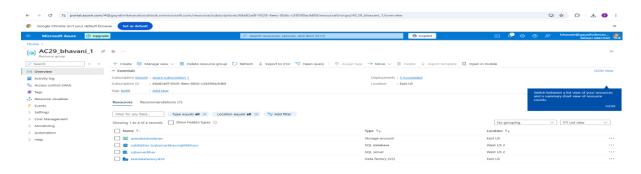
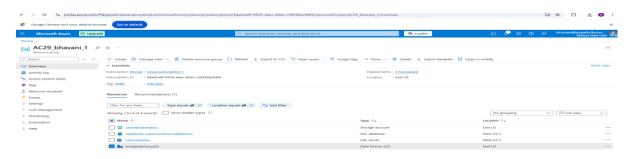
Homework | Cycle 29 | Session 12

- create dynamic pipeline which loads multiple tables from azure sql database to Adls gen2
- create dynamic pipeline which loads multiple tables from azure sql database to
 Adls gen2
- Login into portal.azure.com and go to your resource group



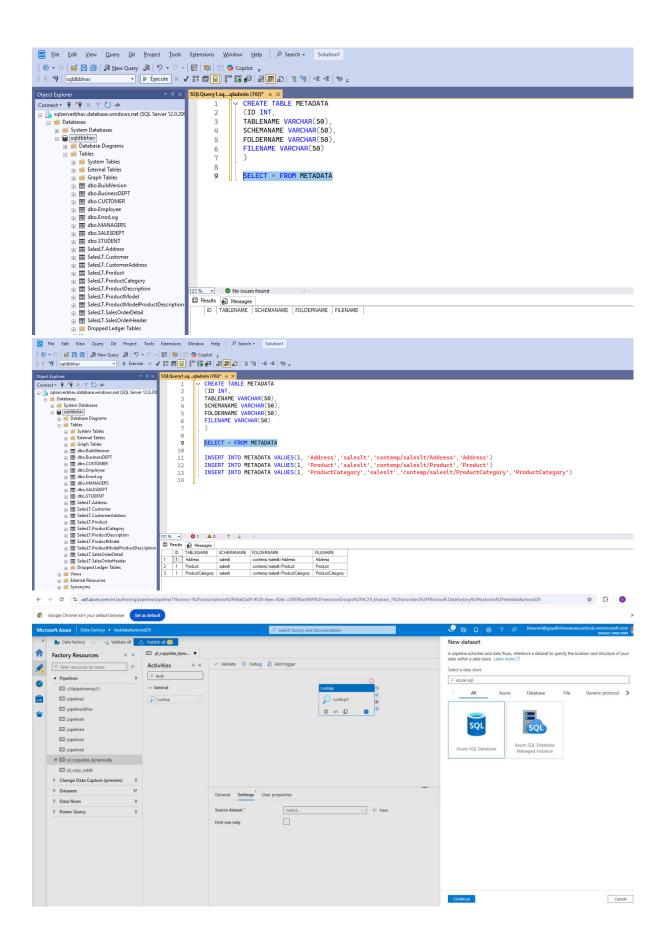
Go to your Data factory and open

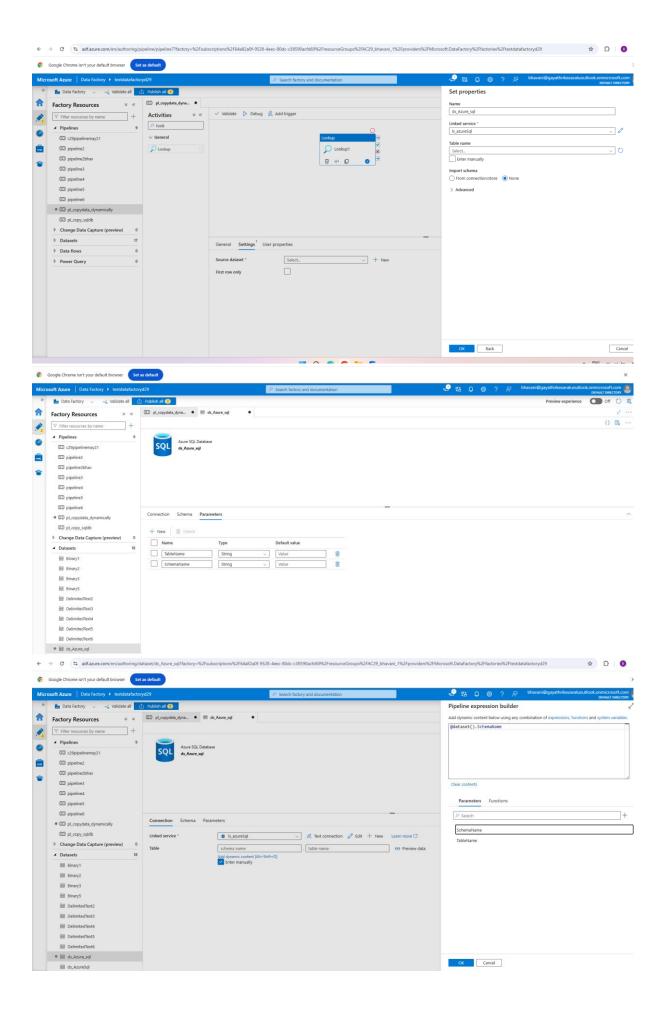


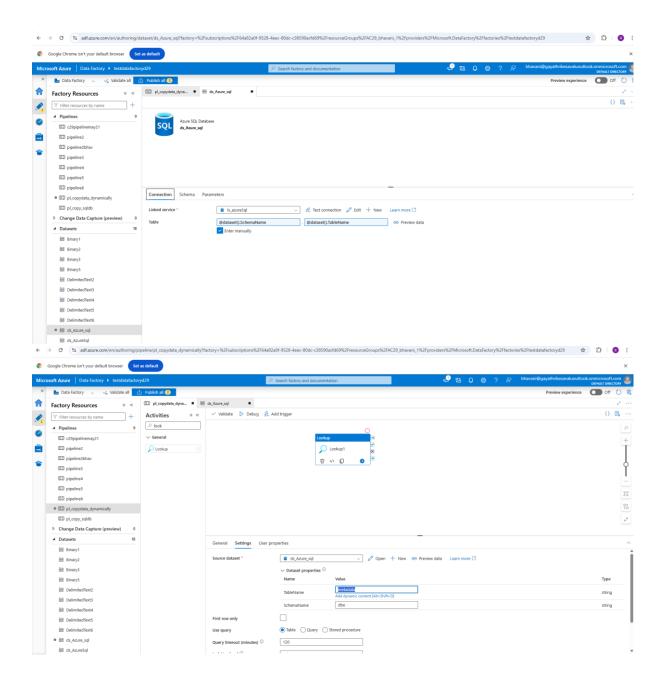
Steps:

- In this activity we are bring data for multiple tables using single pipeline
- For this create 1st METADATA table in Azure Sqldb and insert data into created meta data table with detaqils of ID, Tablename, foldername, filename.
- Create a lookup activity in ADF which brings metadata table information details and displays into json format file as output.
- In the settings tab uncheck the First row only check box and provide the source dataset details by clciking on New button.
- Select the azure sql db from dataset and click on continue in the **Set Properties** window provide the dataset name and linked service details.
- Select linked service and dont select the table name from the list as we are passing dynamic values and click on ok

- To create parameters i should go to parametrs level so click on open button from dataset, it will open a tab of connection, schema and Parameters tabs.
- Go to Parameters session 1. Table Name, Schema Name, then go to connection tab as we have to pass those parameters whatever we created in Parameters tab.
- Click enter manaually, click on Table name box, you will be able to see dynamic option agnd select schema and table name pagrameters as shown in snaps.
