**Assignment 1**

**Assignment Submission Date:** AUG 28th 2021

**Title**: Using Hadoop for historical sales data analysis

**Business context:**

A large multi-national retail chain has sales orders data across regions and different sales channels for a large variety of item types. The business team wants to use this data to analyze various aspects of sales - e.g. top selling items in a region, regions with maximum profit in a certain item type, if there is a significant difference in revenue in two item types across regions etc.

**Problem statement:**

As the data analytics team, use the sales transaction data set with about 100K records to answer these questions below —

1. Average unit\_price by country for a given item type in a certain year
2. Total units\_sold by year for a given country and a given item type
3. Find the max and min units\_sold in any order for each year by country for a given item type. Use a custom partitioner class instead of default hash based.
4. What are the top 10 order id for a given year by the total\_profit

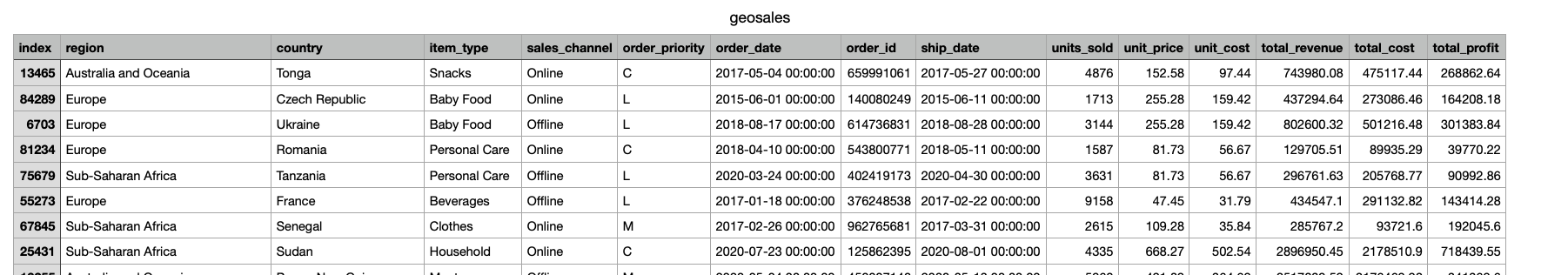
You have to show the above analysis working on a Hadoop system using map reduce code, preferably in Java or Python. You can do data preparation steps as required before running a MapReduce job to answer these questions above.

**Submission materials:**

* Working documented code

Data set:

[https://drive.google.com/drive/folders/1fJyk6GE13xw0P-OKWwW8fxa-ny1G0TPp?usp=sharing](https://drive.google.com/drive/folders/1fjyk6ge13xw0p-okwww8fxa-ny1g0tpp?usp=sharing)



Procedure:

* 1. Do the preprocessing using Assignment.ipynb
  2. It will create new dataset after preprocessing

Graphical user interface, application

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

* 1. Start the dfs and yarn

Graphical user interface, text

Description automatically generated

* 1. Load the dataset into Hadoop cluster

* 1. Run the topOrders.jar to find the top 10 orders list

1. **Question 1: What are the top 10 order id for a given year by the total\_profit**

hadoop jar .\topOrders.jar /IncludeMap/geosales\_modified.csv /MR\_topOrders 2017 default

Text

Description automatically generated with medium confidence

2021-08-28 21:48:41,335 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032

2021-08-28 21:48:42,175 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this.

2021-08-28 21:48:42,336 INFO mapreduce.JobResourceUploader: Disabling Erasure Coding for path: /tmp/hadoop-yarn/staging/jayad/.staging/job\_1630167352162\_0001

2021-08-28 21:48:42,514 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

2021-08-28 21:48:43,171 INFO input.FileInputFormat: Total input files to process : 1

2021-08-28 21:48:43,329 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

2021-08-28 21:48:43,539 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

2021-08-28 21:48:43,656 INFO mapreduce.JobSubmitter: number of splits:1

2021-08-28 21:48:43,906 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

2021-08-28 21:48:43,950 INFO mapreduce.JobSubmitter: Submitting tokens for job: job\_1630167352162\_0001

2021-08-28 21:48:43,950 INFO mapreduce.JobSubmitter: Executing with tokens: []

2021-08-28 21:48:44,087 INFO conf.Configuration: resource-types.xml not found

2021-08-28 21:48:44,088 INFO resource.ResourceUtils: Unable to find 'resource-types.xml'.

2021-08-28 21:48:44,451 INFO impl.YarnClientImpl: Submitted application application\_1630167352162\_0001

2021-08-28 21:48:44,480 INFO mapreduce.Job: The url to track the job: http://LAPTOP-S2Q7B1BU:8088/proxy/application\_1630167352162\_0001/

2021-08-28 21:48:44,481 INFO mapreduce.Job: Running job: job\_1630167352162\_0001

2021-08-28 21:48:53,634 INFO mapreduce.Job: Job job\_1630167352162\_0001 running in uber mode : false

2021-08-28 21:48:53,635 INFO mapreduce.Job: map 0% reduce 0%

2021-08-28 21:49:00,705 INFO mapreduce.Job: map 100% reduce 0%

2021-08-28 21:49:07,746 INFO mapreduce.Job: map 100% reduce 100%

2021-08-28 21:49:08,759 INFO mapreduce.Job: Job job\_1630167352162\_0001 completed successfully

2021-08-28 21:49:08,831 INFO mapreduce.Job: Counters: 54

File System Counters

FILE: Number of bytes read=345676

FILE: Number of bytes written=1145533

FILE: Number of read operations=0

FILE: Number of large read operations=0

FILE: Number of write operations=0

HDFS: Number of bytes read=15496962

HDFS: Number of bytes written=268

HDFS: Number of read operations=8

HDFS: Number of large read operations=0

HDFS: Number of write operations=2

HDFS: Number of bytes read erasure-coded=0

Job Counters

Launched map tasks=1

Launched reduce tasks=1

Rack-local map tasks=1

Total time spent by all maps in occupied slots (ms)=3817

Total time spent by all reduces in occupied slots (ms)=5327

Total time spent by all map tasks (ms)=3817

Total time spent by all reduce tasks (ms)=5327

Total vcore-milliseconds taken by all map tasks=3817

Total vcore-milliseconds taken by all reduce tasks=5327

Total megabyte-milliseconds taken by all map tasks=3908608

Total megabyte-milliseconds taken by all reduce tasks=5454848

Map-Reduce Framework

Map input records=100000

Map output records=13295

Map output bytes=319080

Map output materialized bytes=345676

Input split bytes=119

Combine input records=0

Combine output records=0

Reduce input groups=9727

Reduce shuffle bytes=345676

Reduce input records=13295

Reduce output records=10

Spilled Records=26590

Shuffled Maps =1

Failed Shuffles=0

Merged Map outputs=1

GC time elapsed (ms)=97

CPU time spent (ms)=3216

Physical memory (bytes) snapshot=625745920

Virtual memory (bytes) snapshot=1005789184

Total committed heap usage (bytes)=589299712

Peak Map Physical memory (bytes)=381022208

Peak Map Virtual memory (bytes)=517255168

Peak Reduce Physical memory (bytes)=244723712

Peak Reduce Virtual memory (bytes)=488574976

Shuffle Errors

BAD\_ID=0

CONNECTION=0

IO\_ERROR=0

WRONG\_LENGTH=0

WRONG\_MAP=0

WRONG\_REDUCE=0

File Input Format Counters

Bytes Read=15496843

File Output Format Counters

Bytes Written=268

**Output:**

A picture containing text

Description automatically generated

**Question 2: Total units\_sold by year for a given country and a given item type**

hadoop jar .\totalUnitSold.jar /IncludeMap/geosales\_modified.csv /MR\_totalUnitSold Snacks Ukraine default

Text

Description automatically generated

2021-08-28 21:59:54,520 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032

2021-08-28 21:59:55,215 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this.

2021-08-28 21:59:55,309 INFO mapreduce.JobResourceUploader: Disabling Erasure Coding for path: /tmp/hadoop-yarn/staging/jayad/.staging/job\_1630167352162\_0002

2021-08-28 21:59:55,481 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

2021-08-28 21:59:55,672 INFO input.FileInputFormat: Total input files to process : 1

2021-08-28 21:59:55,830 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

2021-08-28 21:59:55,974 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

2021-08-28 21:59:56,005 INFO mapreduce.JobSubmitter: number of splits:1

2021-08-28 21:59:56,139 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

2021-08-28 21:59:56,184 INFO mapreduce.JobSubmitter: Submitting tokens for job: job\_1630167352162\_0002

2021-08-28 21:59:56,184 INFO mapreduce.JobSubmitter: Executing with tokens: []

2021-08-28 21:59:56,322 INFO conf.Configuration: resource-types.xml not found

2021-08-28 21:59:56,322 INFO resource.ResourceUtils: Unable to find 'resource-types.xml'.

2021-08-28 21:59:56,367 INFO impl.YarnClientImpl: Submitted application application\_1630167352162\_0002

2021-08-28 21:59:56,394 INFO mapreduce.Job: The url to track the job: http://LAPTOP-S2Q7B1BU:8088/proxy/application\_1630167352162\_0002/

2021-08-28 21:59:56,394 INFO mapreduce.Job: Running job: job\_1630167352162\_0002

2021-08-28 22:00:03,471 INFO mapreduce.Job: Job job\_1630167352162\_0002 running in uber mode : false

2021-08-28 22:00:03,472 INFO mapreduce.Job: map 0% reduce 0%

2021-08-28 22:00:09,530 INFO mapreduce.Job: map 100% reduce 0%

2021-08-28 22:00:16,571 INFO mapreduce.Job: map 100% reduce 100%

2021-08-28 22:00:17,596 INFO mapreduce.Job: Job job\_1630167352162\_0002 completed successfully

