/2023, 12:10:28 PM
Cool (Inferred)
Block blob



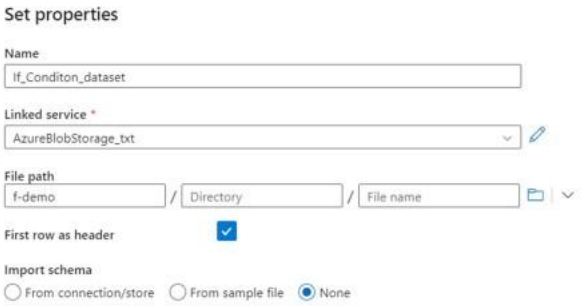
4. If Condition Activity

Create a Pipeline

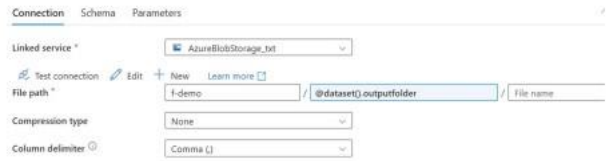
Add the following Parameters



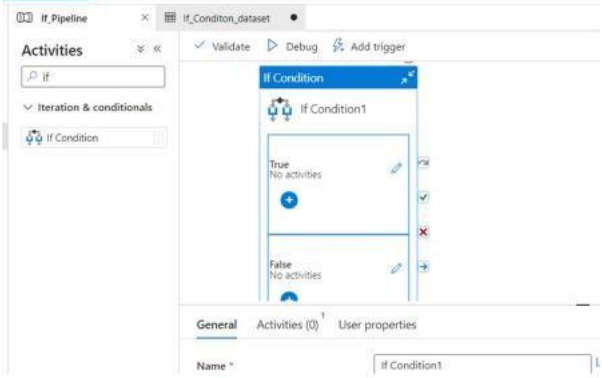
Create a dataset for the destination

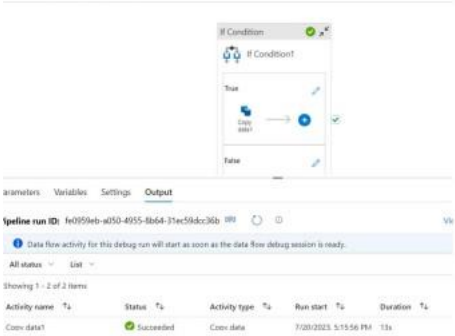


Add the following Parameters

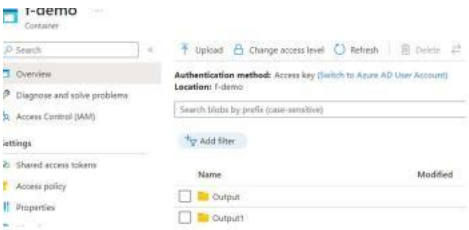


Go to pipeline and drag the condition



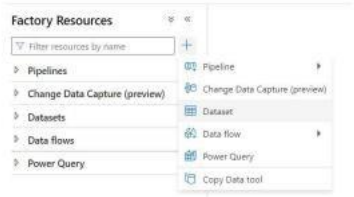


The following shows the output file created

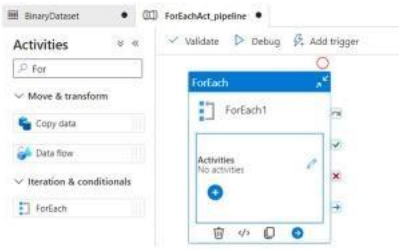


5. For Each Activity

