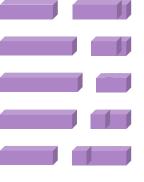


Diplomado en Ciencia de Datos UNAM Modulo 13 Uso de Spark Y Hadoop

Alumno: Sergio Ibarra Ramírez



Contenido

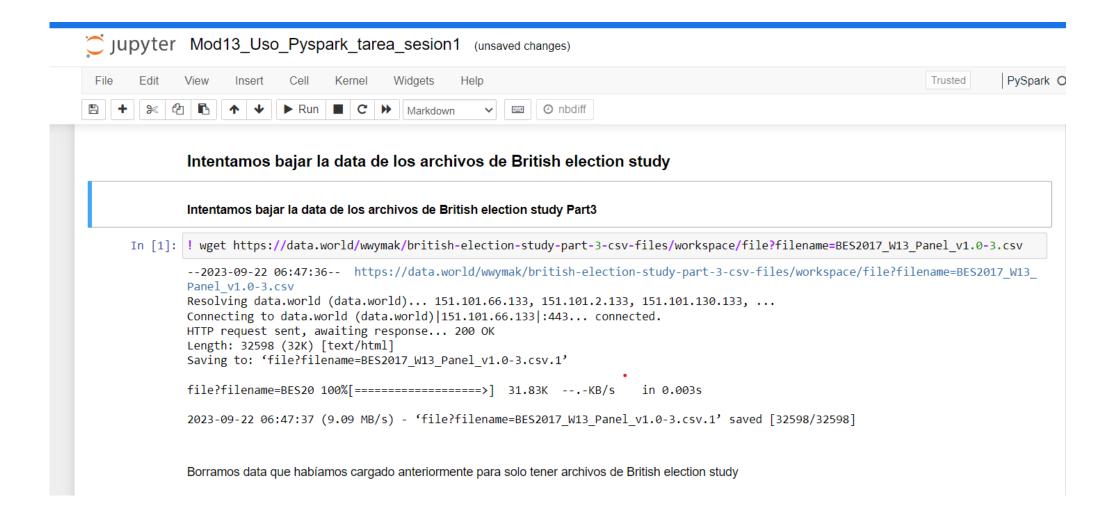
- 1. Descargar varios archivos referente a un tema en particular
- 2. Cargar los archivos al cluster de HADOOP
- 3. Crear un Data Frame en Spark
- 4. Hacer cambios al data frame (columnas o renglones)
- 5. Guarda el nuevo DF en HDFS y en el Bucket
- 6. Agregar evidencia de que el JOB se ejecuto en el cluster

¿Qué hay disponible al momento en mi cluster?

```
Last login: Fri Sep 22 04:30:34 2023 from 35.235.244.32
sergio ibarra1795@cluster-sir-dcd05-m:~$ ls -la
total 142408
drwxr-xr-x 3 sergio ibarra1795 sergio ibarra1795
                                                     4096 Sep 9 19:46
drwxr-xr-x 4 root
                                                     4096 Sep 9 17:45 ...
-rw----- 1 sergio ibarra1795 sergio ibarra1795
                                                     1147 Sep 22 02:17 .bash history
-rw-r--r-- 1 sergio ibarra1795 sergio ibarra1795
                                                      220 Mar 27 2022 .bash logout
-rw-r--r-- 1 sergio ibarra1795 sergio ibarra1795
                                                     3526 Mar 27 2022 .bashrc
-rw-r--r-- 1 sergio ibarra1795 sergio ibarra1795
                                                      807 Mar 27 2022 .profile
       --- 1 sergio ibarra1795 sergio ibarra1795
                                                     1409 Sep 9 19:46 .python history
drwx----- 2 sergio ibarra1795 sergio ibarra1795
                                                     4096 Sep 22 04:32 .ssh
-rw-r--r-- 1 sergio ibarra1795 sergio ibarra1795
                                                  2226045 Jan 17 2021 2000-0.txt
rw-r--r-- 1 sergio ibarra1795 sergio ibarra1795 143562785 Sep 9 18:35 linea-mujeres-cdmx.csv--
sergio ibarra1795@cluster-sir-dcd05-m:~$
```

```
sergio ibarra1795@cluster-sir-dcd05-m:~$ hdfs dfs -ls -R /tmp
           - sergio ibarra1795 hadoop
                                                 0 2023-09-09 19:52 /tmp/dcd
drwxr-xr-x
                                                 0 2023-09-09 19:52 /tmp/dcd/ecobici
drwxr-xr-x
            2 root
                                 hadoop
                                          41926344 2023-09-09 19:52 /tmp/dcd/ecobici/2023-01.csv
            2 root
                                 hadoop
                                          47532884 2023-09-09 19:52 /tmp/dcd/ecobici/2023-02.csv
-rw-r--r--
            2 root
                                          58449187 2023-09-09 19:52 /tmp/dcd/ecobici/2023-03.csv
                                 hadoop
                                          58119473 2023-09-09 19:52 /tmp/dcd/ecobici/2023-04.csv
            2 root
                                 hadoop
-rw-r--r--
            2 root
                                          67532130 2023-09-09 19:52 /tmp/dcd/ecobici/2023-05.csv
                                 hadoop
-rw-r--r--
            2 root
                                 hadoop
                                          72151312 2023-09-09 19:52 /tmp/dcd/ecobici/2023 06.csv
                                          71416339 2023-09-09 19:52 /tmp/dcd/ecobici/2023 07.csv
            2 root
                                 hadoop
            2 root
                                 hadoop
                                          79235355 2023-09-09 19:52 /tmp/dcd/ecobici/2023 08.csv
-rw-r--r--
drwxr-xr-x
            - sergio ibarra1795 hadoop
                                                 0 2023-09-09 18:39 /tmp/dcd/sirilo
            2 sergio ibarra1795 hadoop 143562785 2023-09-09 18:39 /tmp/dcd/sirilo/linea-mujeres-cdmx.csv
-rw-r--r--
            - sergio ibarra1795 hadoop
                                                 0 2023-09-09 19:33 /tmp/dcd/wordcount
drwxr-xr-x
            - sergio ibarra1795 hadoop
                                                 0 2023-09-09 18:03 /tmp/dcd/wordcount/input
drwxr-xr-x
-rw-r--r--
            2 sergio ibarra1795 hadoop
                                           2226045 2023-09-09 18:03 /tmp/dcd/wordcount/input/texto.txt
            - sergio ibarra1795 hadoop
                                                 0 2023-09-09 18:09 /tmp/dcd/wordcount/output
drwxr-xr-x
            2 sergio ibarra1795 hadoop
                                                 0 2023-09-09 18:09 /tmp/dcd/wordcount/output/ SUCCESS
-rw-r--r--
            2 sergio ibarra1795 hadoop
                                            148653 2023-09-09 18:09 /tmp/dcd/wordcount/output/part-r-00000
-rw-r--r--
            2 sergio ibarra1795 hadoop
                                            149555 2023-09-09 18:09 /tmp/dcd/wordcount/output/part-r-00001
-rw-r--r--
            2 sergio ibarra1795 hadoop
                                            148719 2023-09-09 18:09 /tmp/dcd/wordcount/output/part-r-00002
-rw-r--r--
            - sergio ibarra1795 hadoop
                                                 0 2023-09-09 19:33 /tmp/dcd/wordcount/pyspark
drwxr-xr-x
            2 sergio ibarra1795 hadoop
                                                 0 2023-09-09 19:33 /tmp/dcd/wordcount/pyspark/ SUCCESS
            2 sergio ibarra1795 hadoop
                                            324685 2023-09-09 19:33 /tmp/dcd/wordcount/pyspark/part-00000
                                            321210 2023-09-09 19:33 /tmp/dcd/wordcount/pyspark/part-00001
            2 sergio ibarra1795 hadoop
-rw-r--r--
            - hdfs
                                                 0 2023-09-09 16:36 /tmp/hadoop-yarn
drwxrwxrwt
                                 hadoop
drwxrwxrwt.
            - hdfs
                                 hadoop
                                                 0 2023-09-09 18:08 /tmp/hadoop-yarn/staging
            - hdfs
                                                 0 2023-09-09 16:36 /tmp/hadoop-varn/staging/history
drwxrwxrwt
                                 hadoop
drwx----
            - sergio ibarra1795 hadoop
                                                 0 2023-09-09 18:08 /tmp/hadoop-yarn/staging/sergio ibarra1795
drwx----
            - sergio ibarra1795 hadoop
                                                 0 2023-09-09 18:09 /tmp/hadoop-yarn/staging/sergio ibarra1795/
.staging
drwx-wx-wx
            - hive
                                 hadoop
                                                 0 2023-09-09 16:37 /tmp/hive
            - hive
drwx-wx-wx
                                 hadoop
                                                 0 2023-09-22 04:28 /tmp/hive/ resultscache
drwx----- - hive
                                 hadoop
                                                 0 2023-09-22 04:28 /tmp/hive/ resultscache /results-b8f62619-0
043-4a0b-a700-bd67bf9dba42
```

