

AZURE HANDSON

8th September

Group 3

TABLE CREATION:

Query:

```
CREATE TABLE TotalSale (
    id int NOT NULL
    ,SalePersonFName varchar(100) NULL
    ,SalePersonLName varchar(100) NULL
    ,ProductName varchar(100) NULL
    ,ItemsSold int NULL
    ,SoldPrice int NULL
    ,Country varchar(100) NULL
    ,Region varchar(100) NULL
)
INSERT into TotalSale (
    id
    ,SalePersonFName
    ,SalePersonLName
    ,ProductName
    ,ItemsSold
    ,SoldPrice
    ,Country
    ,Region
)
VALUES (1,'Aamir','Shahzad','TV',1 ,700,'USA','North
America');
INSERT into TotalSale (
    id
    ,SalePersonFName
    ,SalePersonLName
    ,ProductName
    ,ItemsSold
    ,SoldPrice
    ,Country
    ,Region
)
VALUES(2,'M','Raza','Cell Phone',2,800,'USA','North America');
INSERT into TotalSale (
    id
    ,SalePersonFName
    ,SalePersonLName
```

```
,ProductName  
,ItemsSold  
,SoldPrice  
,Country  
,Region  
)  
VALUES(3,'Christy','Ladson','TV',3,1600,'USA','North  
America');  
INSERT into TotalSale (  
    id  
,SalePersonFName  
,SalePersonLName  
,ProductName  
,ItemsSold  
,SoldPrice  
,Country  
,Region  
)  
VALUES(4,'John','Rivers','Laptop',5,2400,'USA','North  
America');  
INSERT into TotalSale (  
    id  
,SalePersonFName  
,SalePersonLName  
,ProductName  
,ItemsSold  
,SoldPrice  
,Country  
,Region  
)  
VALUES(5,'Najaf','Ali','Computer',1,300,'Pakistan','Asia');  
INSERT into TotalSale (  
    id  
,SalePersonFName  
,SalePersonLName  
,ProductName  
,ItemsSold  
,SoldPrice  
,Country  
,Region  
)  
VALUES(6,'Sukhjeet','Singh','TV',2,900,'India','Asia');  
INSERT into TotalSale (  
    id  
,SalePersonFName
```

```
,SalePersonLName
,ProductName
,ItemsSold
,SoldPrice
,Country
,Region
)
VALUES(7,'Chirag','Patel','Cell Phone',5,1500,'India','Asia');
INSERT into TotalSale (
    id
    ,SalePersonFName
    ,SalePersonLName
    ,ProductName
    ,ItemsSold
    ,SoldPrice
    ,Country
    ,Region
    )
VALUES(8,'Aleena','Aman','Laptop',2,800,'Pakistan','Asia');
INSERT into TotalSale (
    id
    ,SalePersonFName
    ,SalePersonLName
    ,ProductName
    ,ItemsSold
    ,SoldPrice
    ,Country
    ,Region
    )
VALUES(9,'Petra','Henry','TV',10,5000,'France','Europe');
INSERT into TotalSale (
    id
    ,SalePersonFName
    ,SalePersonLName
    ,ProductName
    ,ItemsSold
    ,SoldPrice
    ,Country
    ,Region
    )
VALUES(10,'Rita','Roger','Laptop',7,2100,'France','Europe');
INSERT into TotalSale (
    id
    ,SalePersonFName
    ,SalePersonLName
```

```

,ProductName
,ItemsSold
,SoldPrice
,Country
,Region
)
VALUES(11,'Tamara','Tony','Cell Phone',2,1200,'Germany','Europe');

```

The screenshot shows the Azure Data Factory Query Editor interface. On the left, there's a sidebar with various database management options like Overview, Activity log, Tags, and Query editor (preview). The main area has a 'Query 1' tab with the following SQL code:

```

1 select * from Totalsale;

```

Below the code, the 'Results' tab displays a table of data:

	id	SalePersonName	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	Ladison	TV	3	1600	USA	North America	
4	John	Rivers	Laptop	5	2400	USA	North America	
5	Najaf	Ali	Computer	1	300	Pakistan	Asia	
6	Sukjeet	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	

The status bar at the bottom shows the date and time as 9/8/2023 12:30 PM.

Creation of DataFactory:

The screenshot shows the Microsoft Azure Data Factory Overview page for a deployment named 'Microsoft.DataFactory-20230908123303'. The deployment status is marked as 'Deployment succeeded' with a green checkmark. Key details include the deployment name, start time (9/8/2023, 12:33:43 PM), subscription (RDBF), correlation ID (19f7421e-3217-4500-b481...), and resource group (RDBF). The 'Deployment details' section is collapsed, while the 'Next steps' section is expanded, containing a 'Go to resource' button. A sidebar on the right provides links to Cost management, Microsoft Defender for Cloud, Free Microsoft tutorials, and Work with an expert. The system tray at the bottom indicates it's 80°F Windy, and the date is 9/8/2023.

Launch Studio:

The screenshot shows the Microsoft Azure Data Factory Studio interface for the 'Group3-DF' factory. The main area displays four operational cards: 'Ingest' (Copy data at scale once or on a schedule), 'Orchestrate' (Code-free data pipelines), 'Transform data' (Transform your data using data flows), and 'Configure SSIS' (Manage & run your SSIS packages in the cloud). To the left, a sidebar lists icons for Home, Create, Data Flow, Pipeline, Schedule, and Monitor. The bottom navigation bar includes a 'Recent resources' section and the same system tray indicators as the previous screenshot.