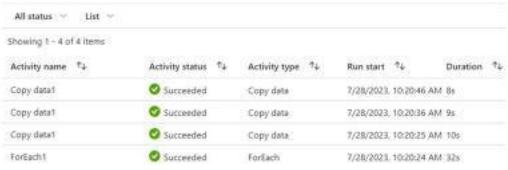
Creating Dataset



Drag and drog a for each pipeline



Add the pipeline parameters



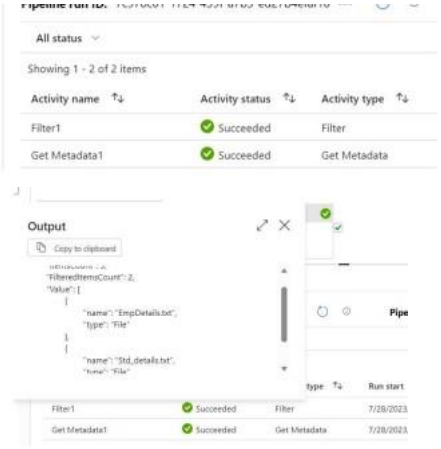
Upon going to Destination, folders can be seen

6. Filter Activity

In the case study scenario, we have 2 text files and 1 CSV files
We intend to get the txt file

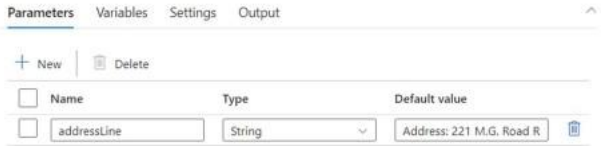
Create a pipeline hand drag and drop “Get Metadata”

Add the filter activity and validate

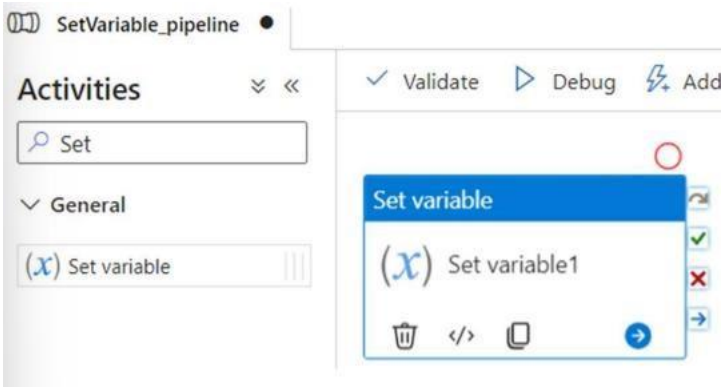


7. Set Variable Acttivity

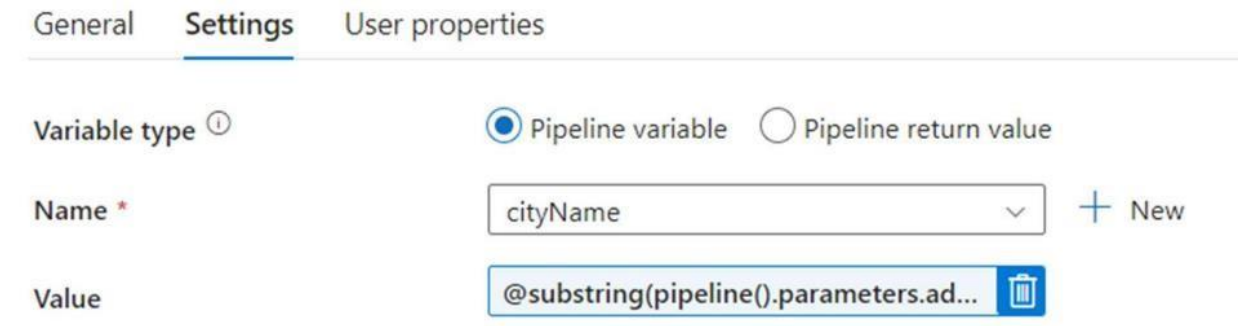
Create a pipeline and add the folowing parameters