Descargar varios archivos referente a un tema en particular



Cargar los archivos al cluster de HADOOP

```
In []: Se tuvo que renombrar los archivos de csv de British election para lograr un mejor manejo
In [10]: import os
        # Get the current working directory.
        cwd = os.getcwd()
         # Get the path to the downloaded file.
         file path = os.path.join(cwd, "file?filename=BES2017 W13 Panel v1.0-3.csv.1")
         # Rename the file.
         os.rename(file path, "bes2017 part3.csv")
In []: Y se intenta subir de nuevo el archivo a la carpeta british dentro de mi cluster de Hadoop
In [11]: ! hdfs dfs -put bes2017 part3.csv /tmp/dcd/british/
In []: Se verifica que el archivo de nombre bes2017 part3.csv se haya subido correctamente a /tmp/dcd/british/
In [12]: ! hdfs dfs -ls -R /tmp/dcd/british
                                      32598 2023-09-22 07:09 /tmp/dcd/british/bes2017 part3.csv
         -rw-r--r-- 2 root hadoop
```

```
# Get the current working directory.
        cwd = os.getcwd()
        # Get the path to the downloaded file.
        file path = os.path.join(cwd, "british-election-study-part-2-csv-files")
        # Rename the file.
        os.rename(file path, "bes2017 part2.csv")
In []: Y se intenta subir de nuevo el archivo bes2017 part1.csv a la carpeta british dentro de mi cluster de Hadoop
In [19]: ! hdfs dfs -put bes2017 part2.csv /tmp/dcd/british/
In [20]: ! hdfs dfs -ls -R /tmp/dcd/british
         -rw-r--r-- 2 root hadoop
                                       39212 2023-09-22 07:14 /tmp/dcd/british/bes2017 part1.csv
                                       39606 2023-09-22 07:15 /tmp/dcd/british/bes2017 part2.csv
         -rw-r--r-- 2 root hadoop
                                       32598 2023-09-22 07:09 /tmp/dcd/british/bes2017 part3.csv
         -rw-r--r-- 2 root hadoop
         -rw-r--r-- 2 root hadoop
                                       32598 2023-09-22 07:13 /tmp/dcd/british/bes2017 part4.csv
```