Adding DB to Data Factory:

Microsoft Azure | Data Factory > Group3-DF

Preview experience: Off

Factory Resources

Azure SQL Database TotalSale

Properties

Name: AzureSqlTable1

Schema

Column name	Type
id	int
SalePersonFName	varchar
SalePersonLName	varchar
ProductName	varchar
ItemsSold	int
SoldPrice	int

Annotations

Creating Dataflow:

Adding Source:

Microsoft Azure | Data Factory > Group3-DF

Preview experience: Off

Factory Resources

TotalSale

Properties

Name: dataflow1

Source

source1

Import data from TotalSale

Adding Derived Column:

Microsoft Azure | Data Factory > Group3-DF

Search factory and documentation

pioneer12@ravinsofttech.com RAVINSOFTTECH

Dataflow expression builder

derivedColumn1

Derived Columns

+ Create new

abc FullName

123 Total_Sales

Column name *

FullName

Expression

concatWS(' ',SalePersonFName,SalePersonLName)

Save

Expression elements

All

Functions

Input schema

Parameters

Cached lookup

Data flow library

Expression values

Filter by keyword

Create new

123 id

abc SalePersonFName

abc SalePersonLName

abc ProductName

Data preview

Save and finish Cancel Clear contents

82°F Near record

Search

1:51 PM 9/8/2023

Microsoft Azure | Data Factory > Group3-DF

Search factory and documentation

pioneer12@ravinsofttech.com RAVINSOFTTECH

Dataflow expression builder

derivedColumn1

Derived Columns

+ Create new

abc FullName

123 Total_Sales

Column name *

Total_Sales

Expression

multiply(ItemsSold,SoldPrice)

Save

Expression elements

All

Functions

Input schema

Parameters

Cached lookup

Data flow library

Expression values

Filter by keyword

Create new

123 id

abc SalePersonFName

abc SalePersonLName

abc ProductName

Data preview

Save and finish Cancel Clear contents

82°F Near record

Search

1:52 PM 9/8/2023

Microsoft Azure | Data Factory > Group3-DF

Search factory and documentation

Dataflow expression builder

derivedColumn1

Derived Columns

+ Create new

abc FullName

123 Total_Sales

abc ProductName

Column name *

ProductName

Expression

iif(PropertyName=='Cell Phone','Mobiles',ProductName)

Save

Expression elements

All

Functions

Input schema

Parameters

Cached lookup

Data flow library

Expression values

Filter by keyword

Create new

123 id

abc SalePersonFName

abc SalePersonLName

abc ProductName

Data preview

Save and finish Cancel Clear contents

82°F Mostly cloudy

Search

1:59 PM 9/8/2023

Using Select to get desired columns:

Microsoft Azure | Data Factory > Group3-DF

Search factory and documentation

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

Validate all Publish all 1

Factory Resources

Pipelines 0

Change Data Capture (preview) 0

Datasets 1

TotalSale

Data flows 1

dataflow1

Power Query 0

Preview experience Off

Select settings

Output stream name * select1

Description Renaming derivedColumn1 to select1 with columns 'id', 'FullName', 'ProductName', 'ItemsSold', 'SoldPrice',

Incoming stream * derivedColumn1

Options

Skip duplicate input columns

Skip duplicate output columns

Input columns *

Auto mapping

Reset

Add mapping

Delete

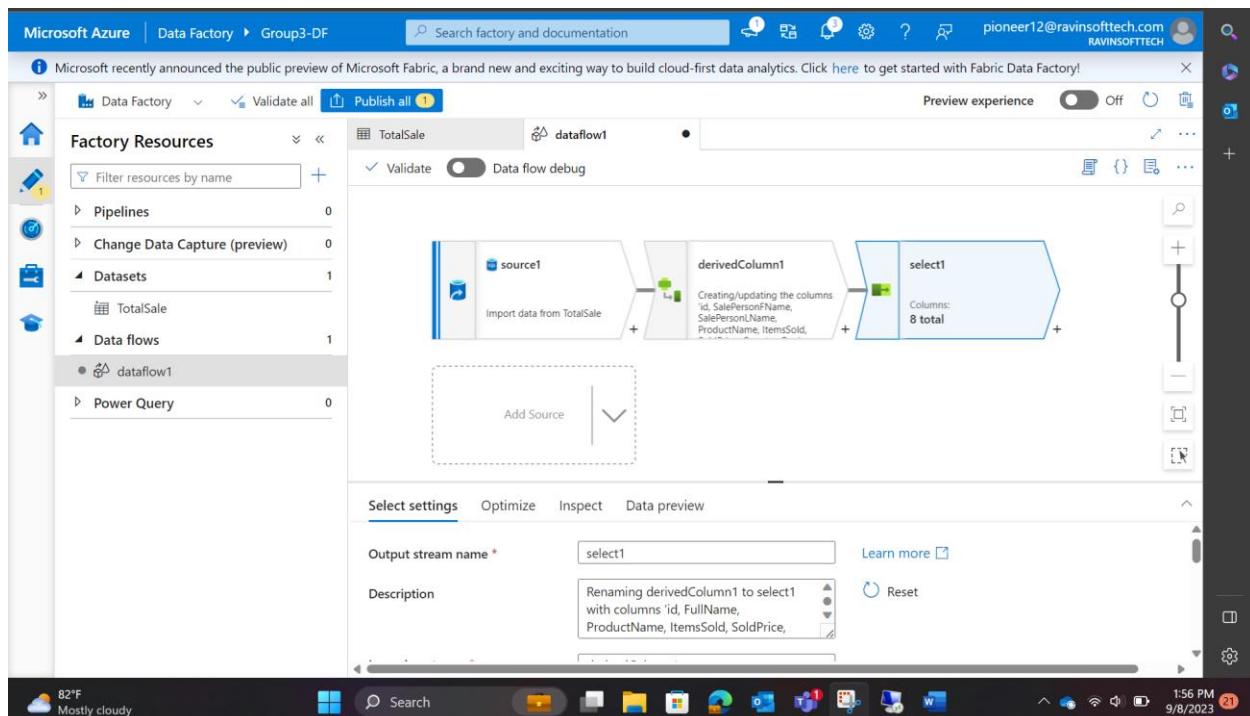
8 mappings: 2 column(s) from the inputs left unmapped

derivedColumn1's column	Name as
123 id	id
abc FullName	FullName
abc ProductName	ProductName