- Then go to your pipeline and provide the table name and schema name and click on debug.
- You will be able to see the input and output files after the pipeline runs completed successfully
- So lookup will bring the metadata whatever we created azure sql database in the json format.
- The json output we will be passing in the similarr way to next activity (for each)
- Step2: Take foreach activity and pass look up activity output to foreach input
- Click on lookup activity on **success button** as shown in picture and drag it to foreach activity input.
- Go to foreach settings tab and clcik on Items box and clcik on Add dynamic content there you will be able to see lookup activity outputs and select last option Look up value array
- Click on Edit button from inside foreach activity (pencil icon) as shown below
- And select your Copy activity inside foreach as below
- Go to source tab and select your dataset from source dataset dropdown
- Now select parametrs from foreach (we will get parameters from foreach) and clock on tablename and click dynamic content and select foreach option
- As my main parameters from json file is TABLENAME and SCHEMANAME, i will add beside to item as .TABLENAME for TableName and .SCHEMANAME for Schema name and click on OK.
- Go to Sink tab, as we are loading data to Adls gen2, so will select the connector and select CSV format
- and click on edit to provide the parameters as foldername and filename then go to connection tab
- Provide @concat(dataset().FileName, '.csv') as format
- Open copydata pipeline and give the values as parameters of foldername and filename as shown below
- Save the pipeline and publish it and Click on debug
- Files are placed to GEN2