Crear un Data Frame en Spark

3. Crear un Data Frame en Spark

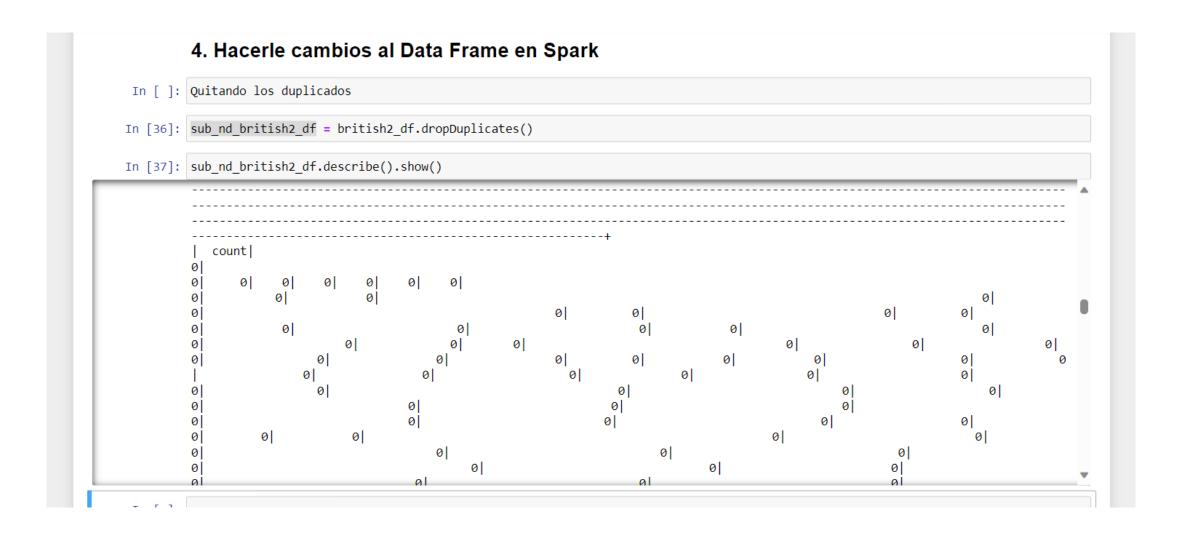
In [32]: british2_df = spark.read.csv('hdfs:///tmp/dcd/british2/', header=True, inferSchema=True)

In [33]: british2 df.show(10)

="viewport" content="width=device-width|initial-scale=1"><meta name="referrer" content="origin-when-cross-origin"><meta name ="og:image" content="https://d2ogkq1rg66kh0.cloudfront.net/site-resources/images/fb-image-share.3a87a6eb.png"><meta name="og: site name" content="data.world"><meta name="twitter:card" content="summary"><meta name="twitter:site" content="@datadotworl d"><meta property="fb:app id" content="776416075825233"><link rel="stylesheet" href="https://fonts.googleapis.com/css2?family =Inconsolata:wght@400;700&family=Lato:ital|wght@0|300;0|400;0|700;1|300;1|400;1|700&display=swap"><link rel="search" href="/o pensearch.xml" type="application/opensearchdescription+xml" title="data.world"> title="apple-touch-icon" sizes="57x57" h ref="https://assets.data.world/icons-d1940ad25da01d05b8f27389101617c1/apple-touch-icon-57x57.png"><link rel="apple-touch-icon-57x57.png"><link rel="apple-touch-icon-57x57.png"><link rel="apple-touch-icon-57x57.png"><link rel="apple-touch-icon-57x57.png"> n" sizes="60x60" href="https://assets.data.world/icons-d1940ad25da01d05b8f27389101617c1/apple-touch-icon-60x60.png"><link rel ="apple-touch-icon" sizes="72x72" href="https://assets.data.world/icons-d1940ad25da01d05b8f27389101617c1/apple-touch-icon-72x 72.png"><link rel="apple-touch-icon" sizes="76x76" href="https://assets.data.world/icons-d1940ad25da01d05b8f27389101617c1/app le-touch-icon-76x76.png"><link rel="apple-touch-icon" sizes="114x114" href="https://assets.data.world/icons-d1940ad25da01d05b 8f27389101617c1/apple-touch-icon-114x114.png"><link rel="apple-touch-icon" sizes="120x120" href="https://assets.data.world/ic ons-d1940ad25da01d05b8f27389101617c1/apple-touch-icon-120x120.png"><link rel="apple-touch-icon" sizes="144x144" href="http s://assets.data.world/icons-d1940ad25da01d05b8f27389101617c1/apple-touch-icon-144x144.png"><link rel="apple-touch-icon" sizes ="152x152" href="https://assets.data.world/icons-d1940ad25da01d05b8f27389101617c1/apple-touch-icon-152x152.png"><link rel="ap ple-touch-icon" sizes="180x180" href="https://assets.data.world/icons-d1940ad25da01d05b8f27389101617c1/apple-touch-icon-180x1 80.png"><meta name="apple-mobile-web-app-capable" content="yes"><meta name="apple-mobile-web-app-status-bar-style" content="b ▼

In [24], buitished of sount()

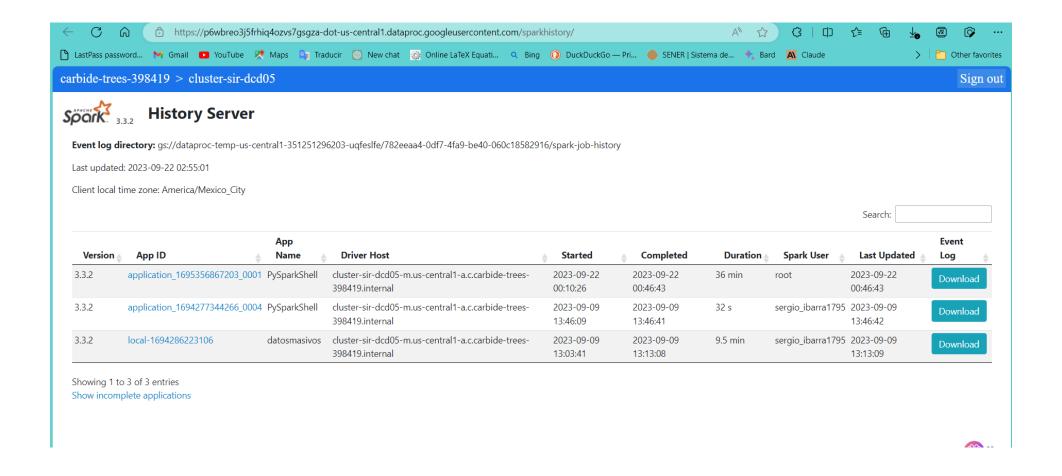
Hacer cambios al data frame (columnas o renglones)



