from pyspark import SparkConf

from pyspark.sql import SparkSession

from pyspark.sql.functions import \*

from pyspark.sql.types import \*

if \_\_name\_\_=='\_\_main\_\_':

    my\_spark = SparkSession.builder.appName("pymongo").config("spark.executor.memory","1g").config("spark.mongodb.read.connection.uri","mongodb+srv://sapralakshya:Bhavini\*1@cluster0exit.punurmm.mongodb.net/?retryWrites=true&w=majority").\

    config("spark.mongodb.write.connection.uri","mongodb+srv://sapralakshya:Bhavini\*1@cluster0.punurmm.mongodb.net/?retryWrites=true&w=majority").config("spark.jars.packages","org.mongodb.spark:mongo-spark-connector:10.0.3").getOrCreate()

    Regiondf=my\_spark.read.format("mongodb").option('database','Spark').option('collection','Region').load()

    casedf=my\_spark.read.format("mongodb").option('database','Spark').option('collection','Case').load()

    """Regiondf.printSchema()"""

    Regiondf.groupBy("province","city").agg(sum("nursing\_home\_count").alias("total")).select("province","city","total").show()

    casedf.join(Regiondf,casedf.province==Regiondf.province,"inner").show()

abc@d641a10f99fc:~/workspace$ python3 solution1.py

:: loading settings :: url = jar:file:/usr/local/spark-3.2.1-bin-hadoop3.2/jars/ivy-2.5.0.jar!/org/apache/ivy/core/settings/ivysettings.xml

Ivy Default Cache set to: /config/.ivy2/cache

The jars for the packages stored in: /config/.ivy2/jars

org.mongodb.spark#mongo-spark-connector added as a dependency

:: resolving dependencies :: org.apache.spark#spark-submit-parent-8e28bf57-4172-4b64-b142-97b347adbfd7;1.0

confs: [default]

found org.mongodb.spark#mongo-spark-connector;10.0.3 in central

found org.mongodb#mongodb-driver-sync;4.5.1 in central

[4.5.1] org.mongodb#mongodb-driver-sync;[4.5.0,4.5.99)

found org.mongodb#bson;4.5.1 in central

found org.mongodb#mongodb-driver-core;4.5.1 in central

:: resolution report :: resolve 3514ms :: artifacts dl 7ms

:: modules in use:

org.mongodb#bson;4.5.1 from central in [default]

org.mongodb#mongodb-driver-core;4.5.1 from central in [default]

org.mongodb#mongodb-driver-sync;4.5.1 from central in [default]

org.mongodb.spark#mongo-spark-connector;10.0.3 from central in [default]

---------------------------------------------------------------------

| | modules || artifacts |

| conf | number| search|dwnlded|evicted|| number|dwnlded|

---------------------------------------------------------------------

| default | 4 | 1 | 0 | 0 || 4 | 0 |

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:: retrieving :: org.apache.spark#spark-submit-parent-8e28bf57-4172-4b64-b142-97b347adbfd7

confs: [default]

0 artifacts copied, 4 already retrieved (0kB/8ms)

23/01/31 10:53:12 WARN NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

Setting default log level to "WARN".

To adjust logging level use sc.setLogLevel(newLevel). For SparkR, use setLogLevel(newLevel).

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| province| city| total|

+-----------+--------------+------+

| Seoul| Gangbuk-gu| 628.0|

| Seoul| Dobong-gu| 485.0|

| Seoul| Dongdaemun-gu| 832.0|

| Seoul| Mapo-gu| 929.0|

| Seoul| Seodaemun-gu| 587.0|

| Busan| Sasang-gu| 317.0|

| Daegu| Dalseong-gun| 361.0|

| Incheon| Gyeyang-gu| 477.0|

| Incheon| Michuhol-gu| 643.0|

| Daejeon| Yuseong-gu| 586.0|

| Daejeon| Jung-gu| 518.0|

| Ulsan| Ulju-gun| 260.0|

|Gyeonggi-do| Goyang-si|1608.0|

|Gyeonggi-do|Gwangmyeong-si| 530.0|

|Gyeonggi-do|Dongducheon-si| 140.0|

|Gyeonggi-do| Suwon-si|2082.0|

|Gyeonggi-do| Pyeongtaek-si| 765.0|

| Gangwon-do| Goseong-gun| 41.0|

| Gangwon-do| Samcheok-si| 94.0|

| Gangwon-do| Yeongwol-gun| 56.0|

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only showing top 20 rows

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| \_id| case\_id| city|confirmed|group| infection\_case|latitude|longitude|province| \_id|academy\_ratio| city| code|elderly\_alone\_ratio|elderly\_population\_ratio|elementry\_school\_count|kindergarden\_count| latitude| longitude|nursing\_home\_count|province|university\_count|

