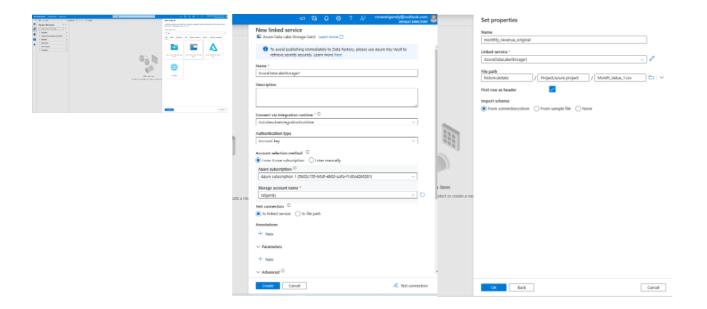
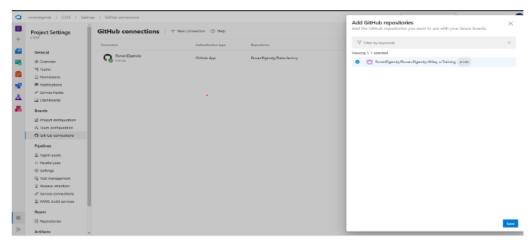
## **Azure Project Steps/Demo**

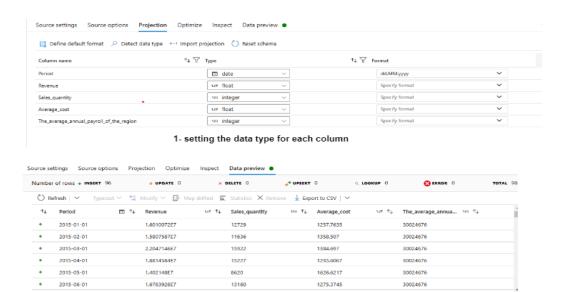
**Obj:** Use Data Flow to move data to Azure Data Lake Storage or Azure Blob Storage. Use Databricks to read and write data from and to these data stores, and also perform advanced analytics and machine learning tasks.



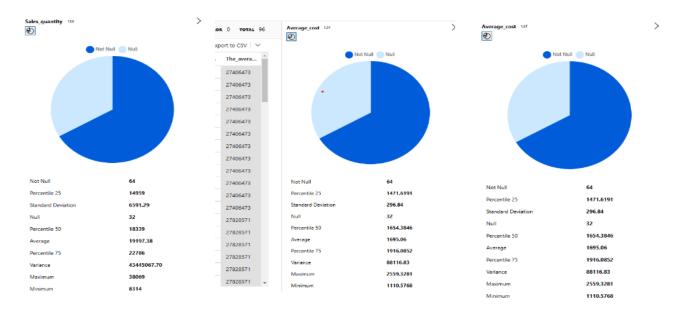
Setting up the Linked Services



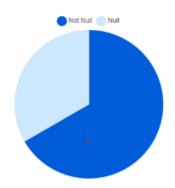
Git configuration/integration to Git Repo from organisation settings after adding new Repo in Git