Guarda el nuevo DF en HDFS y en el Bucket

5. Guarda el nuevo DF en HDFS y en el Bucket In [39]: sub_nd_british2_df.write.save("/tmp/dcd/pyspark/british2/", format='csv', header=True) In []: sub_nd_british2_df.write.save("gs://dcd05omg-bucket/dcd/pyspark/british2/", format='csv', header=True) In []:

Agregar evidencia de que el JOB se ejecuto en el cluster



Mod13 Uso Pyspark tarea sesion1

September 22, 2023

0.1 1. Descargar archivo referente a un tema en particular

0.1.1 Intentamos bajar la data de los archivos de British election study

Intentamos bajar la data de los archivos de British election study Part3

```
[1]: | wget https://data.world/wwymak/british-election-study-part-3-csv-files/
workspace/file?filename=BES2017_W13_Panel_v1.0-3.csv
```

```
--2023-09-22 06:47:36-- https://data.world/wwymak/british-election-study-part-3-csv-files/workspace/file?filename=BES2017_W13_Panel_v1.0-3.csv
Resolving data.world (data.world)... 151.101.66.133, 151.101.2.133, 151.101.130.133, ...

Connecting to data.world (data.world)|151.101.66.133|:443... connected.

HTTP request sent, awaiting response... 200 0K

Length: 32598 (32K) [text/html]

Saving to: 'file?filename=BES2017_W13_Panel_v1.0-3.csv.1'

file?filename=BES20 100%[=============]] 31.83K --.-KB/s in 0.003s

2023-09-22 06:47:37 (9.09 MB/s) - 'file?filename=BES2017_W13_Panel_v1.0-3.csv.1' saved [32598/32598]
```

Borramos data que habíamos cargado anteriormente para solo tener archivos de British election study

```
[2]: import os

# Get the path to the CSV file.
csv_file_path = "amba-censo-csv.csv"

# Check if the CSV file exists.
if os.path.exists(csv_file_path):
    # Delete the CSV file.
    os.remove(csv_file_path)
```

Intentamos bajar la data de los archivos de British election study Part4

```
[3]: ! wget https://data.world/wwymak/british-election-study-part-3-csv-files/
workspace/file?filename=BES2017_W13_Panel_v1.0-4.csv
```

```
--2023-09-22 06:47:59-- https://data.world/wwymak/british-election-study-
    part-3-csv-files/workspace/file?filename=BES2017_W13_Panel_v1.0-4.csv
    Resolving data.world (data.world)... 151.101.66.133, 151.101.2.133,
    151.101.130.133, ...
    Connecting to data.world (data.world) | 151.101.66.133 | :443... connected.
    HTTP request sent, awaiting response... 200 OK
    Length: 32598 (32K) [text/html]
    Saving to: 'file?filename=BES2017_W13_Panel_v1.0-4.csv.1'
    file?filename=BES20 100%[===========] 31.83K --.-KB/s
                                                                       in 0.003s
    2023-09-22 06:47:59 (9.38 MB/s) - 'file?filename=BES2017_W13_Panel_v1.0-4.csv.1'
    saved [32598/32598]
    Intentamos bajar la data de los archivos de British election study Part1
[4]: | wget https://data.world/wwymak/british-election-study-csv-files
    --2023-09-22 06:48:07-- https://data.world/wwymak/british-election-study-csv-
    Resolving data.world (data.world)... 151.101.194.133, 151.101.130.133,
    151.101.2.133, ...
    Connecting to data.world (data.world)|151.101.194.133|:443... connected.
    HTTP request sent, awaiting response... 200 OK
    Length: 39212 (38K) [text/html]
    Saving to: 'british-election-study-csv-files.1'
    british-election-st 100%[==========] 38.29K --.-KB/s
                                                                         in 0.004s
    2023-09-22 06:48:08 (8.75 MB/s) - 'british-election-study-csv-files.1' saved
    [39212/39212]
    Intentamos bajar la data de los archivos de British election study Part2
[5]: ! wget https://data.world/wwymak/british-election-study-part-2-csv-files
    --2023-09-22 06:48:11-- https://data.world/wwymak/british-election-study-
    part-2-csv-files
    Resolving data.world (data.world)... 151.101.194.133, 151.101.130.133,
    151.101.2.133, ...
    Connecting to data.world (data.world)|151.101.194.133|:443... connected.
    HTTP request sent, awaiting response... 200 OK
```

in 0.004s

2023-09-22 06:48:11 (8.56 MB/s) - 'british-election-study-part-2-csv-files'

Length: 39606 (39K) [text/html]

Saving to: 'british-election-study-part-2-csv-files'

british-election-st 100%[=========>] 38.68K --.-KB/s

0.2 2. Cargar los archivos al cluster de HADOOP

Creación el directorio en el HDFS donde se almacenarán los archivos de csv de British election