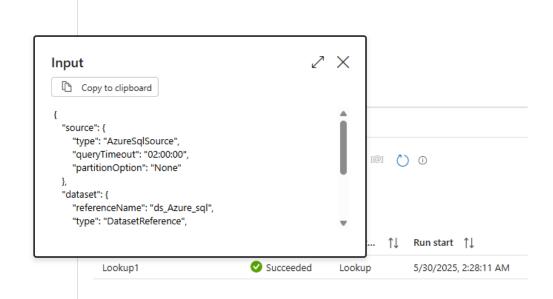


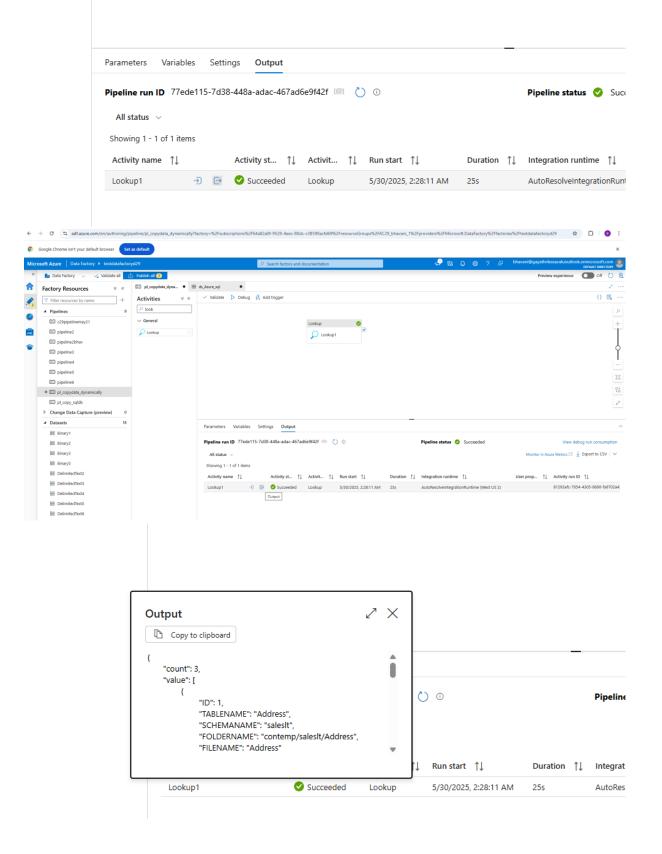


Input

```
Copy to clipboard

{
    "source": {
        "type": "AzureSqlSource",
        "queryTimeout": "02:00:00",
        "partitionOption": "None"
},
    "dataset": {
        "referenceName": "ds_Azure_sql",
        "type": "DatasetReference",
        "parameters": {
            "TableName": "metadata",
            "SchemaName": "dbo"
        }
},
    "firstRowOnly": false
}
```





```
Output
```

```
Copy to clipboard
       "count": 3,
       "value": [
            {
                   "ID": 1,
                    "TABLENAME": "Address",
                   "SCHEMANAME": "salesit",
"FOLDERNAME": "contemp/salesit/Address",
"FILENAME": "Address"
                   "ID": 1.
                    "TABLENAME": "Product",
                   "SCHEMANAME": "salesit",
"FOLDERNAME": "contemp/salesit/Product",
"FILENAME": "Product"
            },
{
                   "ID": 1.
                    "TABLENAME": "ProductCategory",
                   "SCHEMANAME": "salesit",
"FOLDERNAME": "contemp/salesit/ProductCategory",
"FILENAME": "ProductCategory"
       ].

"effectiveIntegrationRuntime": "AutoResolveIntegrationRuntime (West US 2)",

"billingReference": {
    "activityType": "PipelineActivity",
    "billableDuration": [
                  {
                         "meterType": "AzureIR",
"duration": 0.0166666666666666666,
                         "unit": "Hours"
                  }
              "total Billable Duration": [
                         "meterType": "AzureIR",
"duration": 0.0166666666666666666,
                         "unit": "Hours"
                  }
            ]
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Google Chrome isn't your default browser Set as default