2021-08-28 22:00:17,677 INFO mapreduce.Job: Counters: 54

File System Counters

FILE: Number of bytes read=1308

FILE: Number of bytes written=456347

FILE: Number of read operations=0

FILE: Number of large read operations=0

FILE: Number of write operations=0

HDFS: Number of bytes read=15496962

HDFS: Number of bytes written=232

HDFS: Number of read operations=8

HDFS: Number of large read operations=0

HDFS: Number of write operations=2

HDFS: Number of bytes read erasure-coded=0

Job Counters

Launched map tasks=1

Launched reduce tasks=1

Rack-local map tasks=1

Total time spent by all maps in occupied slots (ms)=3347

Total time spent by all reduces in occupied slots (ms)=3953

Total time spent by all map tasks (ms)=3347

Total time spent by all reduce tasks (ms)=3953

Total vcore-milliseconds taken by all map tasks=3347

Total vcore-milliseconds taken by all reduce tasks=3953

Total megabyte-milliseconds taken by all map tasks=3427328

Total megabyte-milliseconds taken by all reduce tasks=4047872

Map-Reduce Framework

Map input records=100000

Map output records=42

Map output bytes=1218

Map output materialized bytes=1308

Input split bytes=119

Combine input records=0

Combine output records=0

Reduce input groups=8

Reduce shuffle bytes=1308

Reduce input records=42

Reduce output records=8

Spilled Records=84

Shuffled Maps =1

Failed Shuffles=0

Merged Map outputs=1

GC time elapsed (ms)=90

CPU time spent (ms)=2123

Physical memory (bytes) snapshot=650797056

Virtual memory (bytes) snapshot=1039941632

Total committed heap usage (bytes)=590872576

Peak Map Physical memory (bytes)=380289024

Peak Map Virtual memory (bytes)=524566528

Peak Reduce Physical memory (bytes)=270508032

Peak Reduce Virtual memory (bytes)=515387392

Shuffle Errors

BAD\_ID=0

CONNECTION=0

IO\_ERROR=0

WRONG\_LENGTH=0

WRONG\_MAP=0

WRONG\_REDUCE=0

File Input Format Counters

Bytes Read=15496843

File Output Format Counters

Bytes Written=232

**OUTPUT:**

Text

Description automatically generated

**Question 3:**

**Average unit\_price by country for a given item type in a certain year**

hadoop jar .\Unit\_Price.jar /IncludeMap/geosales\_modified.csv /MR\_Unit\_Price Snacks 2017 default

A picture containing graphical user interface

Description automatically generated

2021-08-28 22:04:26,475 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032

2021-08-28 22:04:27,162 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this.

2021-08-28 22:04:27,249 INFO mapreduce.JobResourceUploader: Disabling Erasure Coding for path: /tmp/hadoop-yarn/staging/jayad/.staging/job\_1630167352162\_0003

2021-08-28 22:04:27,463 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

2021-08-28 22:04:27,646 INFO input.FileInputFormat: Total input files to process : 1

2021-08-28 22:04:27,911 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

2021-08-28 22:04:28,155 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

2021-08-28 22:04:28,198 INFO mapreduce.JobSubmitter: number of splits:1

2021-08-28 22:04:28,365 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

2021-08-28 22:04:28,410 INFO mapreduce.JobSubmitter: Submitting tokens for job: job\_1630167352162\_0003

2021-08-28 22:04:28,410 INFO mapreduce.JobSubmitter: Executing with tokens: []

2021-08-28 22:04:28,535 INFO conf.Configuration: resource-types.xml not found

2021-08-28 22:04:28,536 INFO resource.ResourceUtils: Unable to find 'resource-types.xml'.

2021-08-28 22:04:28,583 INFO impl.YarnClientImpl: Submitted application application\_1630167352162\_0003

2021-08-28 22:04:28,608 INFO mapreduce.Job: The url to track the job: http://LAPTOP-S2Q7B1BU:8088/proxy/application\_1630167352162\_0003/

2021-08-28 22:04:28,609 INFO mapreduce.Job: Running job: job\_1630167352162\_0003

2021-08-28 22:04:36,702 INFO mapreduce.Job: Job job\_1630167352162\_0003 running in uber mode : false

2021-08-28 22:04:36,703 INFO mapreduce.Job: map 0% reduce 0%

2021-08-28 22:04:42,755 INFO mapreduce.Job: map 100% reduce 0%

2021-08-28 22:04:49,790 INFO mapreduce.Job: map 100% reduce 100%

2021-08-28 22:04:50,805 INFO mapreduce.Job: Job job\_1630167352162\_0003 completed successfully

2021-08-28 22:04:50,877 INFO mapreduce.Job: Counters: 54

File System Counters

FILE: Number of bytes read=36304

FILE: Number of bytes written=525989

FILE: Number of read operations=0

FILE: Number of large read operations=0

FILE: Number of write operations=0

HDFS: Number of bytes read=15496962

HDFS: Number of bytes written=5736

HDFS: Number of read operations=8

HDFS: Number of large read operations=0

HDFS: Number of write operations=2

HDFS: Number of bytes read erasure-coded=0

Job Counters

Launched map tasks=1

Launched reduce tasks=1

Rack-local map tasks=1

Total time spent by all maps in occupied slots (ms)=3360

Total time spent by all reduces in occupied slots (ms)=4230

Total time spent by all map tasks (ms)=3360

Total time spent by all reduce tasks (ms)=4230

Total vcore-milliseconds taken by all map tasks=3360

Total vcore-milliseconds taken by all reduce tasks=4230

Total megabyte-milliseconds taken by all map tasks=3440640

Total megabyte-milliseconds taken by all reduce tasks=4331520

Map-Reduce Framework

Map input records=100000

Map output records=1105

Map output bytes=34088

Map output materialized bytes=36304

Input split bytes=119

Combine input records=0

Combine output records=0

Reduce input groups=185

Reduce shuffle bytes=36304

Reduce input records=1105

Reduce output records=185

Spilled Records=2210

Shuffled Maps =1

Failed Shuffles=0

Merged Map outputs=1

GC time elapsed (ms)=98

CPU time spent (ms)=1950

Physical memory (bytes) snapshot=626290688

Virtual memory (bytes) snapshot=1012752384

Total committed heap usage (bytes)=596639744

Peak Map Physical memory (bytes)=382337024

Peak Map Virtual memory (bytes)=524263424

Peak Reduce Physical memory (bytes)=243953664

Peak Reduce Virtual memory (bytes)=488521728

Shuffle Errors

BAD\_ID=0

CONNECTION=0

IO\_ERROR=0

WRONG\_LENGTH=0

WRONG\_MAP=0

WRONG\_REDUCE=0

File Input Format Counters

Bytes Read=15496843

File Output Format Counters

Bytes Written=5736

**OUTPUT:**

Text

Description automatically generated

A picture containing text

Description automatically generated

A picture containing text

Description automatically generated

Text

Description automatically generated

Text

Description automatically generated

**Question 4: Find the max and min units sold in any order for each year by country for a given item type. Use a custom partitioner class instead of default hash based.**

hadoop jar .\unitsSold.jar /IncludeMap/geosales\_modified.csv /MR\_unitsSold Snacks default

Text

Description automatically generated

2021-08-28 22:09:11,751 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032

2021-08-28 22:09:12,455 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this.

2021-08-28 22:09:12,527 INFO mapreduce.JobResourceUploader: Disabling Erasure Coding for path: /tmp/hadoop-yarn/staging/jayad/.staging/job\_1630167352162\_0004

2021-08-28 22:09:12,667 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

2021-08-28 22:09:12,816 INFO input.FileInputFormat: Total input files to process : 1

2021-08-28 22:09:12,949 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

2021-08-28 22:09:13,493 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

2021-08-28 22:09:13,521 INFO mapreduce.JobSubmitter: number of splits:1

2021-08-28 22:09:13,710 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

2021-08-28 22:09:13,747 INFO mapreduce.JobSubmitter: Submitting tokens for job: job\_1630167352162\_0004

2021-08-28 22:09:13,748 INFO mapreduce.JobSubmitter: Executing with tokens: []

2021-08-28 22:09:13,893 INFO conf.Configuration: resource-types.xml not found

2021-08-28 22:09:13,894 INFO resource.ResourceUtils: Unable to find 'resource-types.xml'.

2021-08-28 22:09:13,938 INFO impl.YarnClientImpl: Submitted application application\_1630167352162\_0004

2021-08-28 22:09:13,967 INFO mapreduce.Job: The url to track the job: http://LAPTOP-S2Q7B1BU:8088/proxy/application\_1630167352162\_0004/

2021-08-28 22:09:13,968 INFO mapreduce.Job: Running job: job\_1630167352162\_0004

2021-08-28 22:09:22,065 INFO mapreduce.Job: Job job\_1630167352162\_0004 running in uber mode : false

2021-08-28 22:09:22,067 INFO mapreduce.Job: map 0% reduce 0%

2021-08-28 22:09:28,128 INFO mapreduce.Job: map 100% reduce 0%

2021-08-28 22:09:36,248 INFO mapreduce.Job: map 100% reduce 10%

2021-08-28 22:09:38,308 INFO mapreduce.Job: map 100% reduce 20%

2021-08-28 22:09:41,343 INFO mapreduce.Job: map 100% reduce 30%

2021-08-28 22:09:42,352 INFO mapreduce.Job: map 100% reduce 40%

2021-08-28 22:09:43,361 INFO mapreduce.Job: map 100% reduce 50%

2021-08-28 22:09:44,371 INFO mapreduce.Job: map 100% reduce 60%

2021-08-28 22:09:46,380 INFO mapreduce.Job: map 100% reduce 80%

2021-08-28 22:09:48,387 INFO mapreduce.Job: map 100% reduce 100%

2021-08-28 22:09:49,397 INFO mapreduce.Job: Job job\_1630167352162\_0004 completed successfully

