## sparksessionpractice

# Numero de muertes a nivel mundial

**FINISHED** 

Took 0 sec. Last updated by anonymous at May 16 2020, 8:49:41 PM.

%pyspark FINISHED

from pyspark.sql import SparkSession

Took 0 sec. Last updated by anonymous at May 16 2020, 8:45:17 PM.

%pyspark
spark = SparkSession.builder.appName('Basics').getOrCreate()

Took 0 sec. Last updated by anonymous at May 16 2020, 8:45:21 PM.

%pyspark FINISHED

SensorDataRDD = sc.textFile('s3://aws-logs-061895363576-us-east-1/mundial/time\_series\_covid19\_deat

SensorDataCount = SensorDataRDD.count()
SensorDataCount

267

Took 7 sec. Last updated by anonymous at May 16 2020, 8:45:51 PM.

%pyspark FINISHED

 $\label{eq:df} \textit{df = spark.read.csv} \\ \textit{(s3://aws-logs-061895363576-us-east-1/mundial/time\_series\_covid19\_deaths\_globallime)} \\ \textit{(same final final$ 

Took 1 sec. Last updated by anonymous at May 16 2020, 8:46:03 PM.

%pyspark FINISHED

df.columns

['Province/State', 'Country/Region', 'Lat', 'Long', '1/22/20', '1/23/20', '1/24/20', '1/25/20', '1/26/20', '1/27/20', '1/28/20', '1/29/20', '1/30/20', '1/31/20', '2/1/20', '2/2/20', '2/3/20', '2/4/20', '2/5/20', '2/6/20', '2/7/20', '2/8/20', '2/9/20', '2/10/20', '2/11/20', '2/12/20', '2/13/20', '2/14/20', '2/15/20', '2/16/20', '2/17/20', '2/18/20', '2/19/20', '2/20/20', '2/21/20', '2/23/20', '2/24/20', '2/25/20', '2/26/20', '2/27/20', '2/28/20', '2/29/20', '3/10/20', '3/12/20', '3/3/20', '3/4/20', '3/5/20', '3/6/20', '3/7/20', '3/8/20', '3/9/20', '3/10/20', '3/11/20', '3/12/20', '3/13/20', '3/14/20', '3/15/20', '3/16/20', '3/17/20', '3/18/20', '3/19/20', '3/20/20', '3/21/20', '3/22/20', '3/23/20', '3/24/20', '3/25/20', '3/26/20', '3/27/20', '3/28/20', '3/29/20', '3/30/20', '3/31/20', '4/10/20', '4/12/20', '4/3/20', '4/4/20', '4/5/20', '4/6/20', '4/7/20', '4/8/20', '4/9/20', '4/10/20', '4/11/20', '4/13/20', '4/14/20', '4/15/20', '4/16/20', '4/17/20', '4/18/20', '4/19/20', '4/20/20', '4/21/20', '4/22/20', '4/23/20', '4/24/20', '4/25/20', '4/26/20', '4/27/20', '4/28/20', '4/29/20', '4/30/20', '5/11/20', '5/3/20', '5/3/20', '5/4/20', '5/5/20', '5/6/20', '5/7/20', '5/8/20', '5/9/20', '5/10/20', '5/11/20', '5/12/20', '5/13/20', '5/14/20', '5/15/20']

Took 0 sec. Last updated by anonymous at May 16 2020, 8:46:07 PM.

%pyspark
df.printSchema()