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      ▼ Filter resources by name

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∨ Move and transform

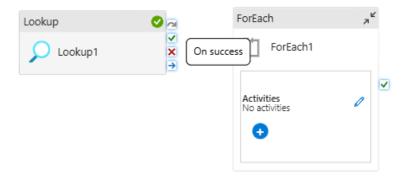
=
        D pipeline2
                                               Copy data
                                                                                                                      Cookup1
                                                                                                                                                     ForEach1
         D pipeline2bhav
                                               Data flow
                                                                                                                                                     Activities
No activities

✓ Iteration & conditionals

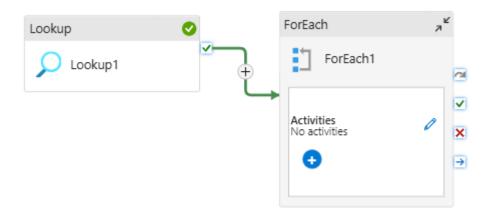
         D pipeline4
                                              ForEach
         D pipeline5
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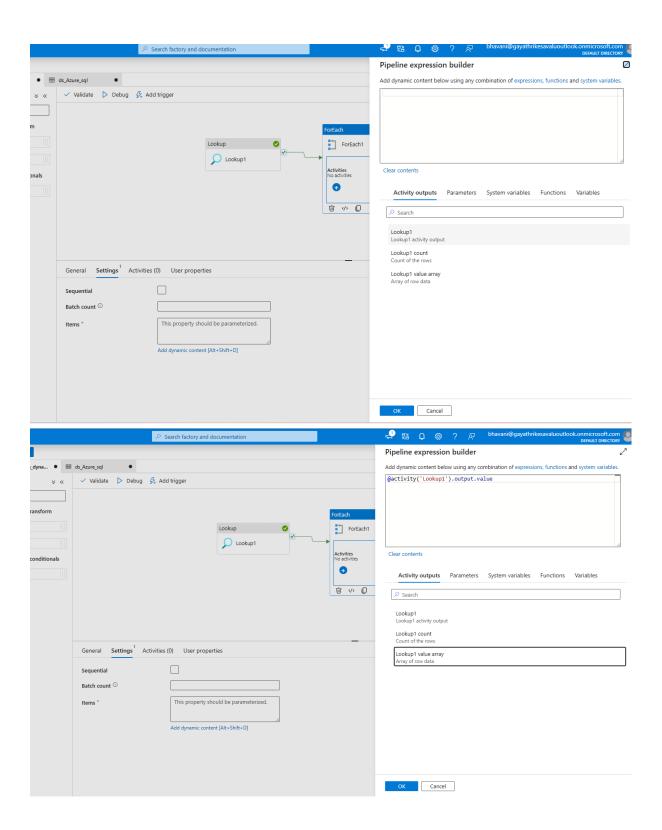
    pl_copydata_dynamically

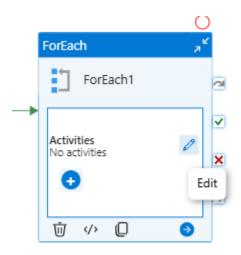
         D pl_copy_sqldb
       Change Data Capture (preview)
                                                                          General Settings Activities (0) User properties
         ∰ Binary1
                                                                                                       ForEach1
         ⊞ Binary2
         ⊞ Binary3
         ⊞ DelimitedText2
                                                                          Activity state ①
                                                                                                       iii DelimitedText5
         iiii DelimitedText6
       • i ds_Azure_sql
```