2021-08-28 22:09:49,494 INFO mapreduce.Job: Counters: 55

File System Counters

FILE: Number of bytes read=273398

FILE: Number of bytes written=3042934

FILE: Number of read operations=0

FILE: Number of large read operations=0

FILE: Number of write operations=0

HDFS: Number of bytes read=15496962

HDFS: Number of bytes written=57155

HDFS: Number of read operations=53

HDFS: Number of large read operations=0

HDFS: Number of write operations=20

HDFS: Number of bytes read erasure-coded=0

Job Counters

Killed reduce tasks=1

Launched map tasks=1

Launched reduce tasks=10

Rack-local map tasks=1

Total time spent by all maps in occupied slots (ms)=3065

Total time spent by all reduces in occupied slots (ms)=71186

Total time spent by all map tasks (ms)=3065

Total time spent by all reduce tasks (ms)=71186

Total vcore-milliseconds taken by all map tasks=3065

Total vcore-milliseconds taken by all reduce tasks=71186

Total megabyte-milliseconds taken by all map tasks=3138560

Total megabyte-milliseconds taken by all reduce tasks=72894464

Map-Reduce Framework

Map input records=100000

Map output records=8308

Map output bytes=256722

Map output materialized bytes=273398

Input split bytes=119

Combine input records=0

Combine output records=0

Reduce input groups=1568

Reduce shuffle bytes=273398

Reduce input records=8308

Reduce output records=1568

Spilled Records=16616

Shuffled Maps =10

Failed Shuffles=0

Merged Map outputs=10

GC time elapsed (ms)=760

CPU time spent (ms)=11685

Physical memory (bytes) snapshot=2828906496

Virtual memory (bytes) snapshot=5550870528

Total committed heap usage (bytes)=3132096512

Peak Map Physical memory (bytes)=361017344

Peak Map Virtual memory (bytes)=501719040

Peak Reduce Physical memory (bytes)=272670720

Peak Reduce Virtual memory (bytes)=568791040

Shuffle Errors

BAD\_ID=0

CONNECTION=0

IO\_ERROR=0

WRONG\_LENGTH=0

WRONG\_MAP=0

WRONG\_REDUCE=0

File Input Format Counters

Bytes Read=15496843

File Output Format Counters

Bytes Written=57155

**OUTPUT:**

Text

Description automatically generated with medium confidence

hadoop fs -cat /MapReduce\_unitsSold/part-r-00001

2021-09-05 22:43:45,743 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

2013,Snacks,Afghanistan, 7065.0,7065.0

2013,Snacks,Albania, 4766.0,4766.0

2013,Snacks,Algeria, 3725.0,3725.0

2013,Snacks,Andorra, 7106.0,7106.0

2013,Snacks,Antigua and Barbuda , 3446.0,3446.0

2013,Snacks,Armenia, 2255.0,2255.0

2013,Snacks,Australia, 5269.0,1531.0

2013,Snacks,Austria, 592.0,592.0

2013,Snacks,Azerbaijan, 262.0,262.0

2013,Snacks,Bahrain, 6497.0,6497.0

2013,Snacks,Barbados, 8306.0,1926.0

2013,Snacks,Belarus, 3486.0,2099.0

2013,Snacks,Benin, 4344.0,2402.0

2013,Snacks,Bosnia and Herzegovina, 8082.0,8082.0

2013,Snacks,Botswana, 9616.0,3235.0

2013,Snacks,Brunei, 6602.0,2164.0

2013,Snacks,Bulgaria, 3762.0,3762.0

2013,Snacks,Burkina Faso, 6419.0,592.0

2013,Snacks,Canada, 9997.0,1939.0

2013,Snacks,Central African Republic, 6827.0,6827.0

2013,Snacks,Chad, 3776.0,3776.0

2013,Snacks,China, 3395.0,3395.0

2013,Snacks,Comoros, 6405.0,6405.0

2013,Snacks,Costa Rica, 5653.0,1623.0

2013,Snacks,Croatia, 7779.0,5282.0

2013,Snacks,Cyprus, 7368.0,698.0

2013,Snacks,Czech Republic, 3473.0,3473.0

2013,Snacks,Democratic Republic of the Congo, 8888.0,8334.0

2013,Snacks,Denmark, 5823.0,4160.0

2013,Snacks,Djibouti, 8755.0,8755.0

2013,Snacks,Dominica, 9548.0,3432.0

2013,Snacks,Dominican Republic, 8704.0,646.0

2013,Snacks,East Timor, 8599.0,2507.0

2013,Snacks,Ethiopia, 5956.0,5956.0

2013,Snacks,Fiji, 9575.0,963.0

2013,Snacks,France, 6089.0,5823.0

2013,Snacks,Gabon, 1371.0,817.0

2013,Snacks,Germany, 9840.0,6075.0

2013,Snacks,Ghana, 4568.0,4568.0

2013,Snacks,Greenland, 7211.0,6946.0

2013,Snacks,Guinea, 6908.0,1636.0

2013,Snacks,Guinea-Bissau, 8993.0,2613.0

2013,Snacks,Haiti, 8677.0,8677.0

2013,Snacks,Honduras, 5361.0,5361.0

2013,Snacks,Hungary, 9272.0,3446.0

2013,Snacks,India, 9364.0,9099.0

2013,Snacks,Italy, 9259.0,1201.0

2013,Snacks,Jamaica, 9932.0,487.0

2013,Snacks,Japan, 8942.0,619.0

2013,Snacks,Jordan, 6895.0,1068.0

2013,Snacks,Kenya, 9126.0,8837.0

2013,Snacks,Kyrgyzstan, 2680.0,2680.0

2013,Snacks,Latvia, 6748.0,6748.0

2013,Snacks,Lesotho, 2310.0,368.0

2013,Snacks,Libya, 8004.0,8004.0

2013,Snacks,Lithuania, 9112.0,9112.0

2013,Snacks,Luxembourg, 8956.0,8956.0

2013,Snacks,Madagascar, 9946.0,2177.0

2013,Snacks,Malta, 5493.0,5493.0

2013,Snacks,Marshall Islands, 5269.0,5269.0

2013,Snacks,Mauritius , 908.0,65.0

2013,Snacks,Mexico, 7898.0,7898.0

2013,Snacks,Moldova , 8677.0,3116.0

2013,Snacks,Mongolia, 5850.0,1966.0

2013,Snacks,Morocco, 4806.0,1742.0

2013,Snacks,Mozambique, 9653.0,9653.0

2013,Snacks,Myanmar, 5983.0,5983.0

2013,Snacks,Namibia, 7701.0,7701.0

2013,Snacks,Nauru, 7752.0,7752.0

2013,Snacks,Nepal, 8783.0,8783.0

2013,Snacks,Netherlands, 6721.0,895.0

2013,Snacks,New Zealand, 6643.0,817.0

2013,Snacks,Niger, 8109.0,1439.0

2013,Snacks,Norway, 4623.0,2415.0

2013,Snacks,Oman, 9932.0,9932.0

2013,Snacks,Pakistan, 8677.0,8677.0

2013,Snacks,Panama, 9232.0,9232.0

2013,Snacks,Philippines, 8636.0,5850.0

2013,Snacks,Poland, 9483.0,5599.0

2013,Snacks,Portugal, 2813.0,2813.0

2013,Snacks,Qatar, 3684.0,3684.0

2013,Snacks,Republic of the Congo, 7092.0,1820.0

2013,Snacks,Russia, 1147.0,1147.0

2013,Snacks,Saint Lucia, 4490.0,606.0

2013,Snacks,Saint Vincent and the Grenadines, 7674.0,5612.0

2013,Snacks,San Marino, 6153.0,6153.0

2013,Snacks,Sao Tome and Principe, 7820.0,4779.0

2013,Snacks,Saudi Arabia, 1596.0,487.0

2013,Snacks,Senegal, 5466.0,2680.0

2013,Snacks,Sierra Leone, 8929.0,7806.0

2013,Snacks,Singapore, 5704.0,5704.0

2013,Snacks,South Africa, 8783.0,1847.0

2013,Snacks,South Korea, 4490.0,4490.0

2013,Snacks,Spain, 4041.0,1544.0

2013,Snacks,Sri Lanka, 7925.0,3895.0

2013,Snacks,Sudan, 6419.0,4476.0

2013,Snacks,Swaziland, 9048.0,446.0

2013,Snacks,Sweden, 4728.0,4174.0

2013,Snacks,Switzerland, 3762.0,3762.0

2013,Snacks,Syria, 6854.0,6854.0

2013,Snacks,Tanzania, 1677.0,1677.0

2013,Snacks,The Bahamas, 4833.0,2337.0

2013,Snacks,The Gambia, 7065.0,7065.0

2013,Snacks,Togo, 7238.0,7238.0

2013,Snacks,Trinidad and Tobago, 8796.0,8796.0

2013,Snacks,Turkey, 7276.0,3657.0

2013,Snacks,Turkmenistan, 9840.0,9840.0

2013,Snacks,Tuvalu, 368.0,368.0

2013,Snacks,Uzbekistan, 3749.0,3749.0

2013,Snacks,Vatican City, 7078.0,5136.0

2013,Snacks,Vietnam, 8320.0,817.0

2013,Snacks,Zimbabwe, 4317.0,4317.0

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2013,Snacks,Albania, 4766.0,4766.0

2013,Snacks,Algeria, 3725.0,3725.0

2013,Snacks,Andorra, 7106.0,7106.0

2013,Snacks,Antigua and Barbuda , 3446.0,3446.0

2013,Snacks,Armenia, 2255.0,2255.0

2013,Snacks,Australia, 5269.0,1531.0

2013,Snacks,Austria, 592.0,592.0

2013,Snacks,Azerbaijan, 262.0,262.0

2013,Snacks,Bahrain, 6497.0,6497.0

2013,Snacks,Barbados, 8306.0,1926.0

2013,Snacks,Belarus, 3486.0,2099.0

2013,Snacks,Benin, 4344.0,2402.0

2013,Snacks,Bosnia and Herzegovina, 8082.0,8082.0

2013,Snacks,Botswana, 9616.0,3235.0

2013,Snacks,Brunei, 6602.0,2164.0

2013,Snacks,Bulgaria, 3762.0,3762.0

2013,Snacks,Burkina Faso, 6419.0,592.0

2013,Snacks,Canada, 9997.0,1939.0

2013,Snacks,Central African Republic, 6827.0,6827.0

2013,Snacks,Chad, 3776.0,3776.0

2013,Snacks,China, 3395.0,3395.0

2013,Snacks,Comoros, 6405.0,6405.0

2013,Snacks,Costa Rica, 5653.0,1623.0

2013,Snacks,Croatia, 7779.0,5282.0

2013,Snacks,Cyprus, 7368.0,698.0

2013,Snacks,Czech Republic, 3473.0,3473.0

2013,Snacks,Democratic Republic of the Congo, 8888.0,8334.0

2013,Snacks,Denmark, 5823.0,4160.0

2013,Snacks,Djibouti, 8755.0,8755.0

2013,Snacks,Dominica, 9548.0,3432.0

2013,Snacks,Dominican Republic, 8704.0,646.0

2013,Snacks,East Timor, 8599.0,2507.0

2013,Snacks,Ethiopia, 5956.0,5956.0

2013,Snacks,Fiji, 9575.0,963.0

2013,Snacks,France, 6089.0,5823.0

2013,Snacks,Gabon, 1371.0,817.0

2013,Snacks,Germany, 9840.0,6075.0

2013,Snacks,Ghana, 4568.0,4568.0

2013,Snacks,Greenland, 7211.0,6946.0

2013,Snacks,Guinea, 6908.0,1636.0

2013,Snacks,Guinea-Bissau, 8993.0,2613.0

2013,Snacks,Haiti, 8677.0,8677.0

2013,Snacks,Honduras, 5361.0,5361.0

2013,Snacks,Hungary, 9272.0,3446.0

2013,Snacks,India, 9364.0,9099.0

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2013,Snacks,Jamaica, 9932.0,487.0