[6]: ! hdfs dfs -mkdir -p /tmp/dcd/british/

! hdfs dfs	-ls -R /tmp/dcd				
drwxr-xr-x	- root	hadoop	0	2023-09-22	06:51
tmp/dcd/br	itish				
drwxr-xr-x	- root	hadoop	0	2023-09-09	19:52
tmp/dcd/ecd/	obici				
-rw-rr	2 root	hadoop	41926344	2023-09-09	19:52
tmp/dcd/ecd/	obici/2023-01.csv				
-rw-rr	2 root	hadoop	47532884	2023-09-09	19:52
tmp/dcd/ecd/	obici/2023-02.csv				
-rw-rr	2 root	hadoop	58449187	2023-09-09	19:52
tmp/dcd/ecd/	obici/2023-03.csv				
-rw-rr	2 root	hadoop	58119473	2023-09-09	19:52
tmp/dcd/ecd/	obici/2023-04.csv				
-rw-rr	2 root	hadoop	67532130	2023-09-09	19:52
tmp/dcd/ecd/	obici/2023-05.csv				
-rw-rr	2 root	hadoop	72151312	2023-09-09	19:52
tmp/dcd/ecd/	obici/2023_06.csv				
-rw-rr	2 root	hadoop	71416339	2023-09-09	19:52
tmp/dcd/ecd/	obici/2023_07.csv				
-rw-rr	2 root	hadoop	79235355	2023-09-09	19:52
tmp/dcd/eco	obici/2023_08.csv				
drwxr-xr-x	- sergio_ibarra1795	hadoop	0	2023-09-09	18:39
tmp/dcd/si	rilo				
-rw-rr	2 sergio_ibarra1795	hadoop	143562785	2023-09-09	18:39
tmp/dcd/si	rilo/linea-mujeres-cd	mx.csv			
drwxr-xr-x	- sergio_ibarra1795	hadoop	0	2023-09-09	19:33
tmp/dcd/wo	rdcount				
drwxr-xr-x	- sergio_ibarra1795	hadoop	0	2023-09-09	18:03
tmp/dcd/wo	rdcount/input				
-rw-rr	2 sergio_ibarra1795	hadoop	2226045	2023-09-09	18:03
tmp/dcd/wo	rdcount/input/texto.t	xt			
drwxr-xr-x	- sergio_ibarra1795	hadoop	0	2023-09-09	18:09
tmp/dcd/wo	rdcount/output				
-rw-rr	2 sergio_ibarra1795	hadoop	0	2023-09-09	18:09
tmp/dcd/wo	rdcount/output/_SUCCE	SS			
-rw-rr	2 sergio_ibarra1795	hadoop	148653	2023-09-09	18:09
tmp/dcd/wo	rdcount/output/part-r	-00000			
-rw-rr	2 sergio_ibarra1795	hadoon	149555	2023-09-09	18:09

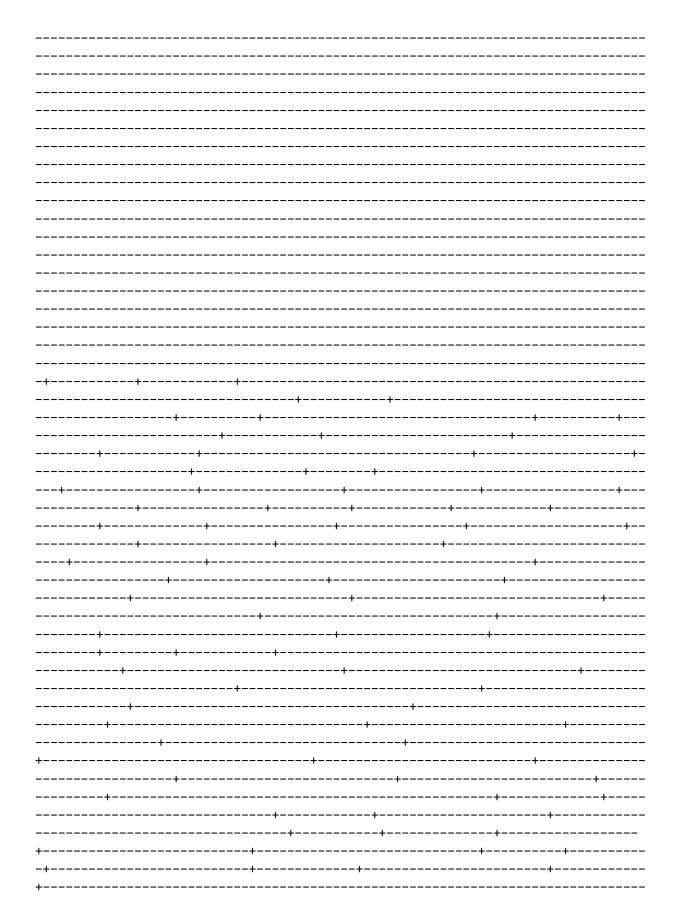
```
/tmp/dcd/wordcount/output/part-r-00001
     -rw-r--r--
                  2 sergio_ibarra1795 hadoop
                                                 148719 2023-09-09 18:09
     /tmp/dcd/wordcount/output/part-r-00002
     drwxr-xr-x
                  - sergio_ibarra1795 hadoop
                                                      0 2023-09-09 19:33
     /tmp/dcd/wordcount/pyspark
     -rw-r--r--
                  2 sergio_ibarra1795 hadoop
                                                      0 2023-09-09 19:33
     /tmp/dcd/wordcount/pyspark/ SUCCESS
                  2 sergio_ibarra1795 hadoop
                                                 324685 2023-09-09 19:33
     /tmp/dcd/wordcount/pyspark/part-00000
     -rw-r--r--
                  2 sergio_ibarra1795 hadoop
                                                 321210 2023-09-09 19:33
     /tmp/dcd/wordcount/pyspark/part-00001
     Se suben todos los archivos de tipo csv que se han descargaod dentro del directorio
     de british
 [7]: ! hdfs dfs -put *.csv /tmp/dcd/british/
     put: `file': No such file or directory
     put: `file': No such file or directory
 [9]: import os
      # Get the current working directory.
      cwd = os.getcwd()
      # Print the current working directory.
      print(cwd)
 []: Se tuvo que renombrar los archivos de csv de British election para lograr un
       →mejor manejo
[10]: import os
      # Get the current working directory.
      cwd = os.getcwd()
      # Get the path to the downloaded file.
      file_path = os.path.join(cwd, "file?filename=BES2017_W13_Panel_v1.0-3.csv.1")
      # Rename the file.
      os.rename(file_path, "bes2017_part3.csv")
 []: Y se intenta subir de nuevo el archivo bes2017_part3.csv a la carpeta british
       ⇔dentro de mi cluster de Hadoop
[11]: ! hdfs dfs -put bes2017_part3.csv /tmp/dcd/british/
```

