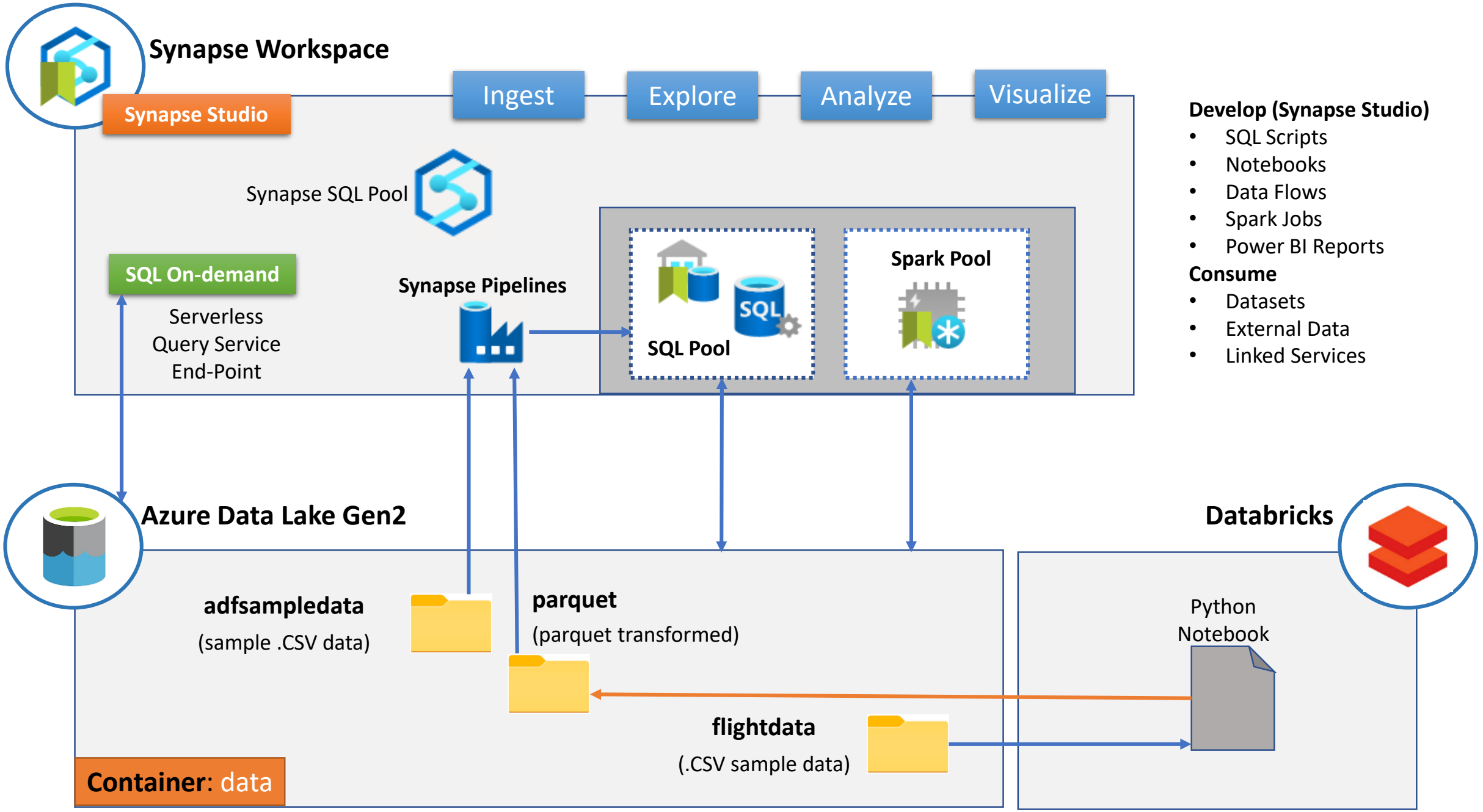
Azure Resources

Name	Type
sparkpooldemo (synapsewspoc/sparkpooldemo)	Apache Spark pool
databricks_ws_premium	Azure Databricks Service
sqlpooldemo (synapsewspoc/sqlpooldemo)	SQL pool
adlsstoragev2	Storage account
gen2storage4synapsews	Storage account
synapsewspoc	Synapse workspace


Synapse Workspace
Synapse Studio
Ingest
Explore
Analyze
Visualize
Synapse SQL Pool
SQL On-demand
Serverless
Query Service
End-Point
Synapse Pipelines
SQL Pool
Spark Pool
Develop (Synapse Studio)
• SQL Scripts
• Notebooks
• Data Flows
• Spark Jobs
• Power BI Reports
Consume
• Datasets
• External Data
• Linked Services
Azure Data Lake Gen2
Databricks
adfsampledata
(sample .CSV data)
parquet
(parquet transformed)
Python
Notebook
flightdata
(.CSV sample data)
Container: data

Demo Steps

1. **Transform Data to Parquet Format**
   - Start Databricks Spark Cluster.
   - Run **demo** Notebook to transform flight data in Gen2 storage into Parquet format
2. **SQL On-Demand Query** (SQL Script #1)
3. **Spark-Pool Query** (Notebook #1)
4. **Synapse Pipeline to Load Data**
   - Start SQL Pool named **sqlpooldemo**
   - Run SQL Script #2 (Connect To SQL-Pool)
   - Run Synapse Pipeline (Pipeline 1)
5. **Execute SQL-Pool Query** (SQL Script #3)