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2013,Snacks,Jordan, 6895.0,1068.0

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2013,Snacks,Malta, 5493.0,5493.0

2013,Snacks,Marshall Islands, 5269.0,5269.0

2013,Snacks,Mauritius , 908.0,65.0

2013,Snacks,Mexico, 7898.0,7898.0

2013,Snacks,Moldova , 8677.0,3116.0

2013,Snacks,Mongolia, 5850.0,1966.0

2013,Snacks,Morocco, 4806.0,1742.0

2013,Snacks,Mozambique, 9653.0,9653.0

2013,Snacks,Myanmar, 5983.0,5983.0

2013,Snacks,Namibia, 7701.0,7701.0

2013,Snacks,Nauru, 7752.0,7752.0

2013,Snacks,Nepal, 8783.0,8783.0

2013,Snacks,Netherlands, 6721.0,895.0

2013,Snacks,New Zealand, 6643.0,817.0

2013,Snacks,Niger, 8109.0,1439.0

2013,Snacks,Norway, 4623.0,2415.0

2013,Snacks,Oman, 9932.0,9932.0

2013,Snacks,Pakistan, 8677.0,8677.0

2013,Snacks,Panama, 9232.0,9232.0

2013,Snacks,Philippines, 8636.0,5850.0

2013,Snacks,Poland, 9483.0,5599.0

2013,Snacks,Portugal, 2813.0,2813.0

2013,Snacks,Qatar, 3684.0,3684.0

2013,Snacks,Republic of the Congo, 7092.0,1820.0

2013,Snacks,Russia, 1147.0,1147.0

2013,Snacks,Saint Lucia, 4490.0,606.0

2013,Snacks,Saint Vincent and the Grenadines, 7674.0,5612.0

2013,Snacks,San Marino, 6153.0,6153.0

2013,Snacks,Sao Tome and Principe, 7820.0,4779.0

2013,Snacks,Saudi Arabia, 1596.0,487.0

2013,Snacks,Senegal, 5466.0,2680.0

2013,Snacks,Sierra Leone, 8929.0,7806.0

2013,Snacks,Singapore, 5704.0,5704.0

2013,Snacks,South Africa, 8783.0,1847.0

2013,Snacks,South Korea, 4490.0,4490.0

2013,Snacks,Spain, 4041.0,1544.0

2013,Snacks,Sri Lanka, 7925.0,3895.0

2013,Snacks,Sudan, 6419.0,4476.0

2013,Snacks,Swaziland, 9048.0,446.0

2013,Snacks,Sweden, 4728.0,4174.0

2013,Snacks,Switzerland, 3762.0,3762.0

2013,Snacks,Syria, 6854.0,6854.0

2013,Snacks,Tanzania, 1677.0,1677.0

2013,Snacks,The Bahamas, 4833.0,2337.0

2013,Snacks,The Gambia, 7065.0,7065.0

2013,Snacks,Togo, 7238.0,7238.0

2013,Snacks,Trinidad and Tobago, 8796.0,8796.0

2013,Snacks,Turkey, 7276.0,3657.0

2013,Snacks,Turkmenistan, 9840.0,9840.0

2013,Snacks,Tuvalu, 368.0,368.0

2013,Snacks,Uzbekistan, 3749.0,3749.0

2013,Snacks,Vatican City, 7078.0,5136.0

2013,Snacks,Vietnam, 8320.0,817.0

2013,Snacks,Zimbabwe, 4317.0,4317.0

PS D:\For\_hadoop\Assignment\_Group\_150\Assignment> hadoop fs -cat /MapReduce\_unitsSold/part-r-00002

2021-09-05 22:44:07,279 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

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2014,Snacks,Albania, 9643.0,4813.0

2014,Snacks,Algeria, 5402.0,17.0

2014,Snacks,Andorra, 8959.0,1734.0

2014,Snacks,Angola, 7717.0,1466.0

2014,Snacks,Antigua and Barbuda , 9619.0,133.0

2014,Snacks,Armenia, 9351.0,5177.0

2014,Snacks,Australia, 8361.0,1691.0

2014,Snacks,Austria, 7806.0,479.0

2014,Snacks,Azerbaijan, 7374.0,1796.0

2014,Snacks,Bahrain, 7796.0,163.0

2014,Snacks,Bangladesh, 8469.0,2473.0

2014,Snacks,Barbados, 4877.0,1228.0

2014,Snacks,Belarus, 8639.0,1850.0

2014,Snacks,Belgium, 7850.0,2112.0

2014,Snacks,Belize, 5711.0,952.0

2014,Snacks,Benin, 9762.0,884.0

2014,Snacks,Bhutan, 9830.0,2367.0

2014,Snacks,Bosnia and Herzegovina, 3224.0,609.0

2014,Snacks,Botswana, 9381.0,184.0

2014,Snacks,Brunei, 9990.0,558.0

2014,Snacks,Bulgaria, 8520.0,1602.0

2014,Snacks,Burkina Faso, 8520.0,4228.0

2014,Snacks,Burundi, 8840.0,3398.0

2014,Snacks,Cambodia, 9803.0,1799.0

2014,Snacks,Cameroon, 5908.0,636.0

2014,Snacks,Canada, 9194.0,3078.0

2014,Snacks,Cape Verde, 8377.0,2976.0

2014,Snacks,Central African Republic, 9779.0,2275.0

2014,Snacks,Chad, 8783.0,1415.0

2014,Snacks,China, 9976.0,225.0

2014,Snacks,Comoros, 8813.0,320.0

2014,Snacks,Costa Rica, 6776.0,1680.0

2014,Snacks,Cote d'Ivoire, 7969.0,1004.0

2014,Snacks,Croatia, 6262.0,3252.0

2014,Snacks,Cuba, 8602.0,136.0

2014,Snacks,Cyprus, 9646.0,1837.0

2014,Snacks,Czech Republic, 9051.0,3343.0

2014,Snacks,Democratic Republic of the Congo, 9632.0,146.0

2014,Snacks,Denmark, 8510.0,2643.0

2014,Snacks,Djibouti, 9340.0,439.0

2014,Snacks,Dominica, 8337.0,1347.0

2014,Snacks,Dominican Republic, 8894.0,92.0

2014,Snacks,East Timor, 9456.0,1704.0

2014,Snacks,Egypt, 8204.0,1109.0

2014,Snacks,El Salvador, 8034.0,1493.0

2014,Snacks,Equatorial Guinea, 9884.0,1969.0

2014,Snacks,Eritrea, 9898.0,466.0

2014,Snacks,Estonia, 7095.0,595.0

2014,Snacks,Ethiopia, 8891.0,425.0

2014,Snacks,Federated States of Micronesia, 9327.0,2786.0

2014,Snacks,Fiji, 7255.0,1269.0

2014,Snacks,Finland, 9724.0,2350.0

2014,Snacks,France, 7082.0,582.0

2014,Snacks,Gabon, 9330.0,3592.0

2014,Snacks,Georgia, 8364.0,2378.0

2014,Snacks,Germany, 9197.0,673.0

2014,Snacks,Ghana, 6221.0,17.0

2014,Snacks,Greece, 7942.0,279.0

2014,Snacks,Greenland, 8493.0,2537.0

2014,Snacks,Grenada, 7728.0,1217.0

2014,Snacks,Guatemala, 9843.0,3.0

2014,Snacks,Guinea, 8891.0,2646.0

2014,Snacks,Guinea-Bissau, 9040.0,1650.0

2014,Snacks,Haiti, 9827.0,411.0

2014,Snacks,Honduras, 8707.0,255.0

2014,Snacks,Hungary, 7507.0,1095.0

2014,Snacks,Iceland, 5826.0,1098.0

2014,Snacks,India, 9990.0,4003.0

2014,Snacks,Indonesia, 7861.0,1201.0

2014,Snacks,Iran, 10000.0,6105.0

2014,Snacks,Iraq, 7476.0,847.0

2014,Snacks,Ireland, 7782.0,238.0

2014,Snacks,Israel, 9986.0,252.0

2014,Snacks,Italy, 8599.0,2034.0

2014,Snacks,Jamaica, 6762.0,2445.0

2014,Snacks,Japan, 6752.0,2738.0

2014,Snacks,Jordan, 4864.0,1228.0

2014,Snacks,Kazakhstan, 8691.0,649.0

2014,Snacks,Kenya, 7095.0,1929.0

2014,Snacks,Kiribati, 9589.0,728.0

2014,Snacks,Kosovo, 8629.0,1245.0

2014,Snacks,Kuwait, 8762.0,704.0

2014,Snacks,Kyrgyzstan, 7160.0,1323.0

2014,Snacks,Laos, 9235.0,1047.0

2014,Snacks,Latvia, 7728.0,136.0

2014,Snacks,Lebanon, 9418.0,3173.0

2014,Snacks,Lesotho, 5432.0,384.0

2014,Snacks,Liberia, 8615.0,1242.0

2014,Snacks,Libya, 9568.0,2881.0

2014,Snacks,Liechtenstein, 7027.0,3.0

2014,Snacks,Lithuania, 7915.0,1799.0

2014,Snacks,Luxembourg, 9303.0,1612.0

2014,Snacks,Macedonia, 9700.0,1772.0

2014,Snacks,Madagascar, 7071.0,3187.0

2014,Snacks,Malawi, 8323.0,1228.0

2014,Snacks,Malaysia, 7412.0,316.0

2014,Snacks,Maldives, 9102.0,915.0

2014,Snacks,Mali, 9813.0,2180.0

2014,Snacks,Malta, 9962.0,1745.0

2014,Snacks,Marshall Islands, 9313.0,1561.0

2014,Snacks,Mauritania, 7187.0,517.0

2014,Snacks,Mauritius , 8163.0,500.0

2014,Snacks,Mexico, 9881.0,1109.0

2014,Snacks,Moldova , 8034.0,8034.0

2014,Snacks,Monaco, 6925.0,95.0

2014,Snacks,Mongolia, 9895.0,54.0

2014,Snacks,Montenegro, 9932.0,646.0

2014,Snacks,Morocco, 8867.0,663.0

2014,Snacks,Mozambique, 8136.0,4428.0

2014,Snacks,Myanmar, 8799.0,1585.0

2014,Snacks,Namibia, 9378.0,238.0

2014,Snacks,Nauru, 9446.0,14.0

2014,Snacks,Nepal, 7820.0,755.0

2014,Snacks,Netherlands, 8445.0,796.0

2014,Snacks,New Zealand, 8905.0,292.0

2014,Snacks,Nicaragua, 8429.0,806.0

2014,Snacks,Niger, 5524.0,211.0

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2014,Snacks,North Korea, 9075.0,1177.0