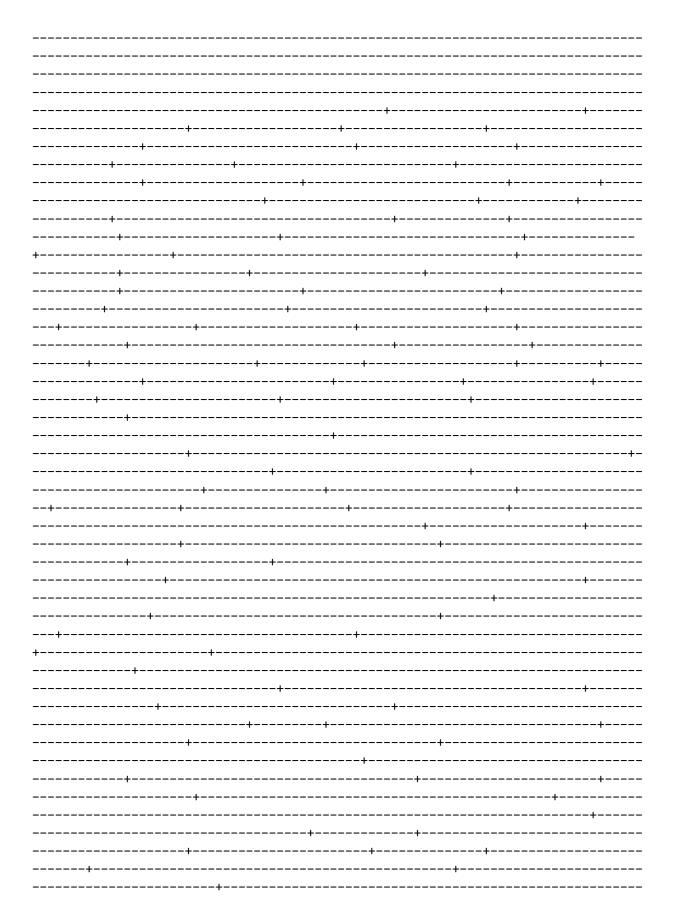
```
[]: Se verifica que el archivo de nombre bes2017_part3.csv se haya subidou

¬correctamente a /tmp/dcd/british/
[12]: ! hdfs dfs -ls -R /tmp/dcd/british
                                     32598 2023-09-22 07:09
     -rw-r--r--
                  2 root hadoop
     /tmp/dcd/british/bes2017_part3.csv
 []: Se repite el proceso de renombrar y subir archivos a la carpeta british
[13]: import os
      # Get the current working directory.
      cwd = os.getcwd()
      # Get the path to the downloaded file.
      file_path = os.path.join(cwd, "file?filename=BES2017_W13 Panel_v1.0-4.csv.1")
      # Rename the file.
      os.rename(file_path, "bes2017_part4.csv")
 []: Y se intenta subir de nuevo el archivo bes2017_part4.csv a la carpeta british
       ⇔dentro de mi cluster de Hadoop
[14]: ! hdfs dfs -put bes2017_part4.csv /tmp/dcd/british/
[16]: import os
      # Get the current working directory.
      cwd = os.getcwd()
      # Get the path to the downloaded file.
      file_path = os.path.join(cwd, "british-election-study-csv-files.1")
      # Rename the file.
      os.rename(file_path, "bes2017_part1.csv")
 []: Y se intenta subir de nuevo el archivo bes2017_part1.csv a la carpeta british
       ⊶dentro de mi cluster de Hadoop
[17]: ! hdfs dfs -put bes2017_part1.csv /tmp/dcd/british/
[18]: import os
      # Get the current working directory.
      cwd = os.getcwd()
      # Get the path to the downloaded file.
```

```
file_path = os.path.join(cwd, "british-election-study-part-2-csv-files")
      # Rename the file.
      os.rename(file_path, "bes2017_part2.csv")
 []: Y se intenta subir de nuevo el archivo bes2017_part1.csv a la carpeta british
       ⊶dentro de mi cluster de Hadoop
[19]: ! hdfs dfs -put bes2017 part2.csv /tmp/dcd/british/
[24]: ! hdfs dfs -ls -R /tmp/dcd/british
     -rw-r--r--
                  2 root hadoop
                                     39212 2023-09-22 07:14
     /tmp/dcd/british/bes2017_part1.csv
     -rw-r--r--
                  2 root hadoop
                                     39606 2023-09-22 07:15
     /tmp/dcd/british/bes2017_part2.csv
                  2 root hadoop
     -rw-r--r--
                                     32598 2023-09-22 07:09
     /tmp/dcd/british/bes2017_part3.csv
     -rw-r--r--
                  2 root hadoop
                                     32598 2023-09-22 07:13
     /tmp/dcd/british/bes2017_part4.csv
[27]: import os
      # Get the path to the file you want to delete.
      file_path3 = "/tmp/dcd/british/bes2017_part3.csv"
      # Delete the file.
      os.remove(file_path3)
      FileNotFoundError
                                                 Traceback (most recent call last)
      /tmp/ipykernel_20152/1778995922.py in <cell line: 7>()
            6 # Delete the file.
      ---> 7 os.remove(file_path3)
      FileNotFoundError: [Errno 2] No such file or directory: '/tmp/dcd/british/
        ⇔bes2017_part3.csv'
 []:
[28]: ! hdfs dfs -mkdir -p /tmp/dcd/british2/
[29]: ! hdfs dfs -put bes2017_part3.csv /tmp/dcd/british2/
[30]: ! hdfs dfs -put bes2017_part4.csv /tmp/dcd/british2/
```

