

Azure Databricks with Azure Data Factory

ETL Modernization using Azure Databricks and Azure Data Factory

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A simple example depicting commonly used ETL activities like: (1) Joining Two Datasets (2) Renaming Column (3) Creating a new column with a computed value.

Source Data:



Two .csv files on Azure Blob - "Sales.csv" & "Product.csv"

ETL Activities:

Use an Azure Databricks Python Notebook to perform these transformation tasks.

• Mount an Azure Blob Storage container as DBFS

Messaging

• Access files in your container as if they were local files

```
%python

df_sales = sqlContext.read.format('csv').options(header='true', inferSch
df_products = sqlContext.read.format('csv').options(header='true', infer
```

• Join two dataframes; Rename column and sort; Create ne

| (1) Spark Jobs | (1)

Target Table:







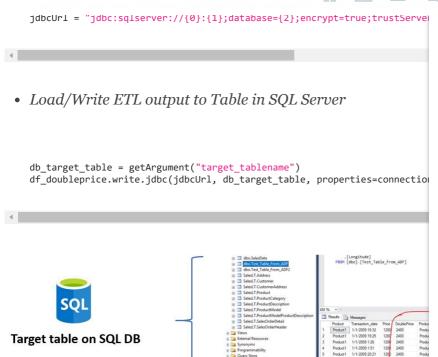








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A database table (with name based on value of parameter "targe created or updated in the SQL Server database. This table is the resulting table in the square of parameter "targe" created or updated or updated in the square of parameter "targe" created or updated or updated

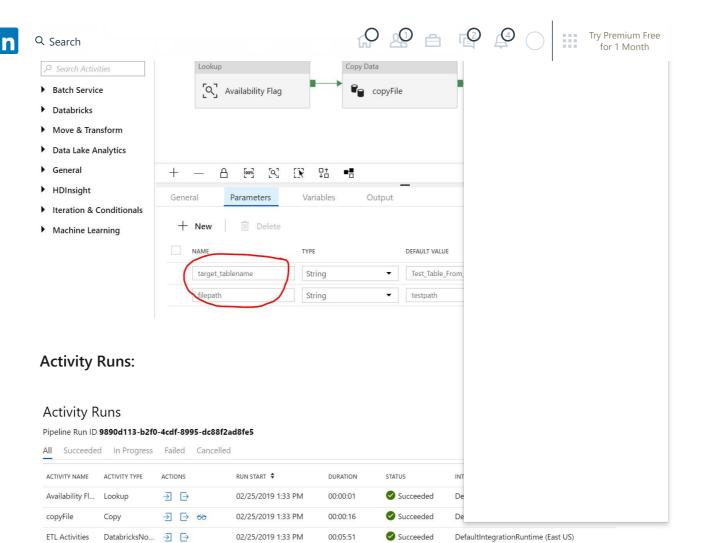
"Sales.csv" & "Product.csv" + renaming of "Description" column + creation of new computed column "DoublePrice".

Orchestration using Azure Data Factory:

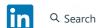
Pipeline:

- Lookup activity: to check for source data availability at directory location
- Copy activity: to copy processed files into different directory location
- Databricks Notebook activity: ETL tasks and load data into SQL Database

Two parameters are passed from Azure Data Factory to Azure Databricks - "filepath" & "target_tablename"



Databricks Job:





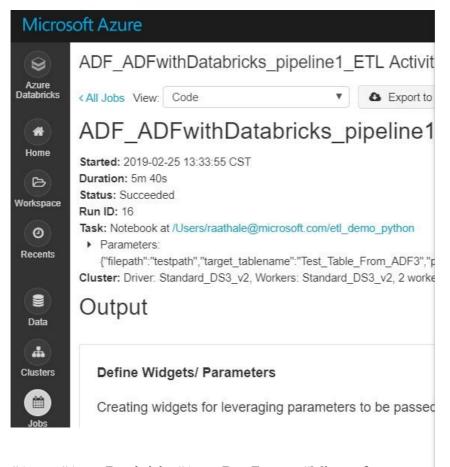








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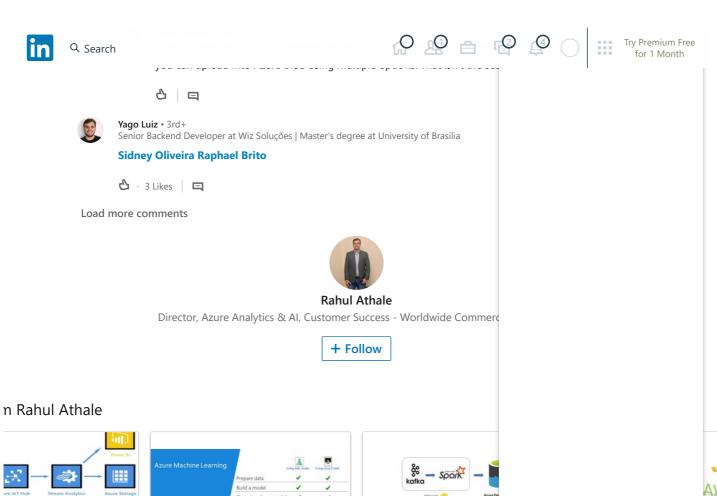


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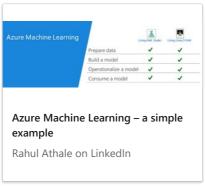
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