Upcoming earnings

Search

1:55 PM 9/8/2023



Adding Filter Transformation:

Dataflow expression builder

filter1

Expression

```
notEquals(ProductName, 'Computer')
```

Expression elements

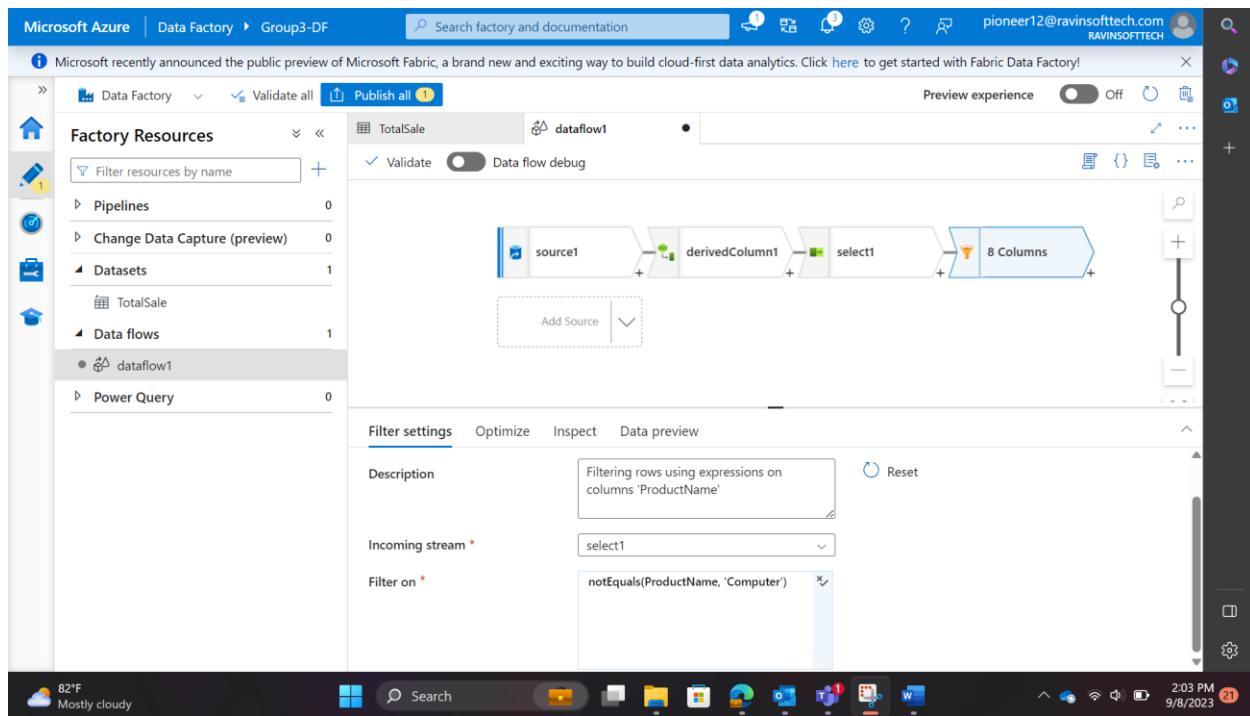
- All
- Functions
- Input schema
- Parameters
- Cached lookup
- Data flow library functions

Expression values

- Filter by keyword
- Create new
- id
- FullName
- ProductName
- ItemsSold

Data preview

Save and finish Cancel Clear contents



Conditional Split Transformation:

Microsoft Azure | Data Factory > Group3-DF

Search factory and documentation

pioneer12@ravinsofttech.com RAVINSOFTTECH

Dataflow expression builder

split1

Expression

```
equals(Region, 'Asia')
```

Expression reference documentation

Expression elements

- All
- Functions
- Input schema
- Parameters
- Cached lookup
- Data flow library functions

Expression values

- id
- FullName
- ProductName
- ItemsSold

Data preview

Save and finish Cancel Clear contents

This screenshot shows the Dataflow expression builder in the Microsoft Azure Data Factory portal. It displays an equals expression: 'equals(Region, 'Asia')'. The interface includes a sidebar with expression elements like All, Functions, and Input schema, and a preview pane showing data flow components.

Microsoft Azure | Data Factory > Group3-DF

Search factory and documentation

pioneer12@ravinsofttech.com RAVINSOFTTECH

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

Data Factory Validate all Publish all 1

Preview experience Off

Factory Resources

- Pipelines 0
- Change Data Capture (preview) 0
- Datasets 1
 - TotalSale
- Data flows 1
 - dataflow1
- Power Query 0