Drag and Drop the Set Variable



Add the following expression

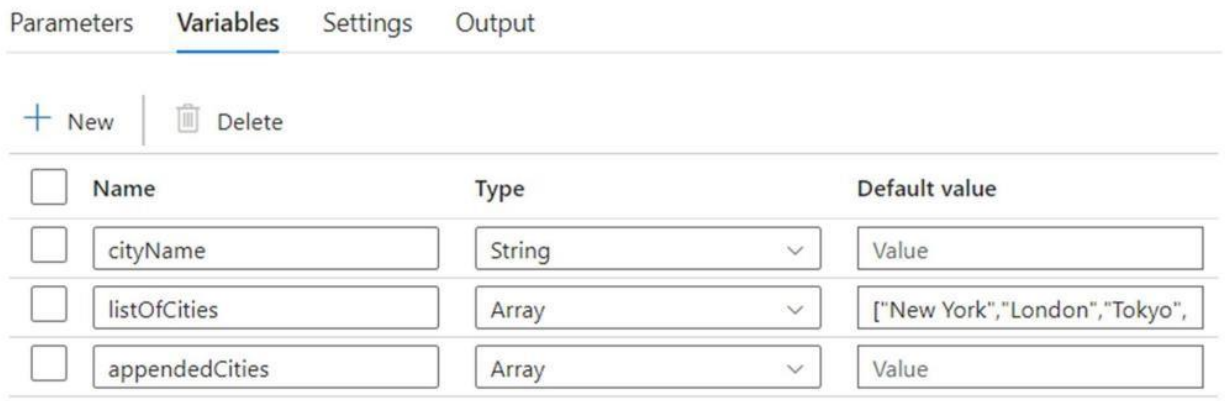


Check the output tab

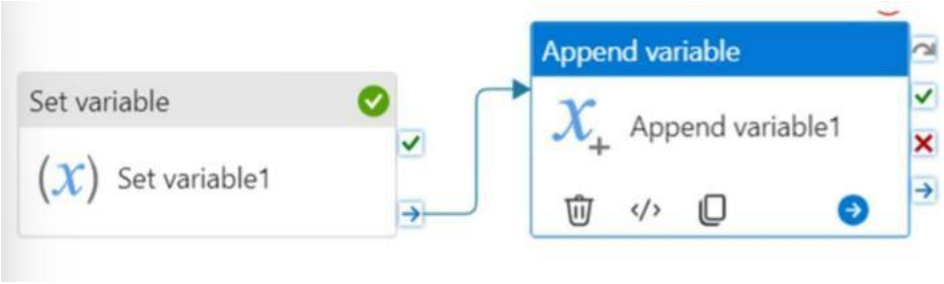

```
{
    "name": "cityName",
    "value": "Kolkata"
}
```


8. Exercise: Append Variable

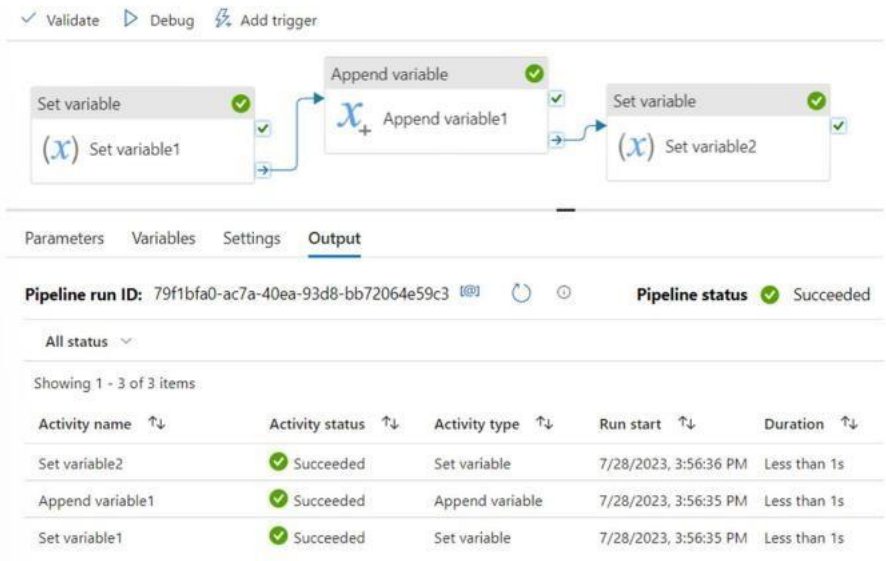
In the set variable pipeline, add two more variables