2- Data preview



3- Dataset Description/Statistics



Not Null 6

Percentile 25 **2.2367074E7**Standard Deviation **11641498.36** 

Null 32

 Percentile 50
 3.1650092E7

 Average
 32360452.23

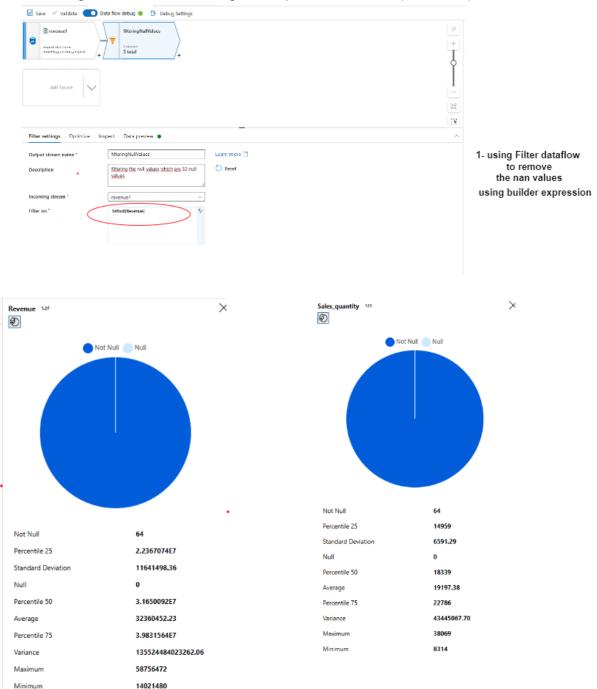
 Percentile 75
 3.9831564E7

Variance 135524484023262.06

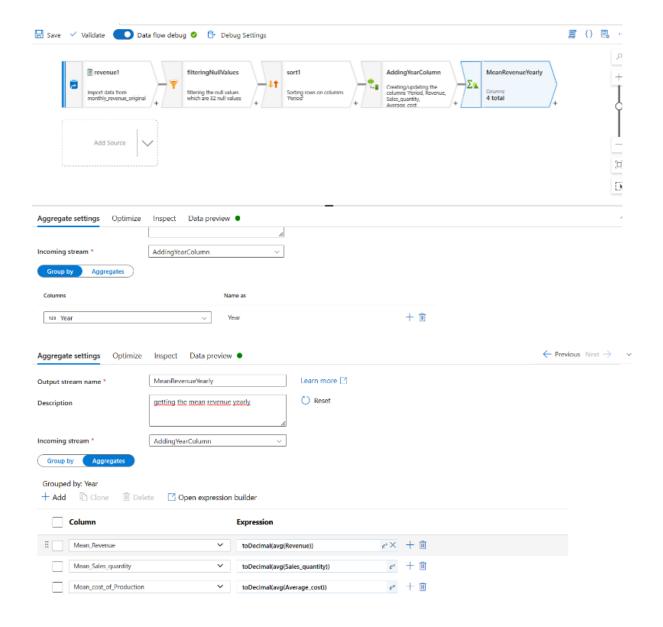
Maximum 58756472 Minimum 14021480

## **Data cleaning**

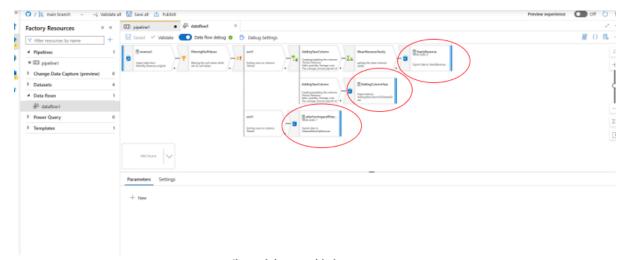
- Check the nan values from each column using the statistics above
- Using Filter data flow using the expression: !isNull(Revenue)



2- Columns after filtering has zero Null values



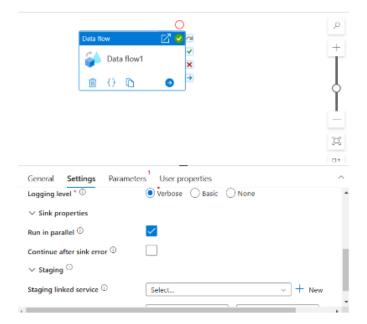
Getting the Avg of all columns per year using the aggregate transformation



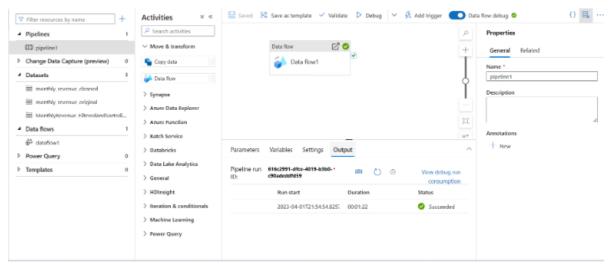
three sinks are added: afterSortingandFiltering AddingColumnYear yearlyAvgRevenue