Conditional split settings

Optimize Inspect Data preview

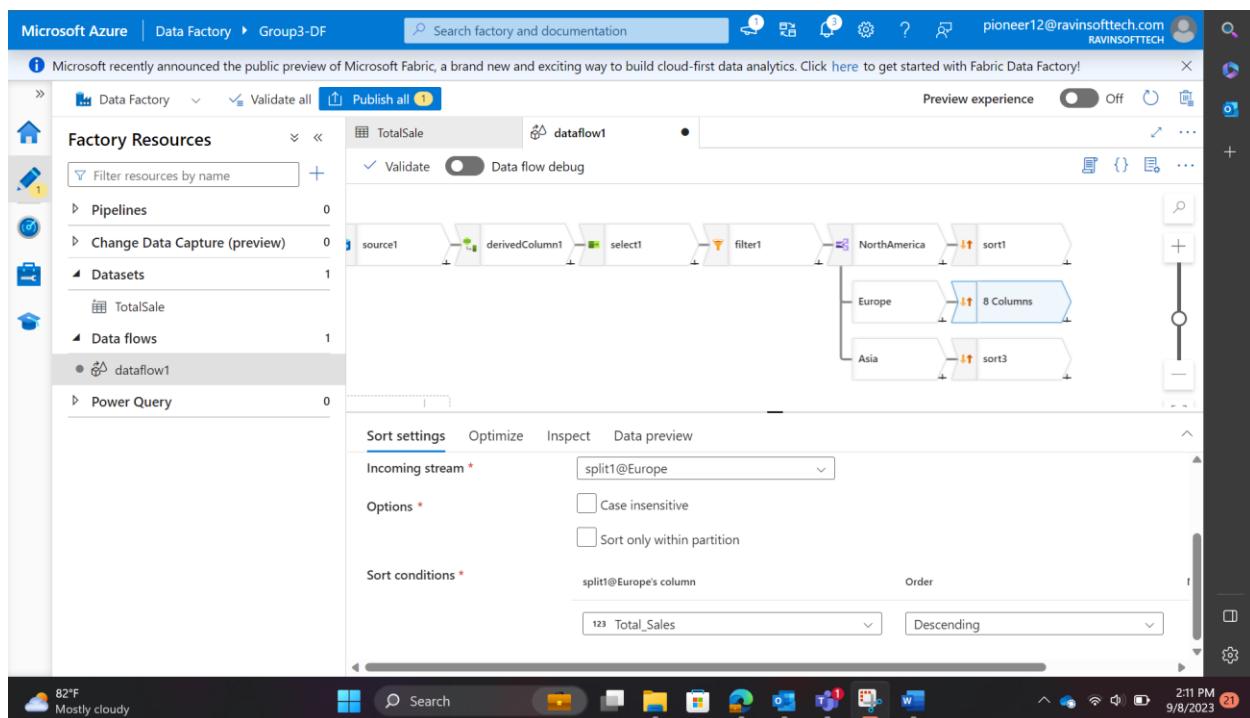
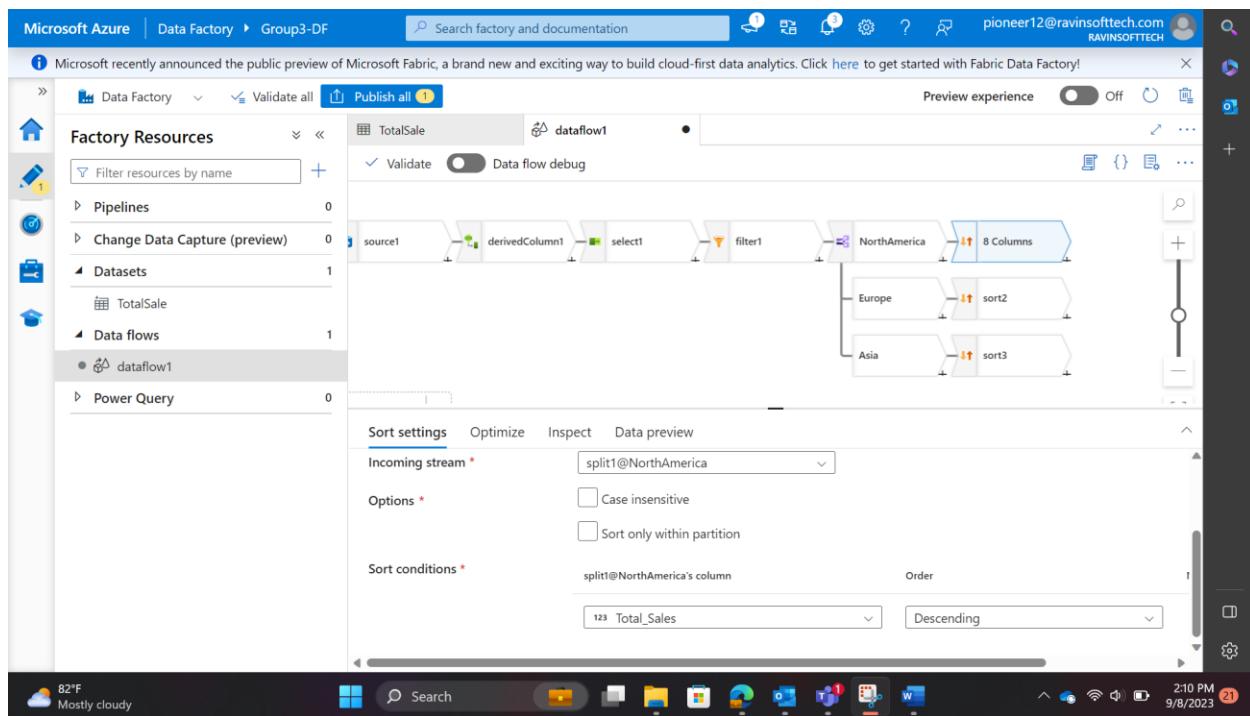
filter1