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2014,Snacks,Pakistan, 9568.0,1350.0

2014,Snacks,Palau, 6221.0,1126.0

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2014,Snacks,Papua New Guinea, 9551.0,2922.0

2014,Snacks,Philippines, 8537.0,1034.0

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2014,Snacks,Portugal, 9803.0,228.0

2014,Snacks,Qatar, 7993.0,2167.0

2014,Snacks,Republic of the Congo, 3792.0,303.0

2014,Snacks,Romania, 7714.0,200.0

2014,Snacks,Russia, 9075.0,1306.0

2014,Snacks,Rwanda, 9235.0,238.0

2014,Snacks,Saint Kitts and Nevis , 9830.0,238.0

2014,Snacks,Saint Lucia, 9803.0,109.0

2014,Snacks,Saint Vincent and the Grenadines, 9102.0,3027.0

2014,Snacks,Samoa , 7901.0,1507.0

2014,Snacks,San Marino, 8799.0,7966.0

2014,Snacks,Sao Tome and Principe, 9088.0,3262.0

2014,Snacks,Saudi Arabia, 7044.0,3438.0

2014,Snacks,Senegal, 7030.0,81.0

2014,Snacks,Serbia, 9497.0,2272.0

2014,Snacks,Seychelles , 6619.0,95.0

2014,Snacks,Sierra Leone, 9088.0,1745.0

2014,Snacks,Singapore, 9500.0,2156.0

2014,Snacks,Slovakia, 9486.0,609.0

2014,Snacks,Slovenia, 7983.0,68.0

2014,Snacks,Solomon Islands, 9857.0,3.0

2014,Snacks,Somalia, 8575.0,1231.0

2014,Snacks,South Africa, 9762.0,755.0

2014,Snacks,South Korea, 8010.0,765.0

2014,Snacks,South Sudan, 9776.0,490.0

2014,Snacks,Spain, 8374.0,2259.0

2014,Snacks,Sri Lanka, 9779.0,741.0

2014,Snacks,Sudan, 9748.0,1306.0

2014,Snacks,Swaziland, 9078.0,1745.0

2014,Snacks,Sweden, 7850.0,1469.0

2014,Snacks,Switzerland, 9748.0,1442.0

2014,Snacks,Syria, 9262.0,1877.0

2014,Snacks,Taiwan, 7503.0,5762.0

2014,Snacks,Tajikistan, 9735.0,1677.0

2014,Snacks,Tanzania, 8932.0,2857.0

2014,Snacks,Thailand, 9867.0,3238.0

2014,Snacks,The Bahamas, 9721.0,425.0

2014,Snacks,The Gambia, 9857.0,1840.0

2014,Snacks,Togo, 8667.0,1572.0

2014,Snacks,Tonga, 7650.0,2048.0

2014,Snacks,Trinidad and Tobago, 9541.0,768.0

2014,Snacks,Tunisia , 8810.0,809.0

2014,Snacks,Turkey, 3014.0,1031.0

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2014,Snacks,Tuvalu, 9446.0,833.0

2014,Snacks,Uganda, 9513.0,2973.0

2014,Snacks,Ukraine, 9194.0,1456.0

2014,Snacks,United Arab Emirates, 9102.0,1061.0

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2014,Snacks,United States of America, 8496.0,993.0

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2014,Snacks,Vanuatu, 9537.0,1786.0

2014,Snacks,Vatican City, 8347.0,449.0

2014,Snacks,Vietnam, 9884.0,422.0

2014,Snacks,Yemen, 7993.0,1571.0

2014,Snacks,Zambia, 5323.0,2272.0

2014,Snacks,Zimbabwe, 9340.0,3939.0

PS D:\For\_hadoop\Assignment\_Group\_150\Assignment> hadoop fs -cat /MapReduce\_unitsSold/part-r-00003

2021-09-05 22:44:11,984 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

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2015,Snacks,Armenia, 9687.0,1659.0

2015,Snacks,Australia, 6319.0,669.0

2015,Snacks,Austria, 8697.0,2027.0

2015,Snacks,Azerbaijan, 7269.0,1448.0

2015,Snacks,Bahrain, 7843.0,3125.0

2015,Snacks,Bangladesh, 9639.0,601.0

2015,Snacks,Barbados, 9636.0,61.0

2015,Snacks,Belarus, 9295.0,1527.0

2015,Snacks,Belgium, 2360.0,931.0

2015,Snacks,Belize, 6336.0,598.0

2015,Snacks,Benin, 9000.0,2200.0

2015,Snacks,Bhutan, 9612.0,296.0

2015,Snacks,Bosnia and Herzegovina, 8448.0,1370.0

2015,Snacks,Botswana, 8299.0,2768.0

2015,Snacks,Brunei, 9040.0,999.0

2015,Snacks,Bulgaria, 9105.0,918.0

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2015,Snacks,Canada, 9955.0,85.0

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2015,Snacks,Chad, 8741.0,772.0

2015,Snacks,China, 8489.0,6.0

2015,Snacks,Comoros, 9822.0,945.0

2015,Snacks,Costa Rica, 8965.0,323.0

2015,Snacks,Cote d'Ivoire, 9952.0,1356.0

2015,Snacks,Croatia, 8156.0,4142.0

2015,Snacks,Cuba, 6003.0,2993.0

2015,Snacks,Cyprus, 9557.0,2013.0

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2015,Snacks,El Salvador, 9333.0,867.0