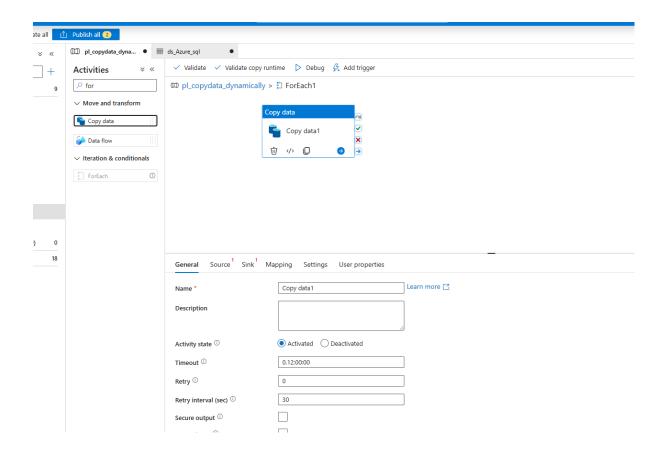


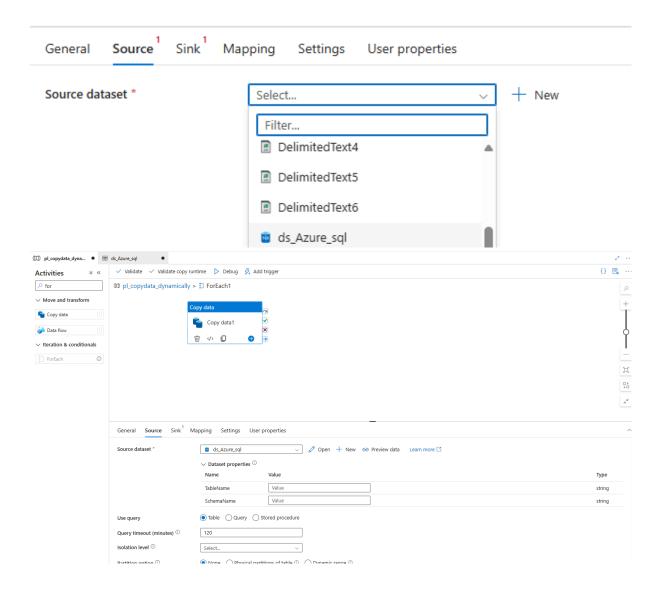
Click on lookup activity on **success button** as shown in picture and drag it to foreach activity input.