Drag and drop append variable acticity



Pipeline executed successfully

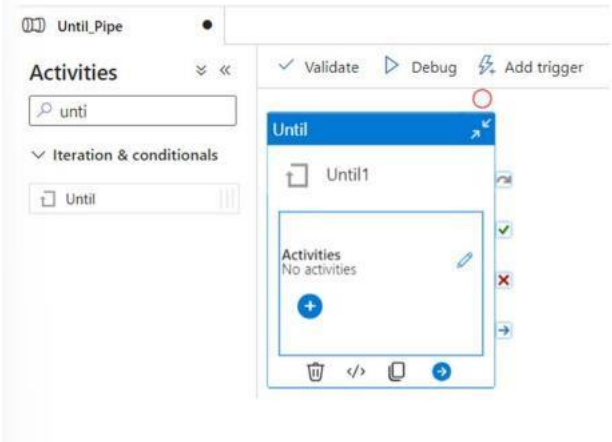


Output tab

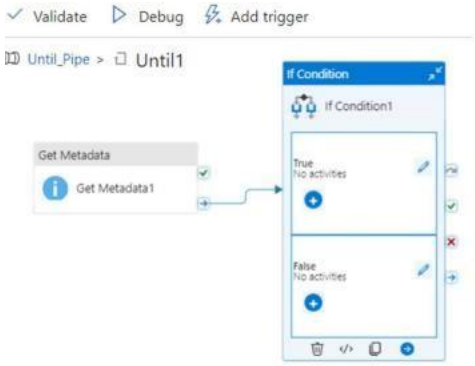

```
{
    "name": "appendedCities",
    "value": [
        "New York",
        "London",
        "Tokyo",
        "Singapore City",
        "Kolkata"
    ]
```


9. Until Activity:

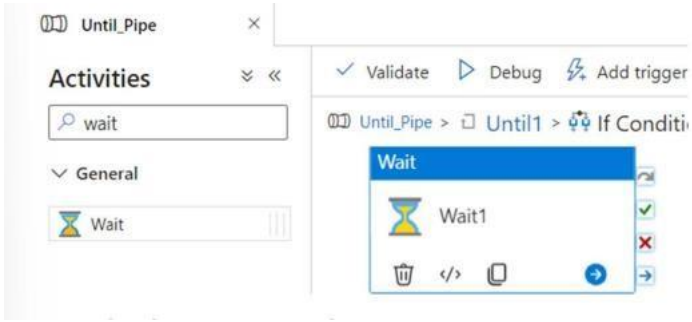
Create new pipeline and create a variable
Drag and drop the Until Acitivity