2015,Snacks,Equatorial Guinea, 9241.0,5357.0

2015,Snacks,Eritrea, 5884.0,2979.0

2015,Snacks,Estonia, 9782.0,71.0

2015,Snacks,Ethiopia, 9942.0,921.0

2015,Snacks,Federated States of Micronesia, 761.0,377.0

2015,Snacks,Fiji, 7296.0,7166.0

2015,Snacks,Finland, 7983.0,4789.0

2015,Snacks,France, 9955.0,2275.0

2015,Snacks,Gabon, 9506.0,775.0

2015,Snacks,Georgia, 7721.0,323.0

2015,Snacks,Germany, 9533.0,71.0

2015,Snacks,Ghana, 4221.0,1299.0

2015,Snacks,Greece, 7299.0,1448.0

2015,Snacks,Greenland, 9095.0,74.0

2015,Snacks,Grenada, 8472.0,4499.0

2015,Snacks,Guatemala, 7129.0,734.0

2015,Snacks,Guinea, 9476.0,775.0

2015,Snacks,Guinea-Bissau, 9241.0,2394.0

2015,Snacks,Haiti, 8894.0,282.0

2015,Snacks,Honduras, 8897.0,455.0

2015,Snacks,Hungary, 9649.0,482.0

2015,Snacks,Iceland, 8700.0,2703.0

2015,Snacks,India, 8738.0,839.0

2015,Snacks,Indonesia, 7948.0,547.0

2015,Snacks,Iran, 7404.0,1418.0

2015,Snacks,Iraq, 9081.0,1142.0

2015,Snacks,Ireland, 9901.0,598.0

2015,Snacks,Israel, 5346.0,442.0

2015,Snacks,Italy, 7972.0,2105.0

2015,Snacks,Jamaica, 9465.0,2925.0

2015,Snacks,Japan, 9438.0,401.0

2015,Snacks,Jordan, 9462.0,47.0

2015,Snacks,Kazakhstan, 6955.0,1819.0

2015,Snacks,Kenya, 9928.0,731.0

2015,Snacks,Kiribati, 6595.0,3720.0

2015,Snacks,Kosovo, 5329.0,1421.0

2015,Snacks,Kuwait, 9771.0,1023.0

2015,Snacks,Kyrgyzstan, 9847.0,112.0

2015,Snacks,Laos, 7877.0,4459.0

2015,Snacks,Latvia, 7799.0,1989.0

2015,Snacks,Lebanon, 1302.0,33.0

2015,Snacks,Lesotho, 7829.0,455.0

2015,Snacks,Liberia, 9625.0,2925.0

2015,Snacks,Libya, 3347.0,3258.0

2015,Snacks,Liechtenstein, 8207.0,469.0

2015,Snacks,Lithuania, 9054.0,996.0

2015,Snacks,Luxembourg, 8353.0,1010.0

2015,Snacks,Macedonia, 9595.0,969.0

2015,Snacks,Madagascar, 8925.0,3782.0

2015,Snacks,Malawi, 9333.0,1026.0

2015,Snacks,Malaysia, 6639.0,1237.0

2015,Snacks,Maldives, 6812.0,1251.0

2015,Snacks,Mali, 9612.0,61.0

2015,Snacks,Malta, 9714.0,3.0

2015,Snacks,Marshall Islands, 9401.0,612.0

2015,Snacks,Mauritania, 8894.0,299.0

2015,Snacks,Mauritius , 8051.0,47.0

2015,Snacks,Mexico, 9663.0,2438.0

2015,Snacks,Moldova , 8619.0,986.0

2015,Snacks,Monaco, 8632.0,431.0

2015,Snacks,Mongolia, 6346.0,391.0

2015,Snacks,Montenegro, 7234.0,823.0

2015,Snacks,Morocco, 9860.0,4459.0

2015,Snacks,Mozambique, 9187.0,969.0

2015,Snacks,Myanmar, 9690.0,1792.0

2015,Snacks,Namibia, 7772.0,1408.0

2015,Snacks,Nauru, 5343.0,615.0

2015,Snacks,Nepal, 9414.0,377.0

2015,Snacks,Netherlands, 9190.0,5860.0

2015,Snacks,New Zealand, 9795.0,1738.0

2015,Snacks,Nicaragua, 9159.0,8765.0

2015,Snacks,Niger, 9438.0,836.0

2015,Snacks,Nigeria, 9877.0,721.0

2015,Snacks,North Korea, 8591.0,20.0

2015,Snacks,Norway, 8370.0,1789.0

2015,Snacks,Oman, 8356.0,1013.0

2015,Snacks,Pakistan, 8340.0,836.0

2015,Snacks,Palau, 8146.0,1156.0

2015,Snacks,Panama, 5554.0,136.0

2015,Snacks,Papua New Guinea, 9942.0,2438.0

2015,Snacks,Philippines, 9982.0,272.0

2015,Snacks,Poland, 9571.0,1088.0

2015,Snacks,Portugal, 9265.0,653.0

2015,Snacks,Qatar, 9292.0,1115.0

2015,Snacks,Republic of the Congo, 9547.0,2611.0

2015,Snacks,Romania, 9952.0,707.0

2015,Snacks,Russia, 8578.0,2067.0

2015,Snacks,Rwanda, 9176.0,1248.0

2015,Snacks,Saint Kitts and Nevis , 9700.0,969.0

2015,Snacks,Saint Lucia, 9874.0,693.0

2015,Snacks,Saint Vincent and the Grenadines, 9438.0,152.0

2015,Snacks,Samoa , 6136.0,1578.0

2015,Snacks,San Marino, 9554.0,2081.0

2015,Snacks,Sao Tome and Principe, 9159.0,1656.0

2015,Snacks,Saudi Arabia, 8343.0,1129.0

2015,Snacks,Senegal, 9422.0,6812.0

2015,Snacks,Serbia, 9309.0,2449.0

2015,Snacks,Seychelles , 8867.0,809.0

2015,Snacks,Sierra Leone, 9819.0,1762.0

2015,Snacks,Singapore, 8727.0,115.0

2015,Snacks,Slovakia, 8329.0,2343.0

2015,Snacks,Slovenia, 9819.0,2227.0

2015,Snacks,Somalia, 7377.0,428.0

2015,Snacks,South Africa, 8989.0,2054.0

2015,Snacks,South Korea, 5819.0,4986.0

2015,Snacks,South Sudan, 4989.0,1074.0

2015,Snacks,Spain, 8156.0,2874.0

2015,Snacks,Sri Lanka, 6904.0,4142.0

2015,Snacks,Sudan, 9996.0,1632.0

2015,Snacks,Swaziland, 9279.0,3309.0

2015,Snacks,Sweden, 9149.0,3017.0

2015,Snacks,Switzerland, 8962.0,1194.0

2015,Snacks,Syria, 7785.0,6.0

2015,Snacks,Taiwan, 9952.0,785.0

2015,Snacks,Tajikistan, 9925.0,231.0

2015,Snacks,Tanzania, 9717.0,2608.0

2015,Snacks,Thailand, 9955.0,204.0

2015,Snacks,The Bahamas, 8819.0,8819.0

2015,Snacks,The Gambia, 9095.0,1751.0

2015,Snacks,Togo, 9966.0,2316.0

2015,Snacks,Tonga, 7550.0,761.0

2015,Snacks,Trinidad and Tobago, 9966.0,1264.0

2015,Snacks,Tunisia , 6826.0,1642.0

2015,Snacks,Turkey, 7234.0,823.0

2015,Snacks,Turkmenistan, 8989.0,1091.0

2015,Snacks,Tuvalu, 9636.0,2397.0

2015,Snacks,Uganda, 7064.0,3982.0

2015,Snacks,Ukraine, 8846.0,2755.0

2015,Snacks,United Arab Emirates, 5802.0,401.0

2015,Snacks,United Kingdom, 9823.0,1445.0

2015,Snacks,United States of America, 6731.0,1472.0

2015,Snacks,Uzbekistan, 7734.0,71.0

2015,Snacks,Vanuatu, 8662.0,2660.0

2015,Snacks,Vatican City, 7999.0,1778.0

2015,Snacks,Vietnam, 8686.0,775.0

2015,Snacks,Yemen, 9411.0,4404.0

2015,Snacks,Zambia, 9398.0,537.0

2015,Snacks,Zimbabwe, 9982.0,214.0

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2021-09-05 22:44:16,808 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

