1) Creacion del script en una carpeta nueva: home/nifi/scripts

Agrego permisos de ejecución al script

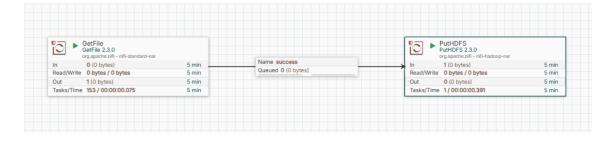
nifi@468dca6ff6f6:~/scripts\$ chmod +x descargar_datos.sh

Realizo la descarga:

Compruebo que la descarga fue exitosa:

```
nifi@468dca6ff6f6:~$ cd ingest
nifi@468dca6ff6f6:~/ingest$ ls
yellow_tripdata_2021-01.parquet
nifi@468dca6ff6f6:~/ingest$
```

2) Creo el job en nifi:



Processor Details | GetFile 2.3.0

Settings Scheduling Properties

Required field

| Property | | Value | í |
|------------------------|---|---------------------------------|---|
| Input Directory | 0 | /home/nifi/ingest | |
| File Filter | 0 | yellow_tripdata_2021-01.parquet | |
| Path Filter | 0 | No value set | |
| Batch Size | 0 | 10 | |
| Keep Source File | 0 | false | |
| Recurse Subdirectories | 0 | true | |
| Polling Interval | 0 | 0 sec | 4 |

Processor Details | PutHDFS 2.3.0

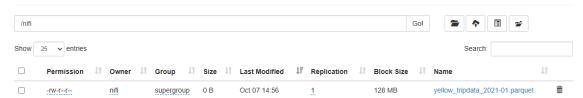


Required field



Podemos ver que se descargo correctamente:

Browse Directory



```
df = spark.read.option("header", "true").parquet("/nifi/yellow_tripdata_2021-01.parquet")
>>> df.p
df.persist(
                        df.printSchema(
>>> df.printSchema()
root
       VendorID: long (nullable = true)
       tpep_pickup_datetime: timestamp (nullable = true)
       tpep_dropoff_datetime: timestamp (nullable = true)
       passenger_count: double (nullable = true)
trip_distance: double (nullable = true)
       RatecodeID: double (nullable = true)
RatecodeID: double (nullable = true)
store_and_fwd_flag: string (nullable = true)
PULocationID: long (nullable = true)
DULocationID: long (nullable = true)
payment_type: long (nullable = true)
fare_amount: double (nullable = true)
extra: double (nullable = true)
     - extra: double (nullable = true)
       mta_tax: double (nullable = true)
       tip_amount: double (nullable = true)
       tolls_amount: double (nullable = true)
       improvement_surcharge: double (nullable = true)
       total_amount: double (nullable = true)
  -- congestion_surcharge: double (nullable = true)
-- airport_fee: double (nullable = true)
>>> df.createOrReplaceTempView("v_df")
```

3.1 A

В

3.2

3.4

3.5

3.6

```
>>> df_rate = spark.sql("select RateCodeID, round(SUM(total_amount),2) as monto_total, round(avg(total_amount),2) as monto_promedio from v_df where RateCodeID != 6 group by RateCodeID")
>>> df_rate.show()

| 1.0 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.
```