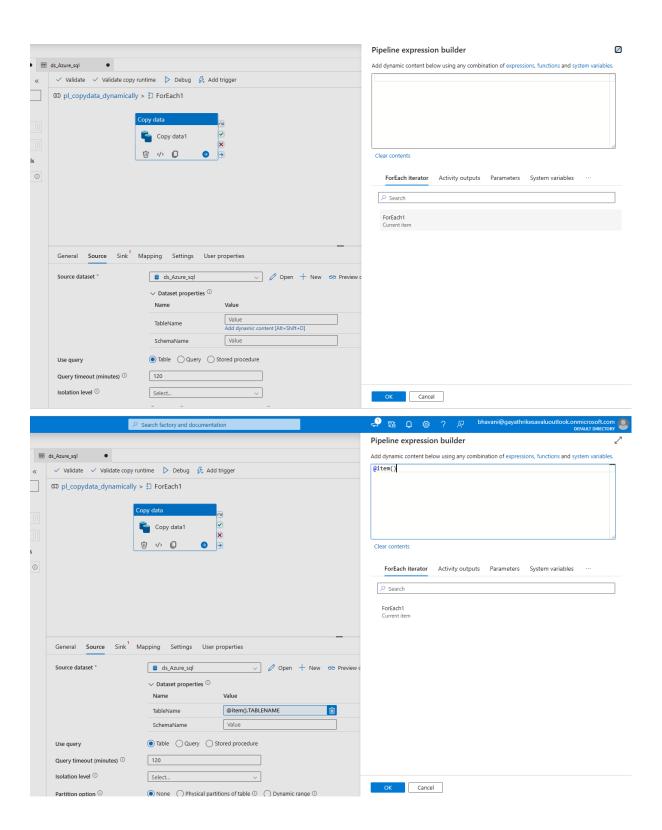


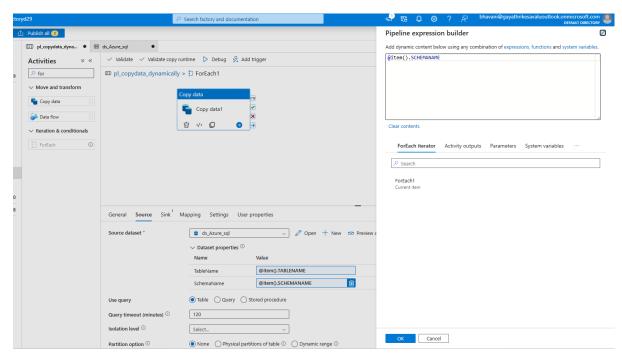


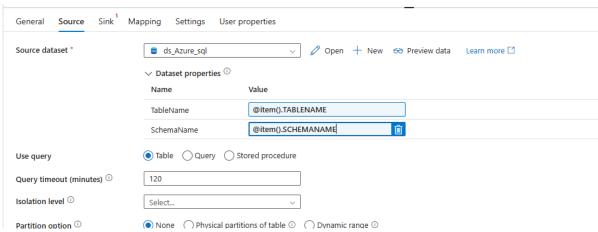


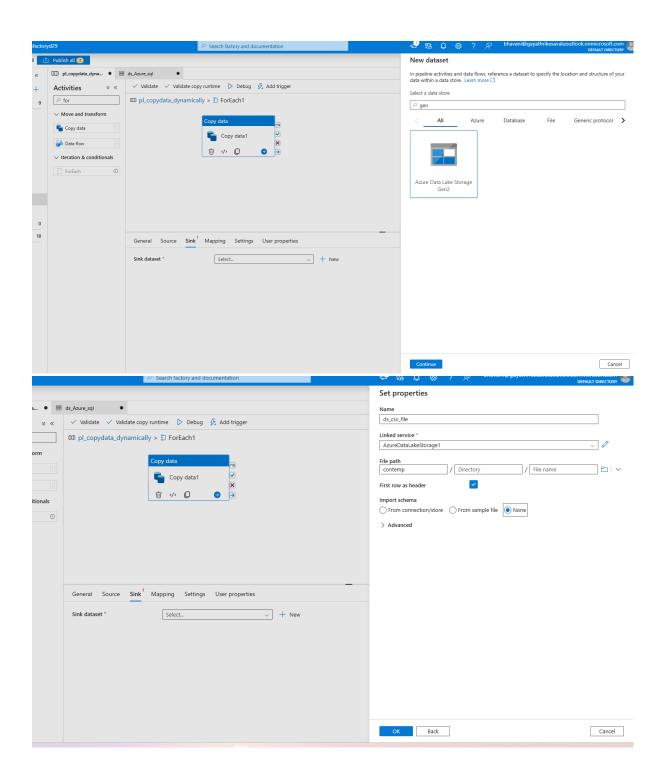


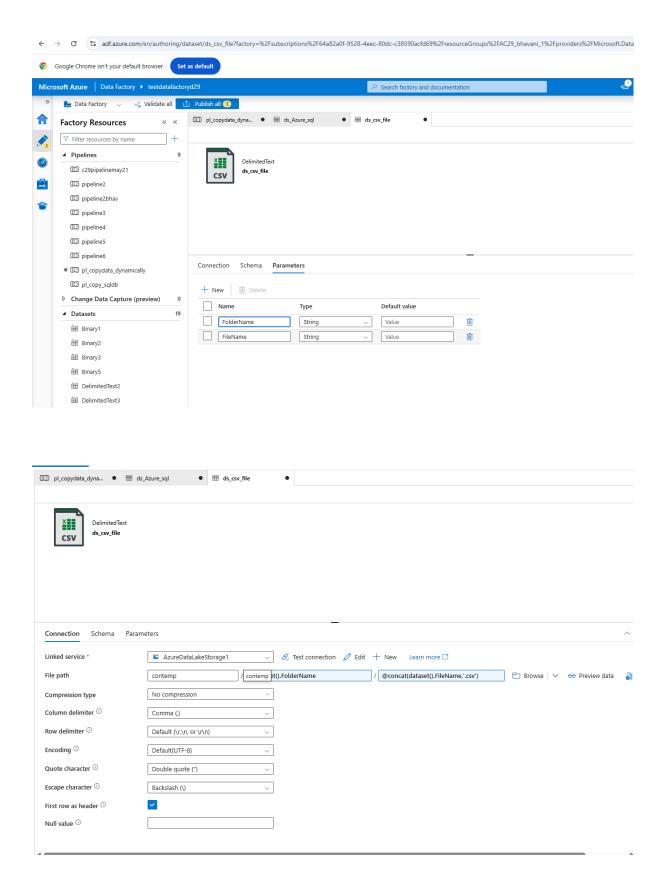