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|63cf8f8e53ee75182...|1100002.0|from other city| 12.0| true|Shincheonji Church| -| -| Busan|63d0122b34a17f148...| 0.78| Sasang-gu|11090.0| 8.1| 17.0| 21.0| 31.0|35.152777|128.991142| 317.0| Busan| 3.0|

|63cf8f8e53ee75182...|1100002.0|from other city| 12.0| true|Shincheonji Church| -| -| Busan|63d0122b34a17f148...| 1.62| Busanjin-gu|11070.0| 8.7| 19.01| 32.0| 43.0|35.163332|129.053058| 986.0| Busan| 3.0|

|63cf8f8e53ee75182...|1100002.0|from other city| 12.0| true|Shincheonji Church| -| -| Busan|63d0122b34a17f148...| 1.63| Haeundae-gu|11160.0| 7.9| 16.53| 33.0| 39.0| 35.16336|129.163594| 814.0| Busan| 1.0|

|63cf8f8e53ee75182...|1100002.0|from other city| 12.0| true|Shincheonji Church| -| -| Busan|63d0122b34a17f148...| 1.43| Gangseo-gu|11010.0| 5.0| 11.84| 17.0| 21.0|35.212424| 128.98068| 147.0| Busan| 0.0|

|63cf8f8e53ee75182...|1100002.0|from other city| 12.0| true|Shincheonji Church| -| -| Busan|63d0122b34a17f148...| 1.34| Saha-gu|11100.0| 8.1| 17.76| 26.0| 42.0|35.104642|128.974792| 541.0| Busan| 2.0|

|63cf8f8e53ee75182...|1100002.0|from other city| 12.0| true|Shincheonji Church| -| -| Busan|63d0122b34a17f148...| 1.56| Suyeong-gu|11120.0| 8.2| 20.4| 10.0| 22.0|35.145805|129.113194| 395.0| Busan| 0.0|

|63cf8f8e53ee75182...|1100002.0|from other city| 12.0| true|Shincheonji Church| -| -| Busan|63d0122b34a17f148...| 1.64|Geumjeong-gu|11020.0| 8.4| 19.8| 22.0| 28.0|35.243053|129.092163| 466.0| Busan| 4.0|

|63cf8f8e53ee75182...|1100002.0|from other city| 12.0| true|Shincheonji Church| -| -| Busan|63d0122b34a17f148...| 0.83| Dong-gu|11050.0| 13.8| 25.42| 7.0| 9.0|35.129432| 129.04554| 239.0| Busan| 0.0|

|63cf8f8e53ee75182...|1100002.0|from other city| 12.0| true|Shincheonji Church| -| -| Busan|63d0122b34a17f148...| 1.39| Yeonje-gu|11130.0| 7.8| 18.27| 16.0| 18.0|35.176406|129.079566| 450.0| Busan| 2.0|

|63cf8f8e53ee75182...|1100002.0|from other city| 12.0| true|Shincheonji Church| -| -| Busan|63d0122b34a17f148...| 0.69| Yeongdo-gu|11140.0| 13.3| 26.13| 14.0| 12.0|35.091362|129.067884| 203.0| Busan| 2.0|

|63cf8f8e53ee75182...|1100002.0|from other city| 12.0| true|Shincheonji Church| -| -| Busan|63d0122c34a17f148...| 1.4| Busan|11000.0| 8.6| 18.41| 304.0| 408.0|35.179884|129.074796| 6752.0| Busan| 22.0|

|63cf8f8e53ee75182...|1100002.0|from other city| 12.0| true|Shincheonji Church| -| -| Busan|63d0122c34a17f148...| 1.35| Buk-gu|11080.0| 8.4| 16.04| 27.0| 37.0|35.197483|128.990224| 465.0| Busan| 1.0|

|63cf8f8e53ee75182...|1100002.0|from other city| 12.0| true|Shincheonji Church| -| -| Busan|63d0122c34a17f148...| 1.02| Seo-gu|11110.0| 12.3| 24.36| 11.0| 9.0|35.098135|129.024193| 235.0| Busan| 0.0|

|63cf8f8e53ee75182...|1100002.0|from other city| 12.0| true|Shincheonji Church| -| -| Busan|63d0122c34a17f148...| 1.31| Gijang-gun|11030.0| 7.4| 15.45| 21.0| 35.0|35.244881|129.222253| 229.0| Busan| 0.0|

|63cf8f8e53ee75182...|1100002.0|from other city| 12.0| true|Shincheonji Church| -| -| Busan|63d0122c34a17f148...| 1.24| Nam-gu|11040.0| 7.9| 19.13| 21.0| 27.0|35.136789| 129.08414| 475.0| Busan| 4.0|

|63cf8f8e53ee75182...|1100002.0|from other city| 12.0| true|Shincheonji Church| -| -| Busan|63d0122c34a17f148...| 1.98| Dongnae-gu|11060.0| 7.7| 17.53| 22.0| 31.0| 35.20506|129.083673| 608.0| Busan| 0.0|

|63cf8f8e53ee75182...|1100002.0|from other city| 12.0| true|Shincheonji Church| -| -| Busan|63d0122c34a17f148...| 1.36| Jung-gu|11150.0| 13.0| 26.0| 4.0| 4.0|35.106321|129.032256| 182.0| Busan| 0.0|

|63cf8f8e53ee75182...|1100006.0|from other city| 4.0| true| Itaewon Clubs| -| -| Busan|63d0122b34a17f148...| 0.78| Sasang-gu|11090.0| 8.1| 17.0| 21.0| 31.0|35.152777|128.991142| 317.0| Busan| 3.0|

|63cf8f8e53ee75182...|1100006.0|from other city| 4.0| true| Itaewon Clubs| -| -| Busan|63d0122b34a17f148...| 1.62| Busanjin-gu|11070.0| 8.7| 19.01| 32.0| 43.0|35.163332|129.053058| 986.0| Busan| 3.0|

|63cf8f8e53ee75182...|1100006.0|from other city| 4.0| true| Itaewon Clubs| -| -| Busan|63d0122b34a17f148...| 1.63| Haeundae-gu|11160.0| 7.9| 16.53| 33.0| 39.0| 35.16336|129.163594| 814.0| Busan| 1.0|

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