## **FINISHED**

## sparksessionpractice true)

```
-- Country/Region: string (nullable - true)
|-- Lat: string (nullable = true)
|-- Long: string (nullable = true)
|-- 1/22/20: string (nullable = true)
|-- 1/23/20: string (nullable = true)
|-- 1/24/20: string (nullable = true)
|-- 1/25/20: string (nullable = true)
|-- 1/26/20: string (nullable = true)
|-- 1/27/20: string (nullable = true)
-- 1/28/20: string (nullable = true)
|-- 1/29/20: string (nullable = true)
|-- 1/30/20: string (nullable = true)
|-- 1/31/20: string (nullable = true)
|-- 2/1/20: string (nullable = true)
|-- 2/2/20: string (nullable = true)
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Took 0 sec. Last updated by anonymous at May 16 2020, 8:46:13 PM.

%pyspark FINISHED

df.head(5)

[Row(Province/State=None, Country/Region='Afghanistan', Lat='33.0', Long='65.0', 1/22/20='0', 1/ 23/20='0', 1/24/20='0', 1/25/20='0', 1/26/20='0', 1/27/20='0', 1/28/20='0', 1/29/20='0', 1/30/20 ='0', 1/31/20='0', 2/1/20='0', 2/2/20='0', 2/3/20='0', 2/4/20='0', 2/5/20='0', 2/6/20='0', 2/7/2 0='0', 2/8/20='0', 2/9/20='0', 2/10/20='0', 2/11/20='0', 2/12/20='0', 2/13/20='0', 2/14/20='0', 2/15/20='0', 2/16/20='0', 2/17/20='0', 2/18/20='0', 2/19/20='0', 2/20/20='0', 2/21/20='0', 2/22/ 20='0', 2/23/20='0', 2/24/20='0', 2/25/20='0', 2/26/20='0', 2/27/20='0', 2/28/20='0', 2/29/20 ='0', 3/1/20='0', 3/2/20='0', 3/3/20='0', 3/4/20='0', 3/5/20='0', 3/6/20='0', 3/7/20='0', 3/8/20 ='0', 3/9/20='0', 3/10/20='0', 3/11/20='0', 3/12/20='0', 3/13/20='0', 3/14/20='0', 3/15/20='0', 3/16/20='0', 3/17/20='0', 3/18/20='0', 3/19/20='0', 3/20/20='0', 3/21/20='0', 3/22/20='1', 3/23/ 20='1', 3/24/20='1', 3/25/20='2', 3/26/20='4', 3/27/20='4', 3/28/20='4', 3/29/20='4', 3/30/20 ='4', 3/31/20='4', 4/1/20='4', 4/2/20='6', 4/3/20='6', 4/4/20='7', 4/5/20='7', 4/6/20='11', 4/7/ 20='14', 4/8/20='14', 4/9/20='15', 4/10/20='15', 4/11/20='18', 4/12/20='18', 4/13/20='21', 4/14/ 20='23', 4/15/20='25', 4/16/20='30', 4/17/20='30', 4/18/20='30', 4/19/20='33', 4/20/20='36', 4/2 1/20='36', 4/22/20='40', 4/23/20='42', 4/24/20='43', 4/25/20='47', 4/26/20='50', 4/27/20='57', 4/28/20='58', 4/29/20='60', 4/30/20='64', 5/1/20='68', 5/2/20='72', 5/3/20='85', 5/4/20='90', 5/ 5/20='95', 5/6/20='104', 5/7/20='106', 5/8/20='109', 5/9/20='115', 5/10/20='120', 5/11/20='122', 5/12/20='127', 5/13/20='132', 5/14/20='136', 5/15/20='153'), Row(Province/State=None, Country/Re 

Took 1 sec. Last updated by anonymous at May 16 2020, 8:46:18 PM.

%pyspark	FINISHED
df.describe().show()	
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df.orderBy(df['5/15/	/20'].desc()).sho	ow()						
4/20 3/5/20 3/6/20 3/ 3/17/20 3/18/20 3/19/ 3/29/20 3/30/20 3/31/ 4/11/20 4/12/20 4/13/ 4/23/20 4/24/20 4/25/ 20 5/6/20 5/7/20 5/8/	/20 3/20/20 3/21/ /20 4/1/20 4/2/20 /20 4/14/20 4/15/ /20 4/26/20 4/27/	20 3/22/20 3/  4/3/20 4/4/2 20 4/16/20 4/ 20 4/28/20 4/	23/20 3/2 0 4/5/20  17/20 4/1 29/20 4/3	24/20 3/2 4/6/20 4 28/20 4/2 30/20 5/2	25/20 3/ 1/7/20 4 19/20 4/ 1/20 5/2	26/20 3/27/ /8/20 4/9/2 20/20 4/21/ /20 5/3/20	20 3/28/ 0 4/10/2 20 4/22/	20   0   20
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%pyspark								
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from pyspark.sql.fur	nonymous at May 16 202 5/20")).show()							NISHED
from pyspark.sql.fur  Took 0 sec. Last updated by an  %pyspark df.select(mean("5/15 # Promedio de muerte  avg(5/15/20)	nonymous at May 16 202 5/20")).show()							
from pyspark.sql.fur  Took 0 sec. Last updated by an  %pyspark df.select(mean("5/15 # Promedio de muerte  ++   avg(5/15/20)  ++	nonymous at May 16 202 5/20")).show()							
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