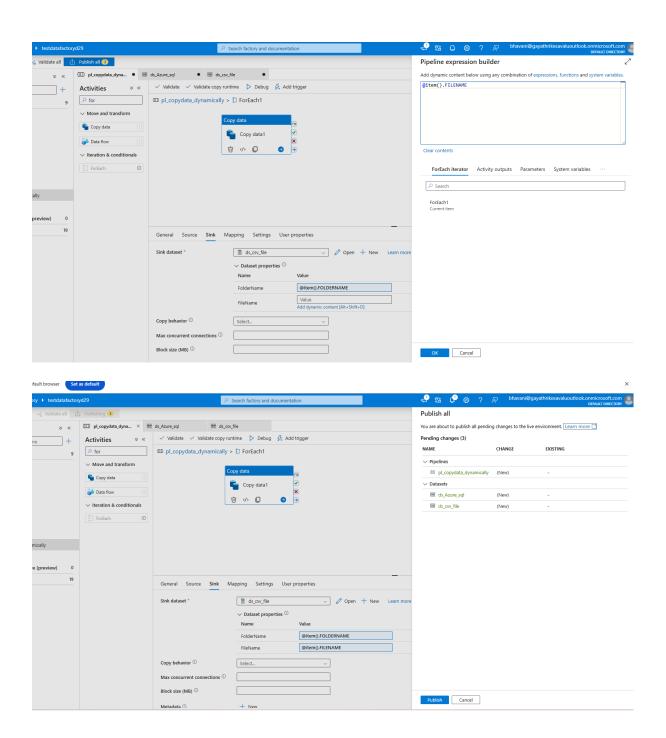


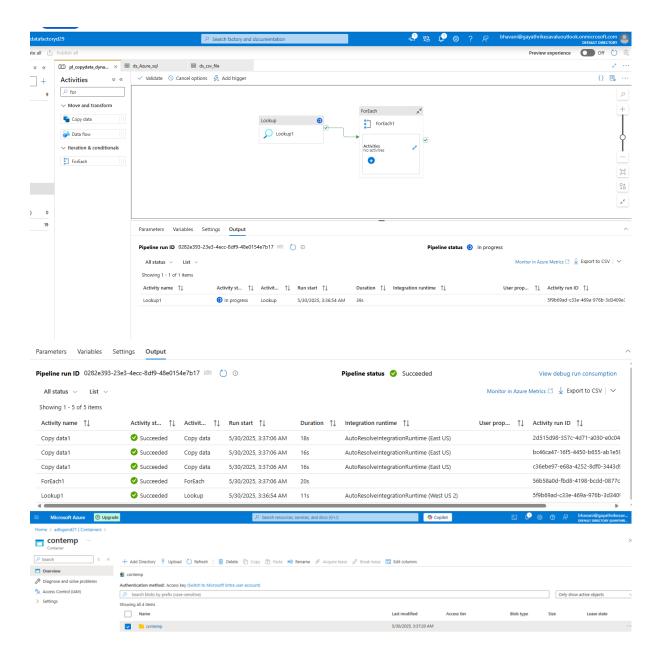


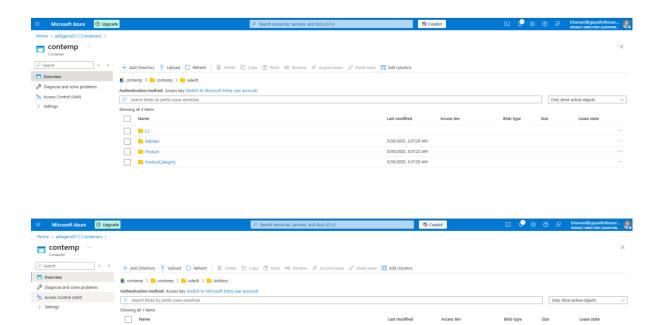












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[-] Address.csv