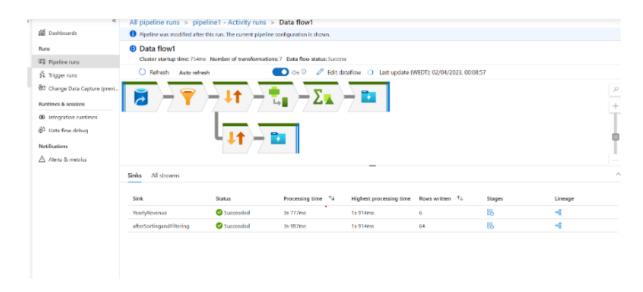
Writing the order of the three sinks



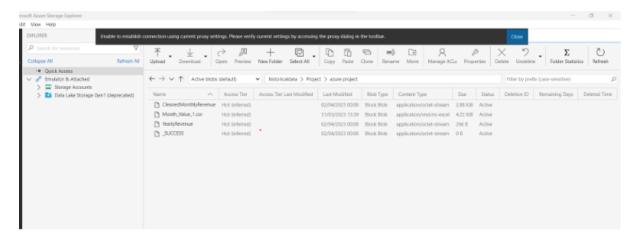
Creating new pipeline with our dataflow setting the sinks to run in parallel



Debugging the pipeline



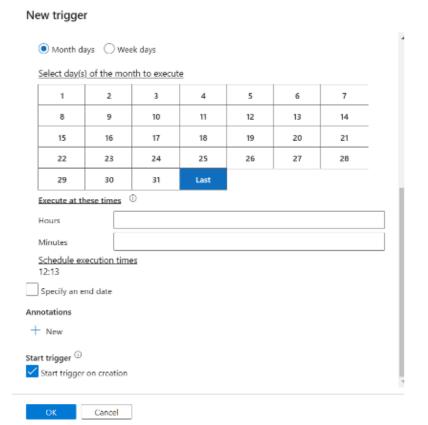
Dataflow Debugging Dashboard after enabling the debug