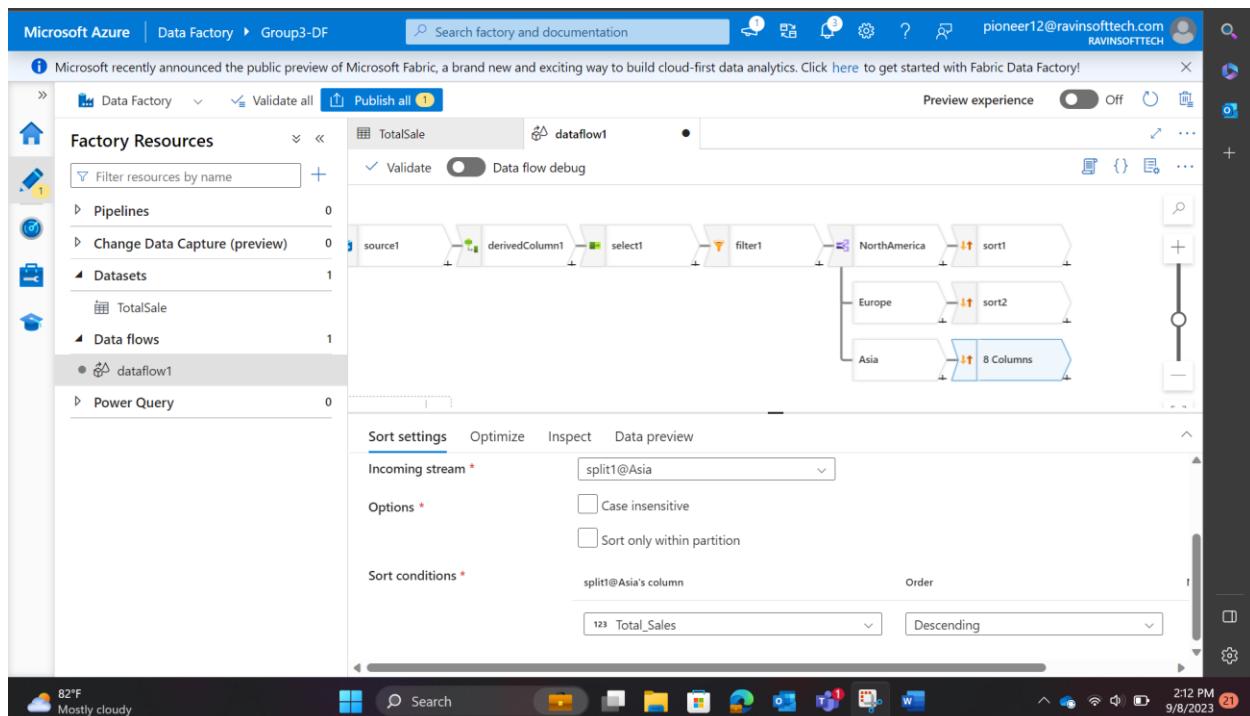
First matching condition All matching conditions

Stream names	Condition
NorthAmerica	equals(Region, 'North America')
Europe	equals(Region, 'Europe')
Asia	Rows that do not meet any condition will use this output stream

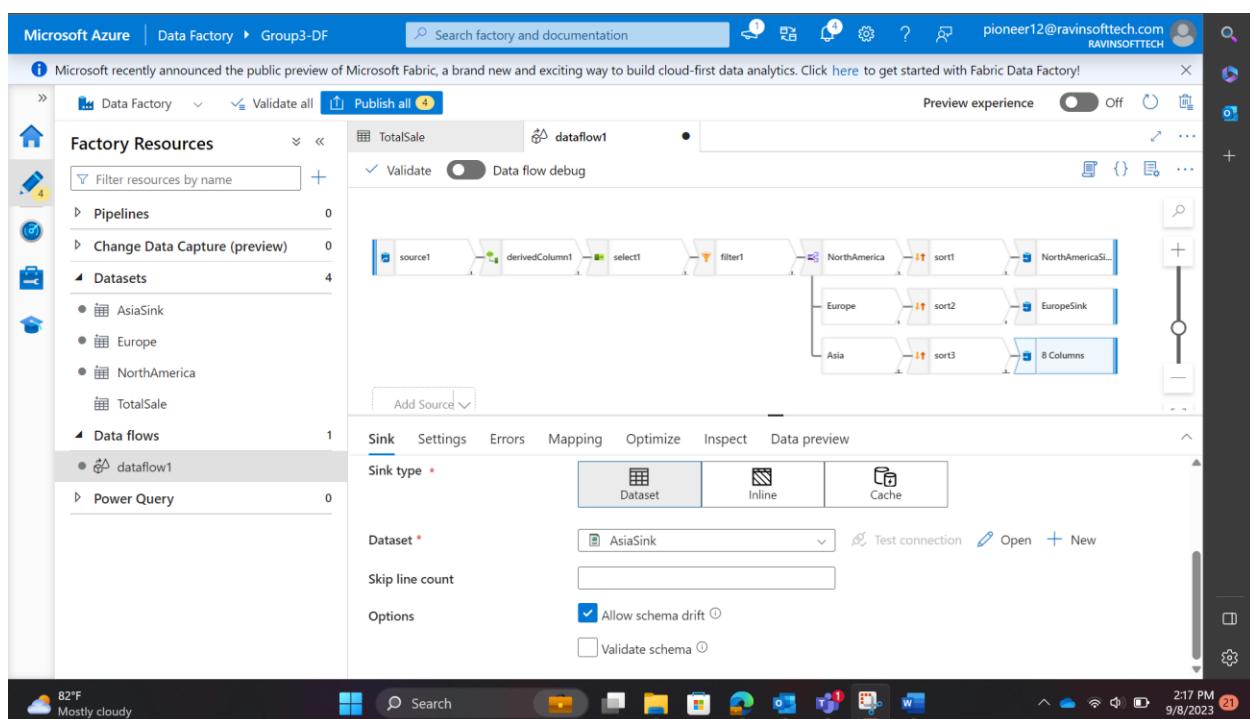
This screenshot shows the main Microsoft Azure Data Factory interface. It displays a data flow named 'dataflow1' under the 'Data flows' section. The data flow consists of several components: source1, derivedColumn1, select1, filter1, and an 8 Columns output. A conditional split is configured after filter1, which branches into three streams: NorthAmerica, Europe, and Asia. The 'Conditional split settings' pane is open, showing the first matching condition selected. The stream names and their corresponding conditions are listed in a table.