2016,Snacks,Afghanistan, 9720.0,1213.0

2016,Snacks,Albania, 7251.0,5162.0

2016,Snacks,Algeria, 9155.0,656.0

2016,Snacks,Andorra, 7832.0,883.0

2016,Snacks,Angola, 7819.0,5628.0

2016,Snacks,Antigua and Barbuda , 9006.0,5812.0

2016,Snacks,Armenia, 7557.0,142.0

2016,Snacks,Australia, 9707.0,4584.0

2016,Snacks,Austria, 9441.0,1384.0

2016,Snacks,Azerbaijan, 7346.0,805.0

2016,Snacks,Bahrain, 9111.0,499.0

2016,Snacks,Bangladesh, 8836.0,648.0

2016,Snacks,Barbados, 9547.0,2863.0

2016,Snacks,Belarus, 8652.0,1703.0

2016,Snacks,Belgium, 6115.0,23.0

2016,Snacks,Belize, 7594.0,645.0

2016,Snacks,Benin, 9350.0,199.0

2016,Snacks,Bhutan, 9523.0,502.0

2016,Snacks,Bosnia and Herzegovina, 9853.0,142.0

2016,Snacks,Botswana, 8666.0,737.0

2016,Snacks,Brunei, 9377.0,4778.0

2016,Snacks,Bulgaria, 7530.0,700.0

2016,Snacks,Burkina Faso, 7676.0,332.0

2016,Snacks,Burundi, 9472.0,594.0

2016,Snacks,Cambodia, 8982.0,4808.0

2016,Snacks,Cameroon, 7077.0,1121.0

2016,Snacks,Canada, 9152.0,2074.0

2016,Snacks,Cape Verde, 9074.0,142.0

2016,Snacks,Central African Republic, 9720.0,740.0

2016,Snacks,Chad, 8652.0,1427.0

2016,Snacks,China, 7686.0,1305.0

2016,Snacks,Comoros, 6812.0,407.0

2016,Snacks,Costa Rica, 9975.0,394.0

2016,Snacks,Cote d'Ivoire, 9999.0,288.0

2016,Snacks,Croatia, 7649.0,1662.0

2016,Snacks,Cuba, 8690.0,2190.0

2016,Snacks,Cyprus, 6234.0,1240.0

2016,Snacks,Czech Republic, 5853.0,172.0

2016,Snacks,Democratic Republic of the Congo, 9295.0,700.0

2016,Snacks,Denmark, 9006.0,1125.0

2016,Snacks,Djibouti, 6802.0,816.0

2016,Snacks,Dominica, 7434.0,1873.0

2016,Snacks,Dominican Republic, 9696.0,2850.0

2016,Snacks,East Timor, 9591.0,394.0

2016,Snacks,Egypt, 8996.0,2030.0

2016,Snacks,El Salvador, 8411.0,673.0

2016,Snacks,Equatorial Guinea, 5268.0,1968.0

2016,Snacks,Eritrea, 9020.0,4173.0

2016,Snacks,Estonia, 8217.0,2744.0

2016,Snacks,Ethiopia, 9812.0,686.0

2016,Snacks,Federated States of Micronesia, 9869.0,832.0

2016,Snacks,Fiji, 8730.0,159.0

2016,Snacks,Finland, 5125.0,975.0

2016,Snacks,France, 9866.0,3315.0

2016,Snacks,Gabon, 8614.0,291.0

2016,Snacks,Georgia, 9414.0,424.0

2016,Snacks,Germany, 6907.0,1241.0

2016,Snacks,Ghana, 8305.0,278.0

2016,Snacks,Greece, 7315.0,3856.0

2016,Snacks,Greenland, 8482.0,145.0

2016,Snacks,Grenada, 4819.0,502.0

2016,Snacks,Guatemala, 7594.0,2996.0

2016,Snacks,Guinea, 9288.0,4570.0

2016,Snacks,Guinea-Bissau, 8846.0,234.0

2016,Snacks,Haiti, 9815.0,2166.0

2016,Snacks,Honduras, 8135.0,632.0

2016,Snacks,Hungary, 8846.0,1213.0

2016,Snacks,Iceland, 9285.0,248.0

2016,Snacks,India, 7700.0,6312.0

2016,Snacks,Indonesia, 8373.0,924.0

2016,Snacks,Iran, 9812.0,2309.0

2016,Snacks,Iraq, 9985.0,1479.0

2016,Snacks,Ireland, 8135.0,77.0

2016,Snacks,Israel, 9975.0,264.0

2016,Snacks,Italy, 9985.0,1373.0

2016,Snacks,Jamaica, 9771.0,764.0

2016,Snacks,Japan, 8241.0,2271.0

2016,Snacks,Jordan, 4676.0,4676.0

2016,Snacks,Kazakhstan, 8111.0,213.0

2016,Snacks,Kenya, 9155.0,394.0

2016,Snacks,Kiribati, 9282.0,2877.0

2016,Snacks,Kosovo, 8996.0,2472.0

2016,Snacks,Kuwait, 9812.0,1754.0

2016,Snacks,Kyrgyzstan, 9469.0,2798.0

2016,Snacks,Laos, 6986.0,3775.0

2016,Snacks,Latvia, 9812.0,237.0

2016,Snacks,Lebanon, 6077.0,3669.0

2016,Snacks,Lesotho, 8690.0,2019.0

2016,Snacks,Liberia, 9417.0,1608.0

2016,Snacks,Libya, 8411.0,353.0

2016,Snacks,Liechtenstein, 9407.0,1054.0

2016,Snacks,Lithuania, 9101.0,907.0

2016,Snacks,Luxembourg, 9829.0,223.0

2016,Snacks,Macedonia, 8149.0,645.0

2016,Snacks,Madagascar, 8427.0,2720.0

2016,Snacks,Malawi, 9958.0,3537.0

2016,Snacks,Malaysia, 9366.0,2111.0

2016,Snacks,Maldives, 9469.0,843.0

2016,Snacks,Mali, 7026.0,5349.0

2016,Snacks,Malta, 8693.0,210.0

2016,Snacks,Marshall Islands, 4319.0,3999.0

2016,Snacks,Mauritania, 9390.0,2312.0

2016,Snacks,Mauritius , 8241.0,1026.0

2016,Snacks,Mexico, 9693.0,802.0

2016,Snacks,Moldova , 9349.0,778.0

2016,Snacks,Monaco, 6312.0,1424.0

2016,Snacks,Mongolia, 9588.0,3366.0

2016,Snacks,Montenegro, 3380.0,356.0

2016,Snacks,Morocco, 8839.0,1625.0

2016,Snacks,Mozambique, 9771.0,37.0

2016,Snacks,Myanmar, 9601.0,1584.0

2016,Snacks,Namibia, 8533.0,1744.0

2016,Snacks,Nauru, 9458.0,2788.0

2016,Snacks,Nepal, 2520.0,23.0

2016,Snacks,Netherlands, 9615.0,1173.0

2016,Snacks,New Zealand, 9271.0,499.0

2016,Snacks,Nicaragua, 9496.0,618.0

2016,Snacks,Niger, 9220.0,80.0

2016,Snacks,Nigeria, 8530.0,3264.0

2016,Snacks,North Korea, 8125.0,870.0

2016,Snacks,Norway, 7526.0,6723.0

2016,Snacks,Oman, 9496.0,251.0

2016,Snacks,Pakistan, 9934.0,489.0

2016,Snacks,Palau, 4118.0,938.0

2016,Snacks,Panama, 8530.0,1186.0

2016,Snacks,Papua New Guinea, 8690.0,1754.0

2016,Snacks,Philippines, 6842.0,1400.0

2016,Snacks,Poland, 8679.0,3366.0

2016,Snacks,Portugal, 9761.0,50.0

2016,Snacks,Qatar, 8690.0,77.0

2016,Snacks,Republic of the Congo, 9618.0,1400.0

2016,Snacks,Romania, 3394.0,183.0

2016,Snacks,Russia, 9877.0,1730.0

2016,Snacks,Rwanda, 7016.0,1714.0

2016,Snacks,Saint Kitts and Nevis , 7965.0,911.0

2016,Snacks,Saint Lucia, 9761.0,458.0

2016,Snacks,Saint Vincent and the Grenadines, 9220.0,1876.0

2016,Snacks,Samoa , 9666.0,2339.0

2016,Snacks,San Marino, 9047.0,445.0

2016,Snacks,Sao Tome and Principe, 9761.0,1013.0

2016,Snacks,Saudi Arabia, 9128.0,5203.0

2016,Snacks,Senegal, 9758.0,2254.0

2016,Snacks,Serbia, 8387.0,288.0

2016,Snacks,Seychelles , 8768.0,1424.0

2016,Snacks,Sierra Leone, 9366.0,594.0

2016,Snacks,Singapore, 8319.0,26.0

2016,Snacks,Slovakia, 9877.0,142.0

2016,Snacks,Slovenia, 156.0,156.0

2016,Snacks,Solomon Islands, 7040.0,819.0

2016,Snacks,Somalia, 9655.0,724.0

2016,Snacks,South Africa, 9615.0,737.0

2016,Snacks,South Korea, 8227.0,867.0

2016,Snacks,South Sudan, 6723.0,142.0

2016,Snacks,Spain, 9921.0,1863.0

2016,Snacks,Sri Lanka, 9455.0,2785.0

2016,Snacks,Sudan, 8638.0,2128.0

2016,Snacks,Swaziland, 9921.0,1149.0

2016,Snacks,Sweden, 2815.0,448.0

2016,Snacks,Switzerland, 9458.0,261.0

2016,Snacks,Syria, 4911.0,64.0

2016,Snacks,Taiwan, 7343.0,1427.0

2016,Snacks,Tajikistan, 9428.0,172.0

2016,Snacks,Tanzania, 9894.0,2520.0

2016,Snacks,Thailand, 8173.0,829.0

2016,Snacks,The Bahamas, 9958.0,3210.0

2016,Snacks,The Gambia, 8452.0,700.0

2016,Snacks,Togo, 9877.0,462.0

2016,Snacks,Tonga, 7887.0,383.0

2016,Snacks,Trinidad and Tobago, 4652.0,4652.0

2016,Snacks,Tunisia , 9642.0,37.0

2016,Snacks,Turkey, 8693.0,475.0

2016,Snacks,Turkmenistan, 8771.0,2536.0

2016,Snacks,Tuvalu, 8278.0,1914.0

2016,Snacks,Uganda, 9720.0,2801.0

2016,Snacks,Ukraine, 5122.0,1968.0

2016,Snacks,United Arab Emirates, 7407.0,1292.0

2016,Snacks,United Kingdom, 8217.0,159.0

2016,Snacks,United States of America, 6247.0,1778.0

2016,Snacks,Uzbekistan, 8030.0,2758.0

2016,Snacks,Vanuatu, 9666.0,6921.0

2016,Snacks,Vatican City, 9894.0,686.0

2016,Snacks,Vietnam, 8727.0,410.0

2016,Snacks,Yemen, 9747.0,1264.0

2016,Snacks,Zambia, 9604.0,40.0

2016,Snacks,Zimbabwe, 1105.0,567.0

PS D:\For\_hadoop\Assignment\_Group\_150\Assignment> hadoop fs -cat /MapReduce\_unitsSold/part-r-00005