the 3 Sinks have been added to the azure storage after debugging the pipeline

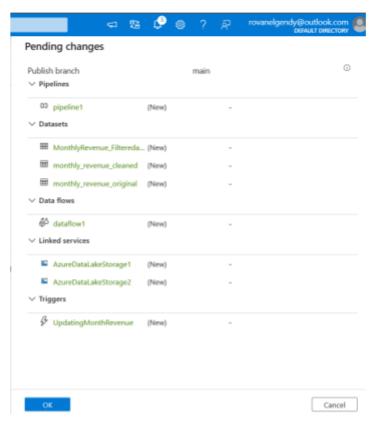


adding trigger to be triggered monthly

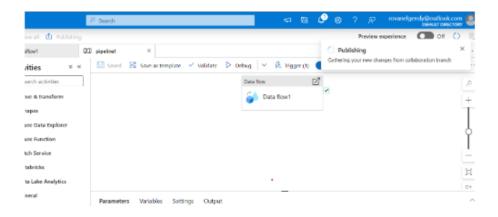


Setting the trigger

## Setting the trigger

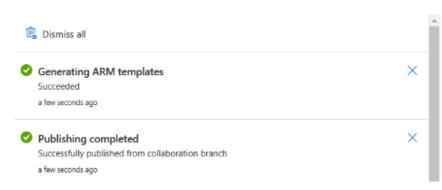


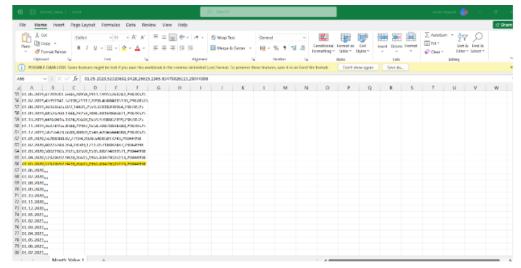
Saved and to be published



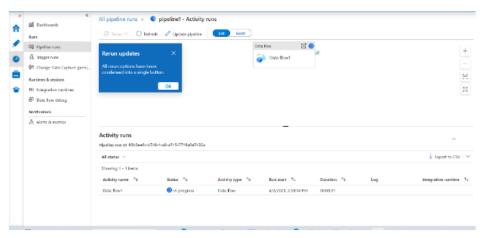
published

## Notifications

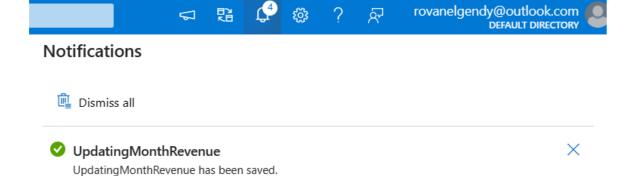




Updating the original dataset by one row



pushing the trigger we made earlier manually

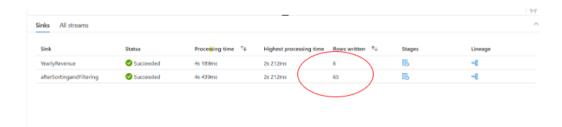


Trigger success notification

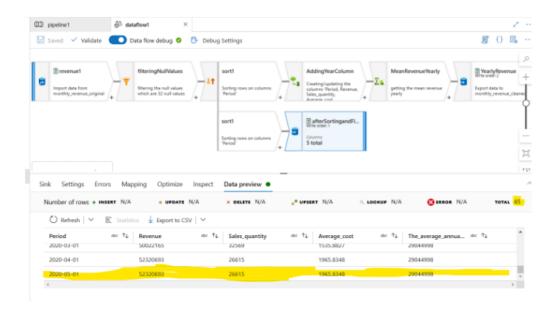
a few seconds ago



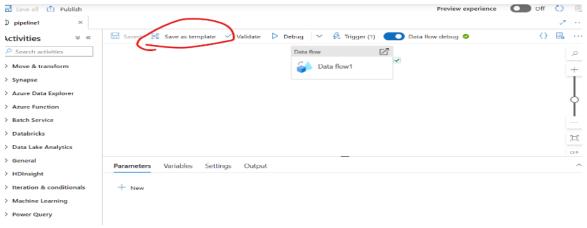




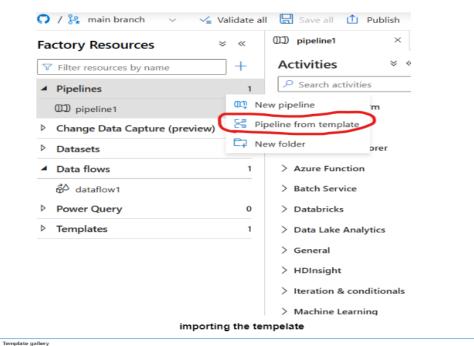
here we can see after trigger the rows read is updated to 65 rows instead of 64 rows



the updated row in the data preview



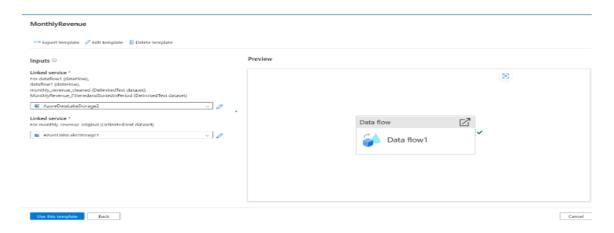
You can save the pipeline as template to import later