Sort Transformation:

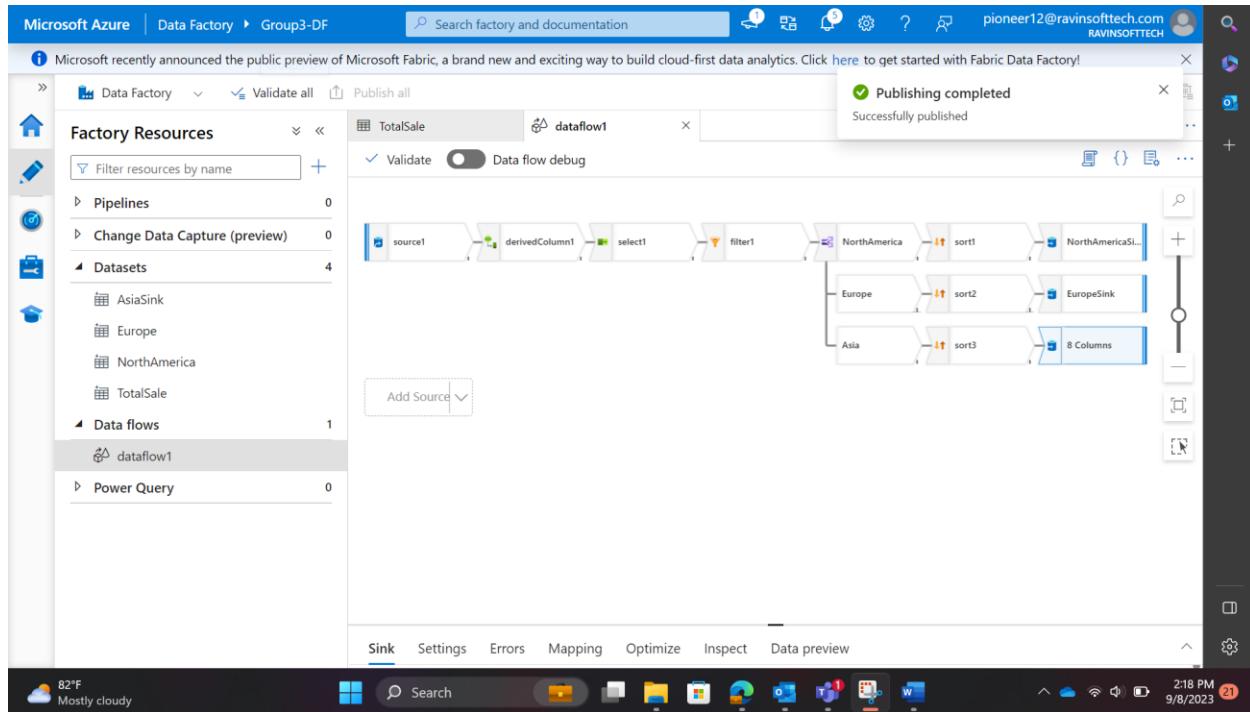




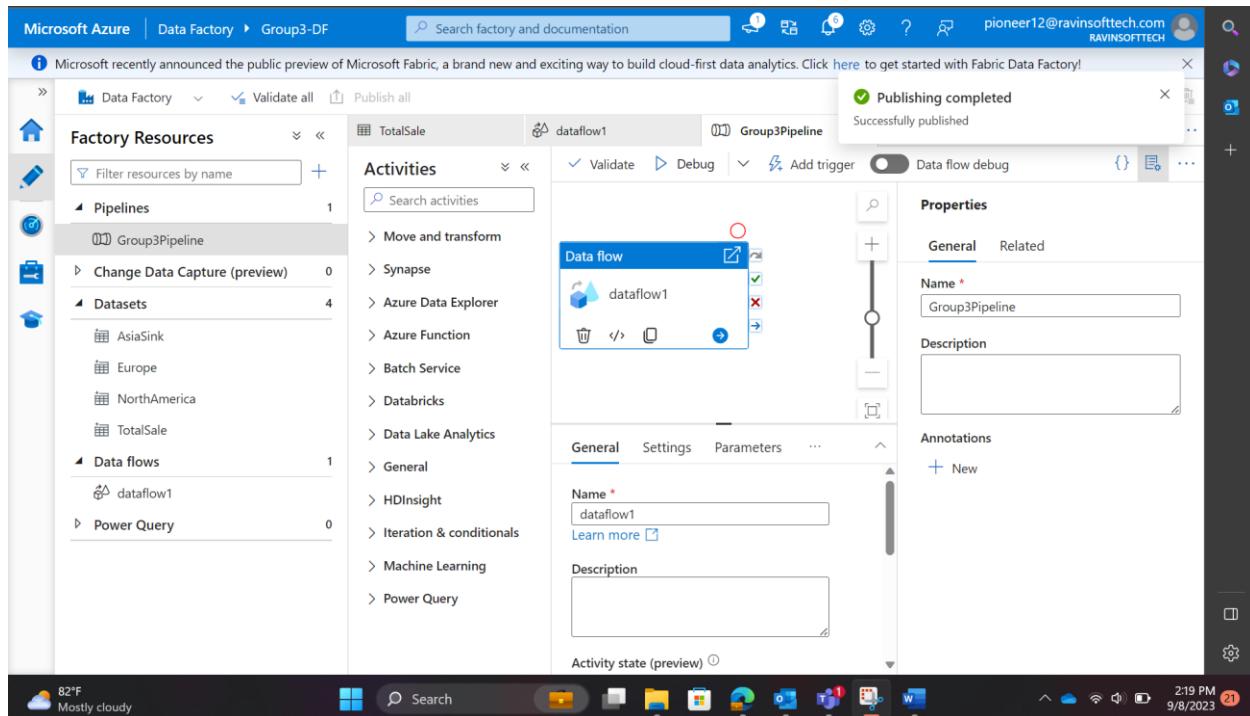
Sink:



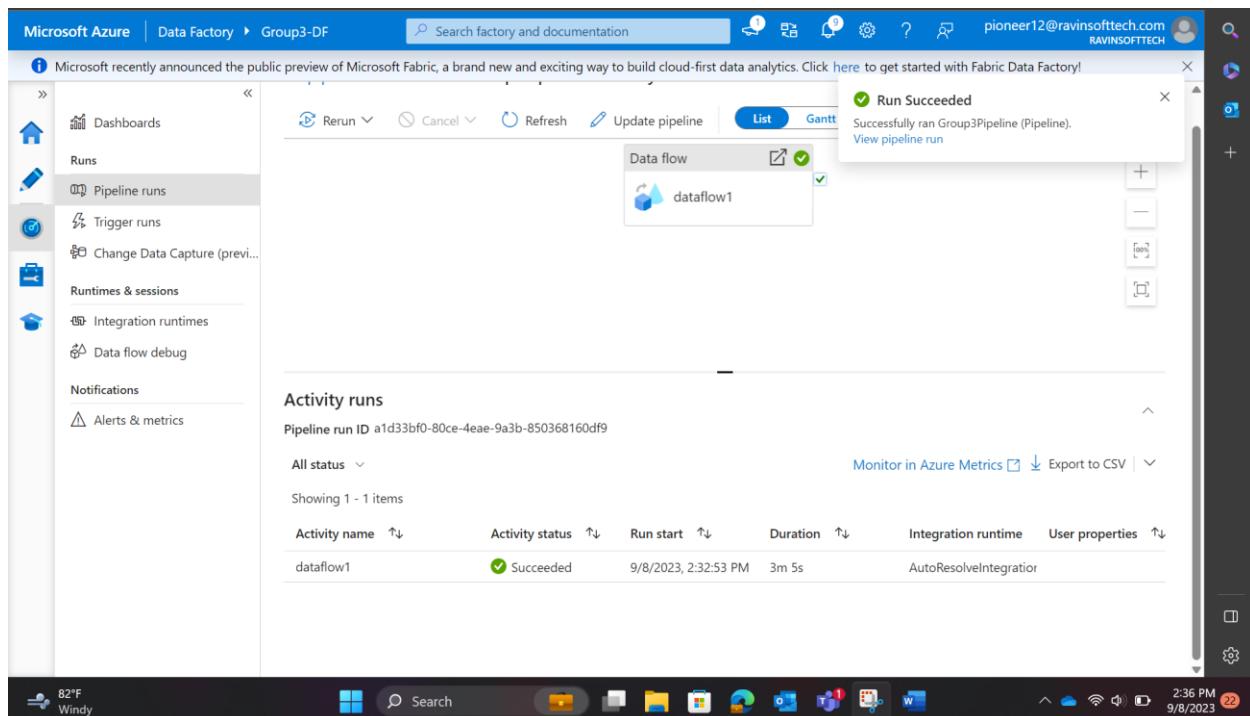
Pipeline:



Pipeline Creation:

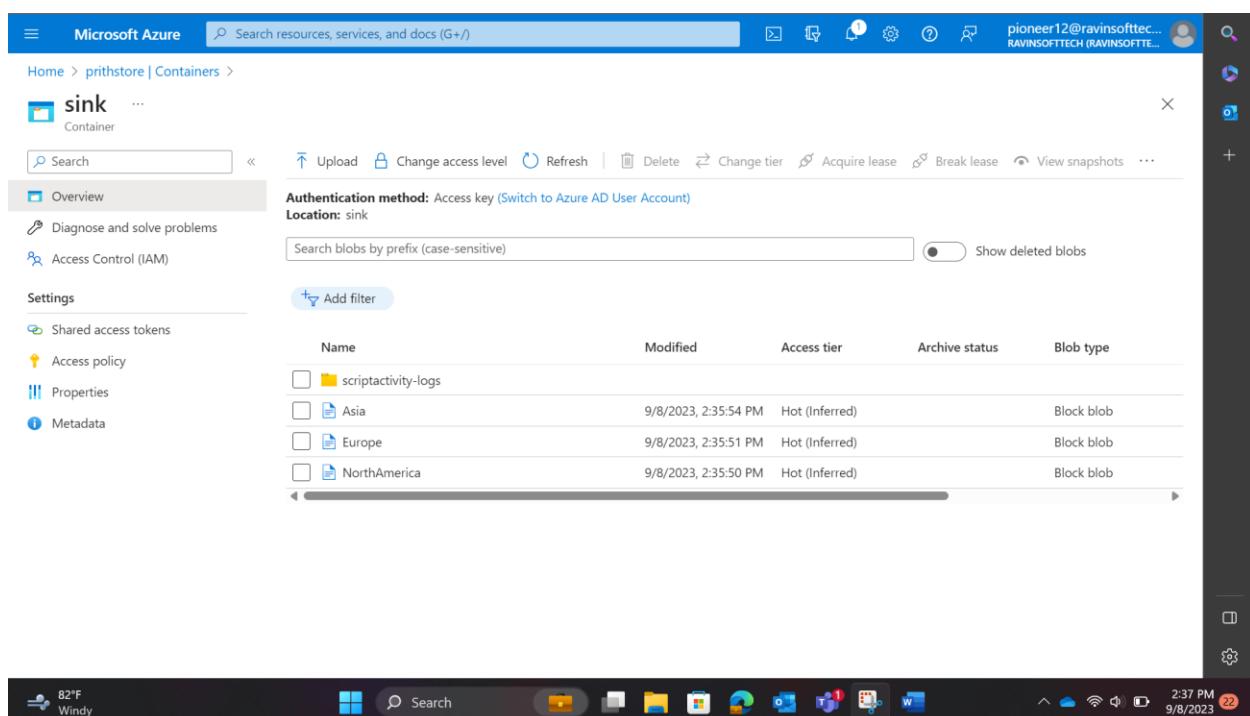


Triggering Pipeline:



The screenshot shows the Microsoft Azure Data Factory interface. The left sidebar has a navigation menu with options like Dashboards, Runs, Pipeline runs (which is selected), Trigger runs, Change Data Capture, Runtimes & sessions, Integration runtimes, Data flow debug, and Notifications. The main area displays a pipeline run summary for 'Group3-DF'. It shows a 'Data flow' section with a 'dataflow1' item, a 'Run Succeeded' message indicating a successful run, and a table of activity runs. One activity named 'dataflow1' is listed with a status of 'Succeeded' at 9/8/2023, 2:32:53 PM, with a duration of 3m 5s. The bottom status bar shows the date and time as 9/8/2023 2:36 PM.

Checking files in Container:



The screenshot shows the Microsoft Azure Blob Storage interface for a container named 'sink'. The left sidebar includes sections for Overview, Diagnose and solve problems, Access Control (IAM), Settings (Shared access tokens, Access policy, Properties, Metadata), and a search bar. The main area shows blob details with an authentication method of 'Access key' and location 'sink'. A table lists blobs with columns: Name, Modified, Access tier, Archive status, and Blob type. The blobs listed are 'scriptactivity-logs', 'Asia', 'Europe', and 'NorthAmerica', all modified on 9/8/2023 at different times, categorized as 'Hot (Inferred)' and 'Block blob'. The bottom status bar shows the date and time as 9/8/2023 2:36 PM.

Microsoft Azure pioneer12@ravinsofttec... RAVINSOFTTECH (RAVINSOFTTE...)

Home > prithstore | Containers > sink >

Asia

Blob

Save Discard Download Refresh Delete

Overview Versions Snapshots **Edit** Generate SAS

⚠ The file 'Asia' may not render correctly as it contains an unrecognized extension.

```
1 id,FullName,ProductName,ItemsSold,SoldPrice>Total_Sales,Country,Region
2 7,Chirag Patel,Mobiles,5,1500,7500,India,Asia
3 6,Sukhjeet Singh,TV,2,900,1800,India,Asia
4 8,Aleena Aman,Laptop,2,800,1600,Pakistan,Asia
5
6
```

▼ Preview

This screenshot shows the Microsoft Azure Storage Explorer interface. It displays a blob named 'Asia' located in the 'sink' container under the 'prithstore' account. The file content is a CSV-like text file with six rows of data. The first row contains column headers: 'id', 'FullName', 'ProductName', 'ItemsSold', 'SoldPrice', 'Total_Sales', 'Country', and 'Region'. Subsequent rows provide data points for products sold in Asia. The interface includes standard Azure navigation and management tools like Save, Discard, Download, Refresh, and Delete, along with tabs for Overview, Versions, Snapshots, Edit (which is currently selected), and Generate SAS.

82°F Windy 2:41 PM 9/8/2023

Home > prithstore | Containers > sink >

Europe

Blob

Save Discard Download Refresh Delete

Overview Versions Snapshots **Edit** Generate SAS

⚠ The file 'Europe' may not render correctly as it contains an unrecognized extension.

```
1 id,FullName,ProductName,ItemsSold,SoldPrice>Total_Sales,Country,Region
2 9,Petra Henry,TV,10,5000,50000,France,Europe
3 10,Rita Roger,Laptop,7,2100,14700,France,Europe
4
```

▼ Preview

This screenshot shows the Microsoft Azure Storage Explorer interface, similar to the previous one but for a different blob named 'Europe'. The file content is a CSV-like text file with four rows of data. The first row contains column headers: 'id', 'FullName', 'ProductName', 'ItemsSold', 'SoldPrice', 'Total_Sales', 'Country', and 'Region'. Subsequent rows provide data points for products sold in Europe. The interface includes standard Azure navigation and management tools like Save, Discard, Download, Refresh, and Delete, along with tabs for Overview, Versions, Snapshots, Edit (selected), and Generate SAS.

Microsoft Azure ...

Home > prithstore | Containers > sink >

NorthAmerica

Blob

Save Discard Download Refresh Delete

Overview Versions Snapshots Edit Generate SAS

⚠ The file 'NorthAmerica' may not render correctly as it contains an unrecognized extension.

```
1 id,FullName,ProductName,ItemsSold,SoldPrice>Total_Sales,Country,Region
2 4,John Rivers,Laptop,5,2400,12000,USA,North America
3 3,Christy Ladson,TV,3,1600,4800,USA,North America
4 2,M Raza,Mobiles,2,800,1600,USA,North America
5 1,Aamir Shanzad,TV,1,700,700,USA,North America
```

▼ Preview