[31] :	! hdfs dfs -ls -R /tmp/dcd/british2
	-rw-rr- 2 root hadoop 32598 2023-09-22 08:39 /tmp/dcd/british2/bes2017_part3.csv
	-rw-rr 2 root hadoop 32598 2023-09-22 08:39 /tmp/dcd/british2/bes2017_part4.csv
[]:	
[]:	
	0.3 3. Crear un Data Frame en Spark
[32] :	<pre>british2_df = spark.read.csv('hdfs:///tmp/dcd/british2/', header=True,</pre>
[33]:	british2_df.show(10)
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organization. Only you and admins will be able to see your changes until they're
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organization's admins can see them until they have been approved. The Overview
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visible to you. It is neither discoverable nor viewable by the data.world
community. To open it up to others to view | publish it to an
organization."|"transferOwnershipMessage":"By publishing this \u003C%=
resourceType %\u003E to an organization| you are transferring ownership to the
organization. Once your draft is published | you will no longer be able to
directly edit this \u003C%= resourceType %\u003E unless you become a content
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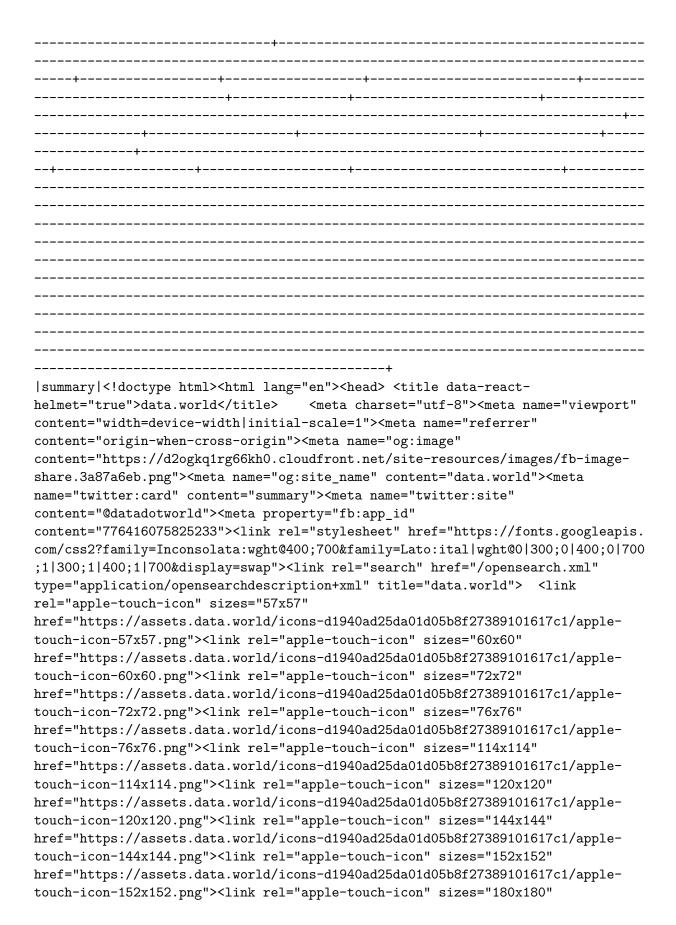
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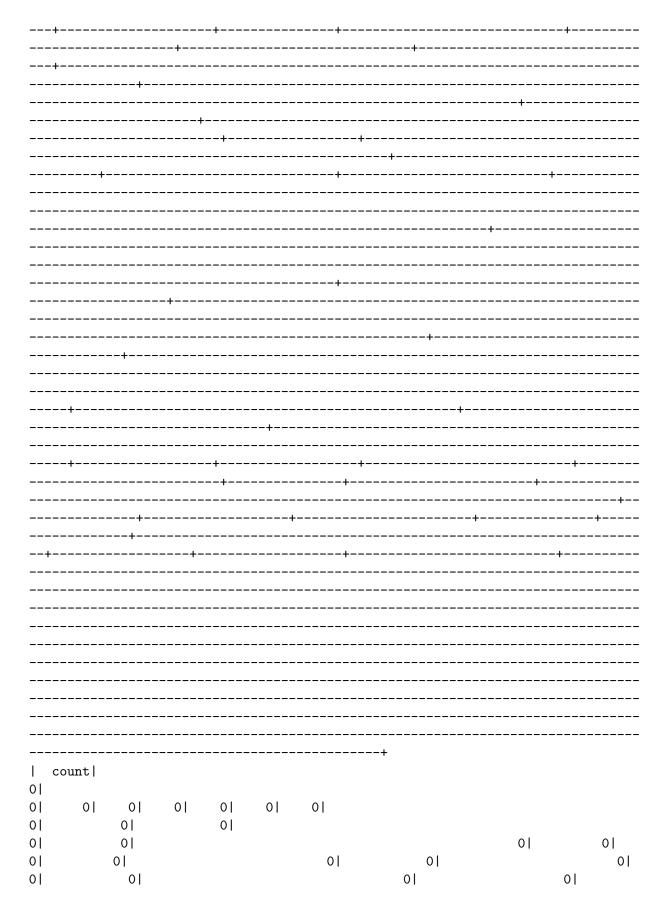
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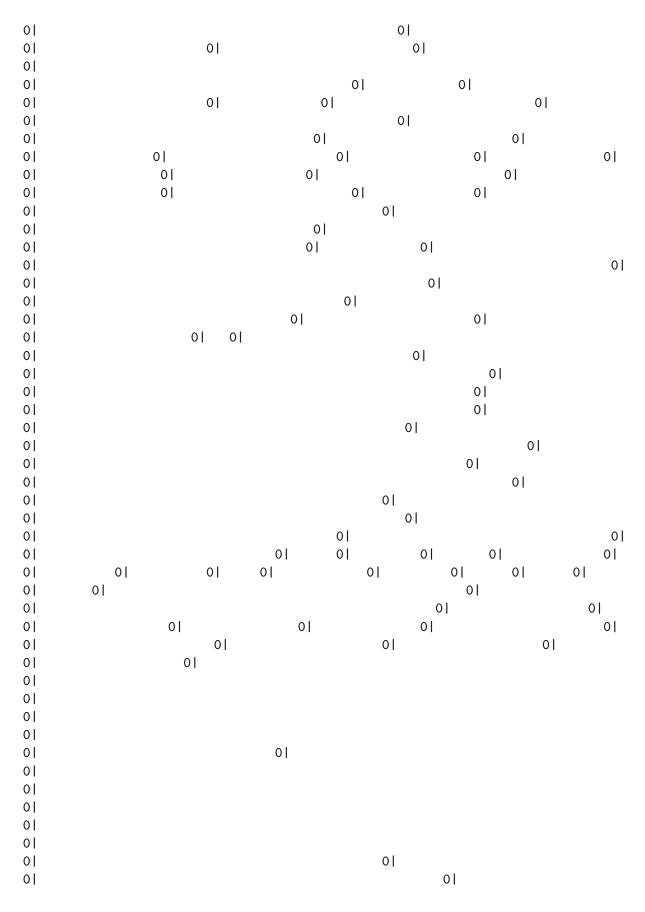
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0.4 4. Hacerle cambios al Data Frame en Spark