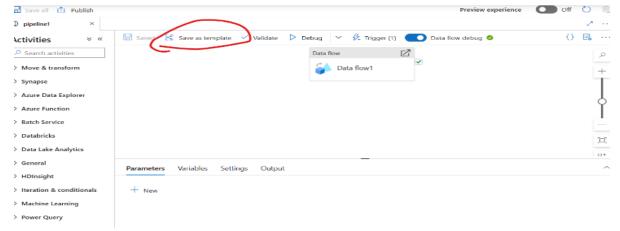


Cottografies: AN Contributor: AN Constitut by: AN bigs: A

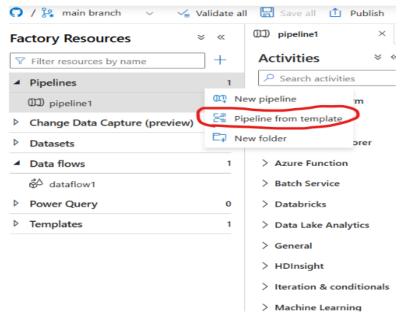


the tempelate gallery





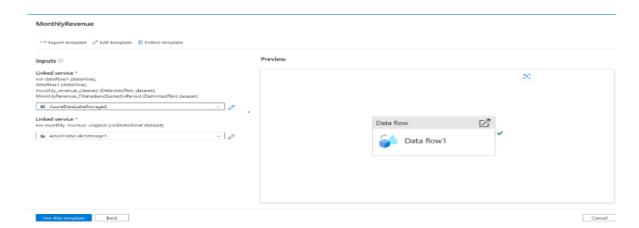
You can save the pipeline as template to import later

