simplilearn

Assignment 02: Create, Filter, and Clean an RDD

The unstructured/semi-structured data can use a platform like Hadoop. You don't need to first parse it and then load it into a database. Hadoop is a platform that can parse and load the data into a cluster.

If you want to know why we are using the sequence, one can also refer to a statement on the official copy of the code

Happy coding!

Display all the airports based in New York using PySpark

Instructions

Problem

Use the given dataset to count and display all the airports based in New York using PySpark. Perform the following tasks:

- Load the airports dataset in the dataset
- Take only the first 10 records
- Filter the data for all airports located in New York
- Count all the airports in New York

Hints:

You can download the additional resources from the link below:

https://www.dropbox.com/s/ldqqzqzqzqzqzqz/airlines.dat?dl=0

1. Perform the preparatory activities

```
Welcome to
      ____              __
     / __/__  ___ _____/ /__
    _\ \/ _ \/ _ `/ __/  '_/
   /__ / .__/\_,_/_/ /_/\_\   version 2.4.5
      /_/

Using Scala version 2.11.12, Java 1.8.0_232, Hotspot Client VM, Java Home: /usr/lib/jvm/java-8-openjdk-amd64/jre
```

2. Clone all the airports based in New York

```
airports_rdd_clone_1 = airports_rdd.map(lambda x: x)
airports_rdd_clone_1.collect()
```

```
[u'1,"Goroka","Goroka","Papua New Guinea","GKA","AYGA",-6.081689,145.391881,5282,10,"U","Pacific/Port_Moresby"',
u'2,"Madang","Madang","Papua New Guinea","MAG","AYMD",-5.207188,145.788700,20,10,"U","Pacific/Port_Moresby"',
u'3,"Mount Hagen","Mount Hagen","Papua New Guinea","HGU","AYMH",-5.826789,144.296051,5388,10,"U","Pacific/Port_Moresby"',
u'4,"Nadzab","Nadzab","Papua New Guinea","KPM","AYNZ",-6.569803,146.726242,239,10,"U","Pacific/Port_Moresby"',
u'5,"Port Moresby Jacksons Intl","Port Moresby","Papua New Guinea","POM","AYPM",-9.443383,147.220050,146,10,"U","Pacific/Port_Moresby"',
u'6,"Wewak Intl","Wewak","Papua New Guinea","WWK","AYWK",-3.583828,143.669186,19,10,"U","Pacific/Port_Moresby"',
u'7,"Hoskins","Hoskins","Papua New Guinea","HOS","AYHS",-5.456944,150.405556,30,10,"U","Pacific/Port_Moresby"',
u'8,"Boram","Boram","Papua New Guinea","BAM","AYBM",-3.714722,152.436667,10,10,"U","Pacific/Port_Moresby"',
u'9,"Madang Airstrip","Madang","Papua New Guinea","","AYMA",-5.223333,145.800000,1,10,"U","Pacific/Port_Moresby"',
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u'12,"Chimbu","Chimbu","Papua New Guinea","CMU","AYCH",-6.000000,145.000000,5500,10,"U","Pacific/Port_Moresby"',
u'13,"Simbai","Simbai","Papua New Guinea","","AYSM",-4.500000,144.833333,5000,10,"U","Pacific/Port_Moresby"',
u'14,"Kerema","Kerema","Papua New Guinea","KMA","AYKM",-7.046667,145.783333,10,10,"U","Pacific/Port_Moresby"',
u'15,"Buka","Buka","Papua New Guinea","BUKA","AYBK",-4.824000,155.195000,9,10,"U","Pacific/Port_Moresby"',
u'16,"Manus","Manus","Papua New Guinea","MNB","AYMN",-2.057500,147.425000,21,10,"U","Pacific/Port_Moresby"',
u'17,"Kavieng","Kavieng","Papua New Guinea","KVG","AYKA",-2.579722,150.807500,29,10,"U","Pacific/Port_Moresby"',
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u'142,"Wau Heliport Heliport Heliport","Wau","Papua New Guinea","","AYLW",-6.333333,146.333333,1,10,"U","Pacific/Port_Moresby"',
u'143,"Bulolo Helipad Heliport Heliport Heliport","Bulolo","Papua New Guinea","","AYLH",-6.333333,146.333333,1,10,"U","Pacific/Port_Moresby"',
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u'145,"Lae Nadzab Heliport Heliport Heliport Heliport","Lae","Papua New Guinea","","AYLN",-6.722500,146.916667,1,10,"U","Pacific/Port_Moresby"',
u'146,"Lae Port Moresby Heliport Heliport Heliport Heliport","Lae","Papua New Guinea","","AYLP",-6.722500,146.916667,1,10,"U","Pacific/Port_Moresby"',
u'147,"Lae Wampit Heliport Heliport Heliport Heliport","Lae","Papua New Guinea","","AYLW",-6.722500,146.916667,1,10,"U","Pacific/Port_Moresby"',
u'148,"Lae Wau Heliport Heliport Heliport Heliport","Lae","Papua New Guinea","","AYLU",-6.722500,146.916667,1,10,"U","Pacific/Port_Moresby"',
u'149,"Lae Malalaua Heliport Heliport Heliport Heliport","Lae","Papua New Guinea","","AYLM",-6.722500,146.916667,1,10,"U","Pacific/Port_Moresby"',
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u'152,"Lae Nonga Heliport Heliport Heliport Heliport","Lae","Papua New Guinea","","AYLN",-6.722500,146.916667,1,10,"U","Pacific/Port_Moresby"',
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u'155,"Lae Papua Heliport Heliport Heliport Heliport","Lae","Papua New Guinea","","AYLP",-6.722500,146.916667,1,10,"U","Pacific/Port_Moresby"',
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u'208,"Lae Nonga Heliport Heliport Heliport Heliport Heliport Heliport","Lae","Papua New Guin
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('Mark Twain Spirit Of St Louis Airport',)
('Martin State Airport',)
('Marion Municipal Airport',)
('Marion Municipal Airport',)
('Marion Municipal
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