[]:	Quitando los duplicados
[36]:	<pre>sub_nd_british2_df = british2_df.dropDuplicates()</pre>
[37]:	<pre>sub_nd_british2_df.describe().show()</pre>
	23/09/22 08:47:33 WARN DAGScheduler: Broadcasting large task binary with size 5.8 MiB
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translucent"><meta name="apple-mobile-web-app-title" content="data.world"><meta
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href="https://assets.data.world/css/app.1915b3c34db820707a63.css"
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CoreLayout_embed__1fxWq"><div class="view-container"><div
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LoadingAnimation__default___KhFF6" data-dw="LoadingAnimation"><div
class="LoadingAnimation_loaderContainer___2arLY"><div class="LoadingAnimation__</pre>
spinner___2qQFp">Loading...</div></div></div></div></div></div></div>
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onversionPages|showSignup|"showSocialLogin"]}|"user":{"hasError":false|"loadedUs
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the general discussion or start your own
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states|\u002Fassociatedpress\u002Fforeign-exchange-
rates | \u002Fassociatedpress \u002Fus-dams-
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purchases \\u002Fassociatedpress \u002Fmarshall-project-covid-cases-in-
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organization's admins can see them until they have been approved. The Overview
tab displays only approved information." | "personalResourceSharedWithText": "This
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visible to you. It is neither discoverable nor viewable by the data.world
community. To open it up to others to view | publish it to an
organization."|"transferOwnershipMessage":"By publishing this \u003C%=
resourceType %\u003E to an organization| you are transferring ownership to the
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organization. Once your draft is published | you will no longer be able to
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that organization."}|"sentry_dsn_client":"https:\u002F\u002Ff763f0cf14f04c75b478
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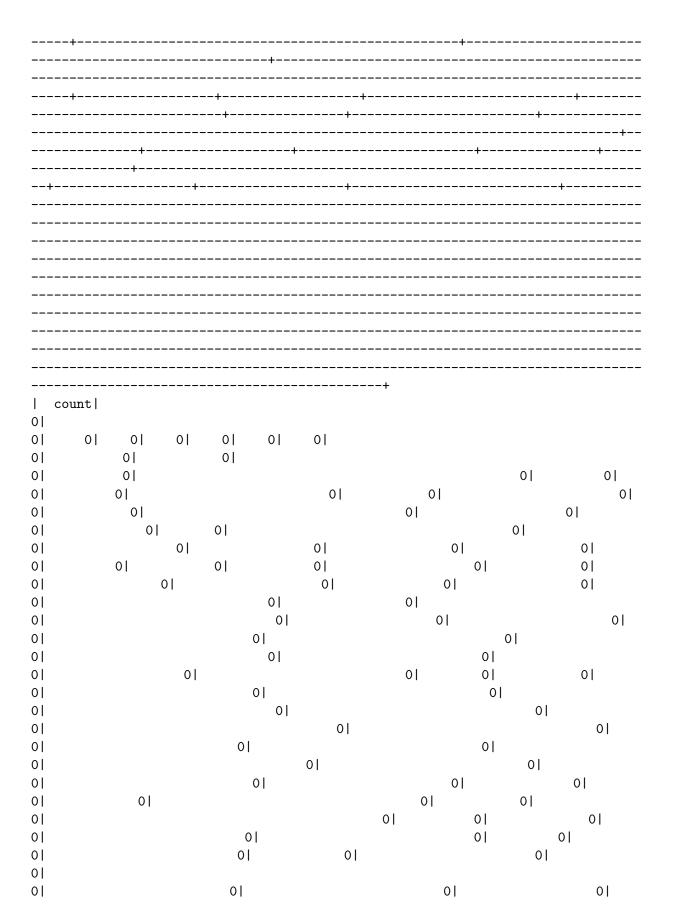
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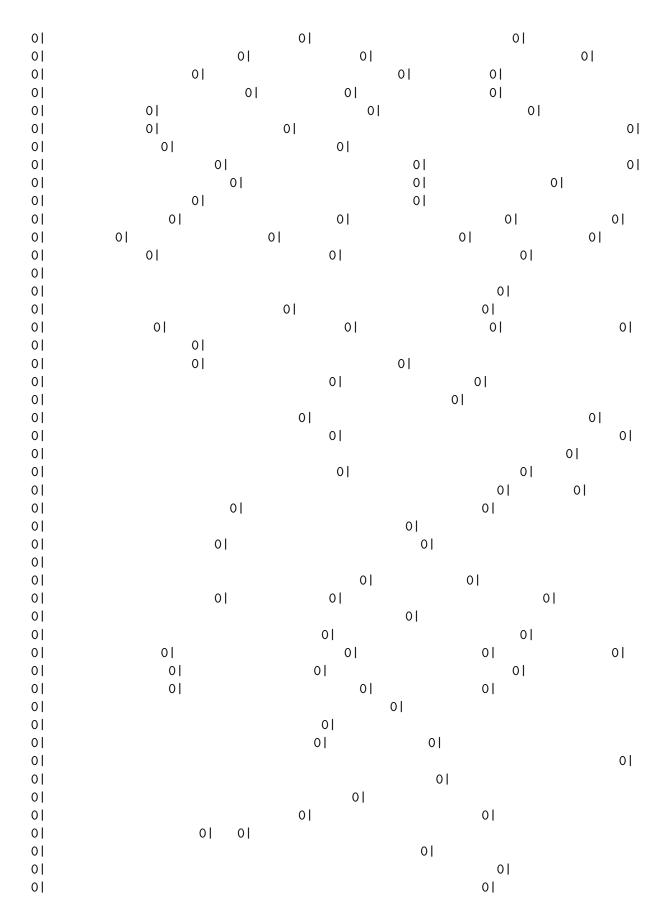
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