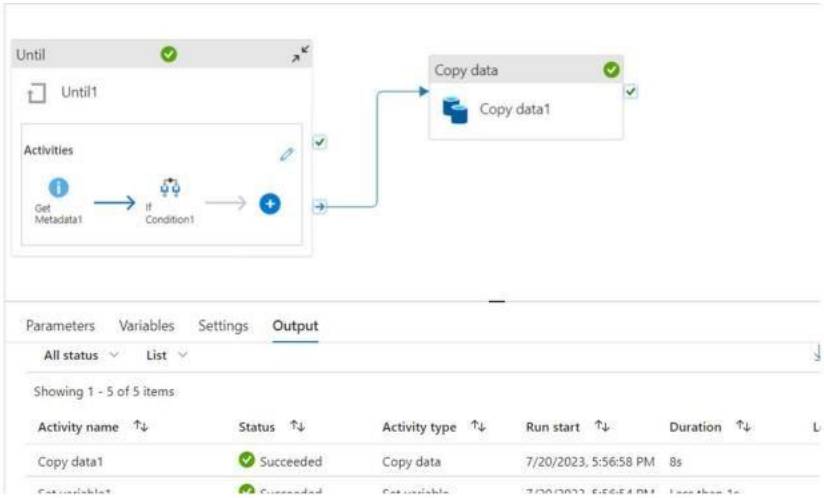
Make a connection with the if condition



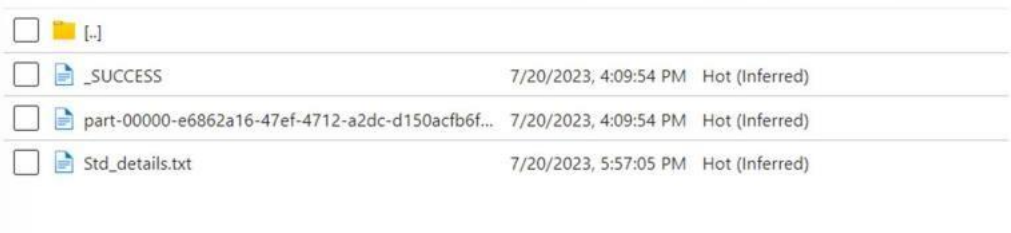
Using the wait cativity



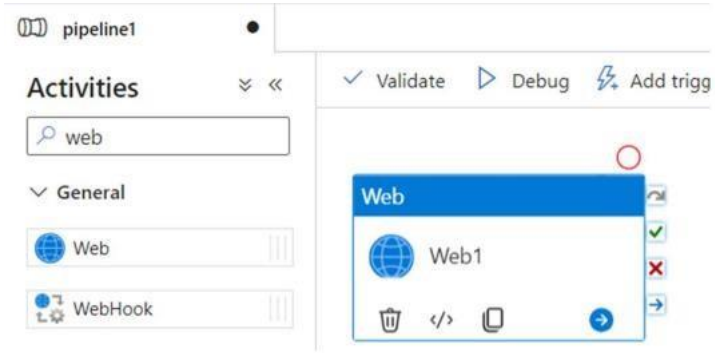
Pipeline runs successfully



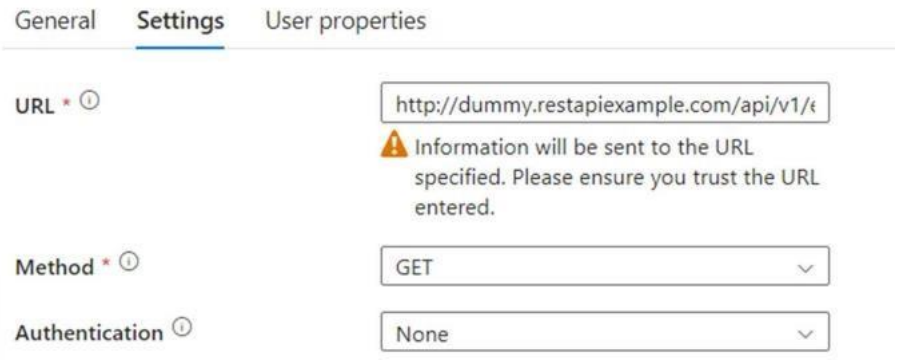
Check the output files



10. Web Activity Exercise



Set the URL and Method



Output:

Output

Copy to clipboard


```
{
    "status": "success",
    "data": [
        {
            "id": 1,
            "employee_name": "Tiger Nixon",
            "employee_salary": 320800,
            "employee_age": 61,
            "profile_image": ""
        },
        {
            "id": 2,
            "employee_name": "Garrett Winters",
            "employee_salary": 170750,
            "employee_age": 63,
            "profile_image": ""
        },
        {
            "id": 3,
            "employee_name": "Ashton Cox",
            "employee_salary": 86000,
            "employee_age": 66,
            "profile_image": ""
        },
        {
            "id": 4,
            "employee_name": "Cedric Kelly",
            "employee_salary": 433060,
            "employee_age": 22,
            "profile_image": ""
        },
        {
            "id": 5,
            "employee_name": "Airi Satou",
```