Ejercicios:

Mostrar las tablas de la base de datos northwind

```
hadoop@615cf53bef6c:/$ sqoop list-tables \
bc:postgresql://172.17.0.3:5432/> --connect jdbc:postgresql://172.17.0.3:5432/northwind \
> --username postgres -P
Warning: /usr/lib/sqoop/../hbase does not exist! HBase imports will fail.
Please set $HBASE_HOME to the root of your HBase installation.
Warning: /usr/lib/sqoop/../hcatalog does not exist! HCatalog jobs will fail.
Please set $HCAT_HOME to the root of your HCatalog installation.
Warning: /usr/lib/sqoop/../accumulo does not exist! Accumulo imports will fail.
Please set $ACCUMULO_HOME to the root of your Accumulo installation.
Warning: /usr/lib/sqoop/../zookeeper does not exist! Accumulo imports will fail.
Please set $ZOOKEEPER_HOME to the root of your Zookeeper installation.
2025-09-23 21:32:32,953 INFO sqoop.Sqoop: Running Sqoop version: 1.4.7
2025-09-23 21:32:36,761 INFO manager.SqlManager: Using default fetchSize of 1000
territories
order_details
employee_territories
us_states
customers
orders
employees
shippers
products
categories
suppliers
region
customer_demographics
customer_customer_demo
customers3
hadoop@615cf53bef6c:/$
```

Mostrar los clientes de Argentina

3) Importar un archivo .parquet que contenga toda la tabla orders. Luego ingestar el archivo a HDFS (carpeta /sqoop/ingest)

```
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```

A continuación mostramos el contenido de /sqoop/ingest y luego renombramos el archivo como **orders.parquet**

4) Importar un archivo .parquet que contenga solo los productos con mas 20 unidades en stock, de la tabla Products . Luego ingestar el archivo a HDFS (carpeta ingest)

```
hadoopp615cf53bef6c:-$ sqoop import —connect jdbc:postgresqt://172.17.0.3.5932/northwind —username postgres —table products —m 1 —P —target-dir /sqoop/ingest —as-parquetfile —mhere units_in_tack: > 20 — odelete-target-dir will lBace imports mill fail.

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Marning: /usr/lib/sqoop/./scoop.//scalaog does not exist! Macunal imports mill fail.

Marning: /usr/lib/sqoop/./scoop./sqoop: Manuning sqoop version.

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```

Mostramos el contenido de /sqoop/ingest y renombramos el archivo parquet a **productos_mas_de_20.parquet**

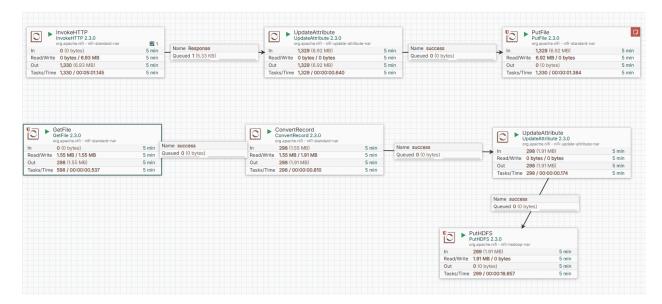
```
hadoop@615cf53bef6c:-$ hdfs dfs -ls /sqoop/ingest
Found 3 items
drwxr-xr-x - hadoop supergroup 0 2025-09-23 23:13 /sqoop/ingest/.metadata
drwxr-xr-x - hadoop supergroup 0 2025-09-23 23:14 /sqoop/ingest/.signals
-rw-r--r-- 1 hadoop supergroup 4974 2025-09-23 23:14 /sqoop/ingest/62dfddfd-43a0-4395-ae1c-28bd72da56c1.parquet
hadoop@615cf53bef6c:-$ hdfs dfs -mv /sqoop/ingest/62dfddfd-43a0-4395-ae1c-28bd72da56c1.parquet /sqoop/ingest/productos_mas_de_20.parquet
hadoop@615cf53bef6c:-$ hdfs dfs -ls /sqoop/ingest
Found 3 items
drwxr-xr-x - hadoop supergroup 0 2025-09-23 23:13 /sqoop/ingest/.metadata
drwxr-xr-x - hadoop supergroup 0 2025-09-23 23:14 /sqoop/ingest/.signals
-rw-r-r--- 1 hadoop supergroup 4974 2025-09-23 23:14 /sqoop/ingest/productos_mas_de_20.parquet
hadoop@615cf53bef6c:-$
```

```
File System Counters
File: Number of bytes read=0
File: Number of bytes written=276233
File: Number of eyes written=276233
File: Number of large read operations=0
File: Number of large read operations=0
HDFS: Number of bytes read=14444
HDFS: Number of bytes read=14444
HDFS: Number of bytes read=14444
HDFS: Number of large read operations=0
HDFS: Number of large read operations=0
HDFS: Number of varit eoperations=0
HDFS: Number of varit eoperations=0
HDFS: Number of bytes read erasure-coded=0
Job Counters

Launched map tasks=1
Other local map tasks=1
Other local map tasks=1
Total time spent by all maps in occupied slots (ms)=7856
Total time spent by all map tasks (ms)=7856
Total time spent by all map tasks (ms)=7856
Total time spent by all map tasks (ms)=7856
Total megabyte-milliseconds taken by all map tasks=12066816
Map-Reduce Framework
Map input records=48
Map output records=48
Map output records=48
Input split bytes=87
Spiled Records=0
Failed Shuffles=0
Failed Shuffl
```

Practica Nifi

Crear el ambiente de nifi e ingestar el archivo starwars.csv, luego convertirlo a starwars.avro y guardarlo en la carpeta de HDFS: /nifi



El siguiente screenshot confirma que funciona la primera rama el piplane:

```
nifi@1647add278ce:~/hdfs$ ls

core-site.xml hdfs-site.xml

nifi@1647add278ce:~/hdfs$ cd ...

nifi@1647add278ce:~$ ls

hdfs tmp

nifi@1647add278ce:~$ cd tmp

nifi@1647add278ce:~/tmp$ ls

starwars.csv
```

El ultimo screenshot confirma que funciona la segunda rama del piplane:

```
hadoop@615cf53bef6c:~$ hdfs dfs -ls /nifi
Found 1 items
-rw-r--r- 1 nifi supergroup 6706 2025-09-24 20:57 /nifi/starwars.avro
hadoop@615cf53bef6c:~$
```