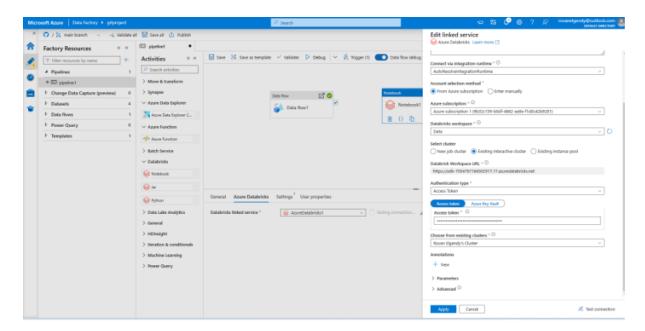


importing the tempelate

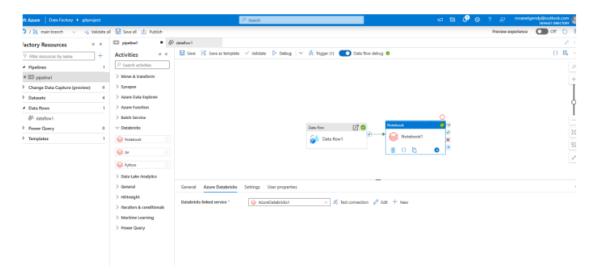


the tempelate gallery

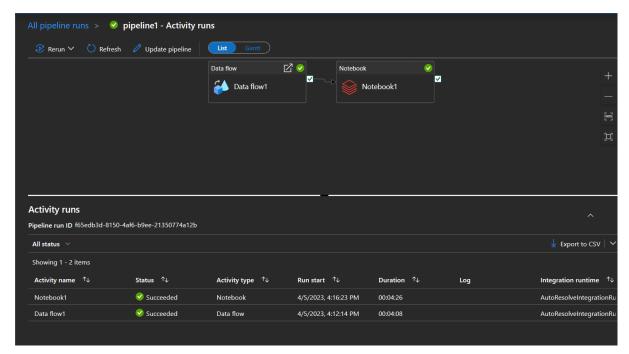




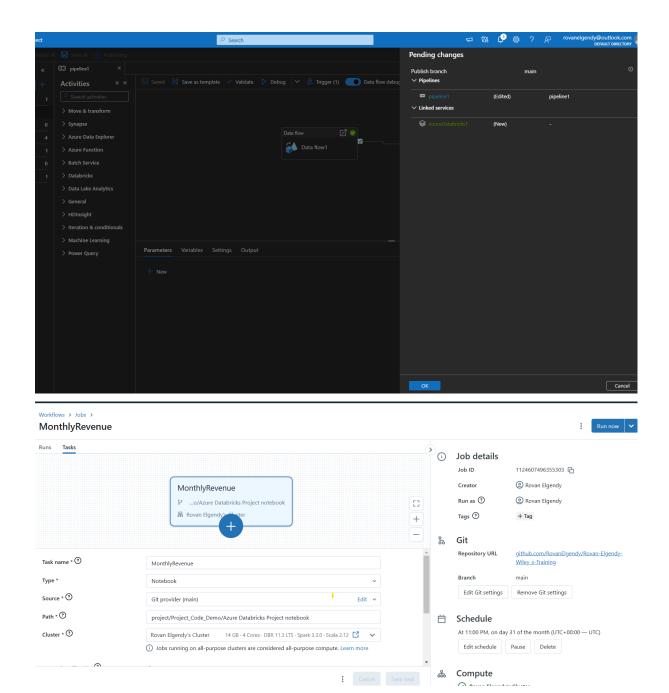
Adding Databricks Service using existing cluster and the access token



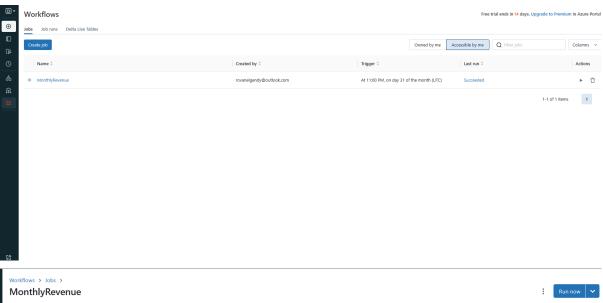
Adding databricks notebook -which is already made in different file- to our dataflow

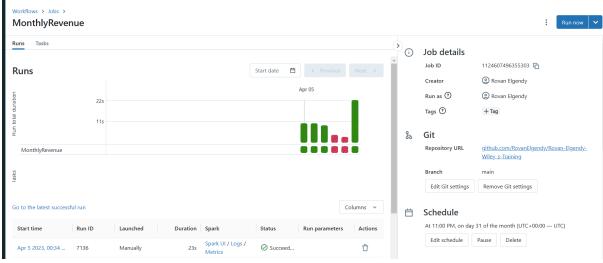


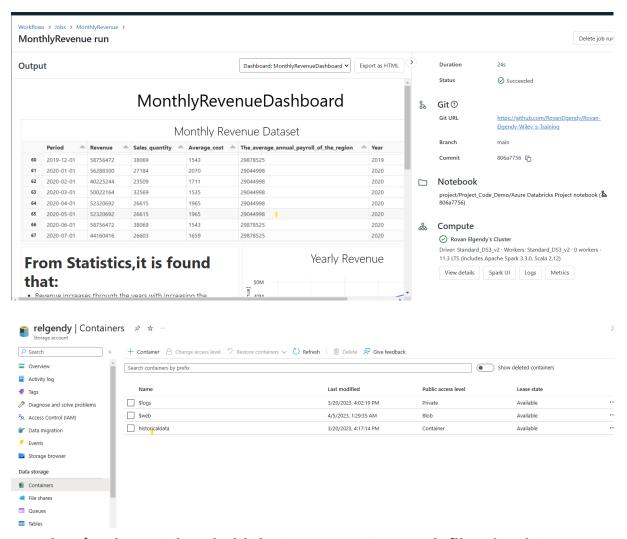
**Triggering the pipeline** 



creating workflow job in databricks







<u>creating \$web container in blob storage to store web files .html to present the workflow of the project.</u>