2021-09-05 22:44:21,864 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

2017,Snacks,Afghanistan, 7985.0,16.0

2017,Snacks,Albania, 7281.0,257.0

2017,Snacks,Algeria, 9869.0,1546.0

2017,Snacks,Andorra, 9702.0,665.0

2017,Snacks,Angola, 5788.0,1904.0

2017,Snacks,Antigua and Barbuda , 9213.0,305.0

2017,Snacks,Armenia, 9002.0,70.0

2017,Snacks,Australia, 9223.0,2393.0

2017,Snacks,Austria, 7835.0,2594.0

2017,Snacks,Azerbaijan, 9359.0,2380.0

2017,Snacks,Bahrain, 7536.0,162.0

2017,Snacks,Bangladesh, 8063.0,7070.0

2017,Snacks,Barbados, 7652.0,2090.0

2017,Snacks,Belarus, 9672.0,1308.0

2017,Snacks,Belgium, 7879.0,1049.0

2017,Snacks,Belize, 8220.0,1431.0

2017,Snacks,Benin, 9437.0,665.0

2017,Snacks,Bhutan, 8046.0,2050.0

2017,Snacks,Bosnia and Herzegovina, 7587.0,3648.0

2017,Snacks,Botswana, 7060.0,2444.0

2017,Snacks,Brunei, 8893.0,2209.0

2017,Snacks,Bulgaria, 8975.0,5090.0

2017,Snacks,Burkina Faso, 9512.0,84.0

2017,Snacks,Burundi, 8563.0,97.0

2017,Snacks,Cambodia, 9886.0,400.0

2017,Snacks,Cameroon, 7573.0,199.0

2017,Snacks,Canada, 7546.0,3373.0

2017,Snacks,Cape Verde, 7468.0,3968.0

2017,Snacks,Central African Republic, 9778.0,4536.0

2017,Snacks,Chad, 9662.0,624.0

2017,Snacks,China, 9421.0,2781.0

2017,Snacks,Comoros, 9516.0,2975.0

2017,Snacks,Costa Rica, 9886.0,1138.0

2017,Snacks,Cote d'Ivoire, 9475.0,1138.0

2017,Snacks,Croatia, 9791.0,2437.0

2017,Snacks,Cuba, 9723.0,1522.0

2017,Snacks,Cyprus, 7267.0,3679.0

2017,Snacks,Czech Republic, 8101.0,757.0

2017,Snacks,Democratic Republic of the Congo, 9662.0,3546.0

2017,Snacks,Denmark, 7720.0,216.0

2017,Snacks,Djibouti, 9883.0,468.0

2017,Snacks,Dominica, 8645.0,162.0

2017,Snacks,Dominican Republic, 8074.0,706.0

2017,Snacks,East Timor, 9196.0,1604.0

2017,Snacks,Egypt, 9870.0,689.0

2017,Snacks,El Salvador, 8896.0,2951.0

2017,Snacks,Equatorial Guinea, 8114.0,322.0

2017,Snacks,Eritrea, 5472.0,1168.0

2017,Snacks,Estonia, 9226.0,319.0

2017,Snacks,Ethiopia, 9635.0,1546.0

2017,Snacks,Federated States of Micronesia, 9910.0,2261.0

2017,Snacks,Fiji, 5750.0,873.0

2017,Snacks,Finland, 8920.0,172.0

2017,Snacks,France, 9897.0,1720.0

2017,Snacks,Gabon, 9488.0,43.0

2017,Snacks,Georgia, 9869.0,1155.0

2017,Snacks,Germany, 7941.0,454.0

2017,Snacks,Ghana, 3359.0,3230.0

2017,Snacks,Greece, 9754.0,43.0

2017,Snacks,Greenland, 9767.0,1049.0

2017,Snacks,Grenada, 3083.0,692.0

2017,Snacks,Guatemala, 7641.0,1230.0

2017,Snacks,Guinea, 8631.0,43.0

2017,Snacks,Guinea-Bissau, 9767.0,1958.0

2017,Snacks,Haiti, 8298.0,1947.0

2017,Snacks,Honduras, 7757.0,968.0

2017,Snacks,Hungary, 9767.0,1125.0

2017,Snacks,Iceland, 9900.0,1257.0

2017,Snacks,India, 6778.0,6778.0

2017,Snacks,Indonesia, 8019.0,417.0

2017,Snacks,Iran, 7243.0,2121.0

2017,Snacks,Iraq, 9318.0,32.0

2017,Snacks,Ireland, 4730.0,148.0

2017,Snacks,Israel, 9332.0,424.0

2017,Snacks,Italy, 6526.0,281.0

2017,Snacks,Jamaica, 8019.0,1407.0

2017,Snacks,Japan, 8971.0,560.0

2017,Snacks,Jordan, 9580.0,165.0

2017,Snacks,Kazakhstan, 7468.0,124.0

2017,Snacks,Kenya, 9315.0,424.0

2017,Snacks,Kiribati, 6583.0,3822.0

2017,Snacks,Kosovo, 3505.0,560.0

2017,Snacks,Kuwait, 5580.0,5580.0

2017,Snacks,Kyrgyzstan, 8022.0,944.0

2017,Snacks,Laos, 7482.0,652.0

2017,Snacks,Latvia, 9345.0,148.0

2017,Snacks,Lebanon, 9597.0,441.0

2017,Snacks,Lesotho, 7781.0,3230.0

2017,Snacks,Liberia, 8910.0,8325.0

2017,Snacks,Libya, 9042.0,1682.0

2017,Snacks,Liechtenstein, 7771.0,1696.0

2017,Snacks,Lithuania, 7944.0,4590.0

2017,Snacks,Luxembourg, 6924.0,284.0

2017,Snacks,Macedonia, 9842.0,2369.0

2017,Snacks,Madagascar, 6556.0,3346.0

2017,Snacks,Malawi, 9186.0,5.0

2017,Snacks,Malaysia, 9791.0,7046.0

2017,Snacks,Maldives, 9965.0,3016.0

2017,Snacks,Mali, 9594.0,108.0

2017,Snacks,Malta, 9583.0,2063.0

2017,Snacks,Marshall Islands, 8539.0,890.0

2017,Snacks,Mauritania, 8179.0,151.0

2017,Snacks,Mauritius , 8328.0,1114.0

2017,Snacks,Mexico, 6570.0,614.0

2017,Snacks,Moldova , 9172.0,1917.0

2017,Snacks,Monaco, 8471.0,108.0

2017,Snacks,Mongolia, 9104.0,798.0

2017,Snacks,Montenegro, 8196.0,257.0

2017,Snacks,Morocco, 9699.0,19.0

2017,Snacks,Mozambique, 8750.0,822.0

2017,Snacks,Myanmar, 9134.0,4784.0

2017,Snacks,Namibia, 9288.0,3451.0

2017,Snacks,Nauru, 7652.0,43.0

2017,Snacks,Nepal, 9556.0,2318.0

2017,Snacks,Netherlands, 7335.0,1788.0

2017,Snacks,New Zealand, 9648.0,162.0

2017,Snacks,Nicaragua, 8458.0,3451.0

2017,Snacks,Niger, 6475.0,1917.0

2017,Snacks,Nigeria, 6369.0,2869.0

2017,Snacks,North Korea, 8196.0,2723.0

2017,Snacks,Norway, 4298.0,94.0

2017,Snacks,Oman, 9318.0,706.0

2017,Snacks,Pakistan, 9686.0,1244.0

2017,Snacks,Palau, 9332.0,1298.0

2017,Snacks,Panama, 9829.0,2591.0

2017,Snacks,Papua New Guinea, 9186.0,454.0

2017,Snacks,Philippines, 6594.0,213.0

2017,Snacks,Poland, 7322.0,97.0

2017,Snacks,Portugal, 9237.0,546.0

2017,Snacks,Qatar, 9451.0,2226.0

2017,Snacks,Republic of the Congo, 8131.0,3413.0

2017,Snacks,Romania, 9965.0,1192.0

2017,Snacks,Russia, 7835.0,1206.0

2017,Snacks,Rwanda, 7906.0,138.0

2017,Snacks,Saint Kitts and Nevis , 8720.0,108.0

2017,Snacks,Saint Lucia, 8315.0,386.0

2017,Snacks,Saint Vincent and the Grenadines, 9526.0,3175.0

2017,Snacks,Samoa , 9329.0,1536.0

2017,Snacks,San Marino, 8284.0,2199.0

2017,Snacks,Sao Tome and Principe, 9686.0,2897.0

2017,Snacks,Saudi Arabia, 4706.0,1785.0

2017,Snacks,Senegal, 8706.0,914.0

2017,Snacks,Serbia, 8682.0,1209.0

2017,Snacks,Seychelles , 8550.0,373.0

2017,Snacks,Sierra Leone, 9832.0,4985.0

2017,Snacks,Singapore, 9094.0,451.0

2017,Snacks,Slovakia, 7179.0,508.0

2017,Snacks,Slovenia, 9264.0,4417.0

2017,Snacks,Solomon Islands, 9726.0,570.0

2017,Snacks,Somalia, 8604.0,1349.0

2017,Snacks,South Africa, 9237.0,1379.0

2017,Snacks,South Korea, 9686.0,2856.0

2017,Snacks,South Sudan, 9369.0,2475.0

2017,Snacks,Spain, 7968.0,1049.0

2017,Snacks,Sri Lanka, 9342.0,2448.0

2017,Snacks,Sudan, 9223.0,5074.0

2017,Snacks,Swaziland, 9910.0,6740.0

2017,Snacks,Sweden, 4947.0,1192.0

2017,Snacks,Switzerland, 7982.0,7982.0

2017,Snacks,Syria, 8152.0,1788.0

2017,Snacks,Taiwan, 8642.0,189.0

2017,Snacks,Tajikistan, 9499.0,1430.0

2017,Snacks,Tanzania, 6611.0,1876.0

2017,Snacks,Thailand, 8669.0,1325.0

2017,Snacks,The Bahamas, 8801.0,46.0

2017,Snacks,The Gambia, 9767.0,305.0

2017,Snacks,Togo, 9689.0,362.0

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2017,Snacks,Trinidad and Tobago, 9540.0,5131.0

2017,Snacks,Tunisia , 9818.0,373.0

2017,Snacks,Turkey, 6502.0,1904.0

2017,Snacks,Turkmenistan, 9662.0,890.0

2017,Snacks,Tuvalu, 6849.0,1111.0

2017,Snacks,Uganda, 9791.0,376.0

2017,Snacks,Ukraine, 9631.0,1880.0

2017,Snacks,United Arab Emirates, 8169.0,359.0

2017,Snacks,United Kingdom, 9645.0,1179.0

2017,Snacks,United States of America, 9618.0,468.0

2017,Snacks,Uzbekistan, 5077.0,2261.0

2017,Snacks,Vanuatu, 9053.0,1975.0

2017,Snacks,Vatican City, 8655.0,1577.0

2017,Snacks,Vietnam, 9618.0,1414.0

2017,Snacks,Yemen, 8590.0,1760.0

2017,Snacks,Zambia, 6186.0,1883.0

2017,Snacks,Zimbabwe, 8944.0,6873.0

PS D:\For\_hadoop\Assignment\_Group\_150\Assignment> hadoop fs -cat /MapReduce\_unitsSold/part-r-00006

2021-09-05 22:44:26,815 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

2018,Snacks,Afghanistan, 9403.0,1899.0

2018,Snacks,Albania, 7937.0,5995.0

2018,Snacks,Algeria, 7314.0,1913.0

2018,Snacks,Andorra, 7661.0,1515.0

2018,Snacks,Angola, 7233.0,2505.0

2018,Snacks,Antigua and Barbuda , 9838.0,1372.0

2018,Snacks,Armenia, 3631.0,566.0

2018,Snacks,Australia, 8580.0,8291.0

2018,Snacks,Austria, 9311.0,2522.0

2018,Snacks,Azerbaijan, 9535.0,934.0

2018,Snacks,Bahrain, 7985.0,512.0

2018,Snacks,Bangladesh, 8369.0,1450.0

2018,Snacks,Barbados, 2002.0,2002.0

2018,Snacks,Belarus, 4406.0,287.0

2018,Snacks,Belgium, 7750.0,100.0

2018,Snacks,Belize, 9519.0,2730.0

2018,Snacks,Benin, 9308.0,4301.0

2018,Snacks,Bhutan, 9770.0,2002.0

2018,Snacks,Bosnia and Herzegovina, 9835.0,2916.0

2018,Snacks,Botswana, 6971.0,2916.0

2018,Snacks,Brunei, 6325.0,1437.0

2018,Snacks,Bulgaria, 274.0,274.0

2018,Snacks,Burkina Faso, 8083.0,2811.0

2018,Snacks,Burundi, 9702.0,4141.0

2018,Snacks,Cambodia, 9638.0,576.0

2018,Snacks,Cameroon, 8624.0,2757.0

2018,Snacks,Canada, 9430.0,233.0

2018,Snacks,Cape Verde, 8597.0,668.0

2018,Snacks,Central African Republic, 9165.0,842.0

2018,Snacks,Chad, 9556.0,695.0

2018,Snacks,China, 9522.0,1712.0

2018,Snacks,Comoros, 9002.0,944.0

2018,Snacks,Costa Rica, 9403.0,3723.0

2018,Snacks,Cote d'Ivoire, 9386.0,1529.0

2018,Snacks,Croatia, 8185.0,2583.0

2018,Snacks,Cuba, 9971.0,4250.0

2018,Snacks,Cyprus, 9427.0,685.0

2018,Snacks,Czech Republic, 9954.0,3325.0

2018,Snacks,Democratic Republic of the Congo, 9733.0,4566.0

2018,Snacks,Denmark, 9165.0,2760.0

2018,Snacks,Djibouti, 8991.0,219.0

2018,Snacks,Dominica, 7723.0,2032.0

2018,Snacks,Dominican Republic, 8964.0,1331.0

2018,Snacks,East Timor, 9821.0,1386.0

2018,Snacks,Egypt, 6032.0,2018.0

2018,Snacks,El Salvador, 6192.0,1039.0

2018,Snacks,Equatorial Guinea, 8556.0,393.0

2018,Snacks,Eritrea, 9532.0,1080.0

2018,Snacks,Estonia, 8713.0,4291.0

2018,Snacks,Ethiopia, 9505.0,1607.0

2018,Snacks,Federated States of Micronesia, 9403.0,3576.0

2018,Snacks,Fiji, 7910.0,5678.0

2018,Snacks,Finland, 9151.0,2056.0

2018,Snacks,France, 9984.0,1212.0

2018,Snacks,Gabon, 7039.0,1502.0

2018,Snacks,Georgia, 9957.0,246.0

2018,Snacks,Germany, 9811.0,1328.0

2018,Snacks,Ghana, 6352.0,774.0

2018,Snacks,Greece, 4542.0,498.0

2018,Snacks,Greenland, 9019.0,801.0

2018,Snacks,Grenada, 9889.0,2121.0

2018,Snacks,Guatemala, 7831.0,498.0

2018,Snacks,Guinea, 7988.0,1607.0

2018,Snacks,Guinea-Bissau, 8161.0,1491.0

2018,Snacks,Haiti, 9202.0,866.0

2018,Snacks,Honduras, 9930.0,2267.0

2018,Snacks,Hungary, 8964.0,1491.0

2018,Snacks,Iceland, 9811.0,1168.0

2018,Snacks,India, 8821.0,4617.0

2018,Snacks,Indonesia, 6998.0,328.0

2018,Snacks,Iran, 7723.0,1913.0

2018,Snacks,Iraq, 3563.0,103.0

2018,Snacks,Ireland, 6471.0,60.0

2018,Snacks,Israel, 9492.0,352.0

2018,Snacks,Italy, 8835.0,1580.0

2018,Snacks,Jamaica, 7552.0,2151.0

2018,Snacks,Japan, 9202.0,9202.0

2018,Snacks,Jordan, 7988.0,790.0

2018,Snacks,Kazakhstan, 9906.0,36.0

2018,Snacks,Kenya, 9916.0,1168.0

2018,Snacks,Kiribati, 8566.0,2570.0

2018,Snacks,Kosovo, 9492.0,631.0

2018,Snacks,Kuwait, 9216.0,49.0

2018,Snacks,Kyrgyzstan, 8478.0,839.0

2018,Snacks,Laos, 9760.0,1542.0

2018,Snacks,Latvia, 8967.0,1872.0

2018,Snacks,Lebanon, 5199.0,1845.0

2018,Snacks,Lesotho, 8808.0,2427.0

2018,Snacks,Liberia, 6749.0,498.0

2018,Snacks,Libya, 9233.0,165.0

2018,Snacks,Liechtenstein, 9784.0,457.0

2018,Snacks,Lithuania, 8280.0,2165.0

2018,Snacks,Luxembourg, 9522.0,1304.0

2018,Snacks,Macedonia, 7552.0,474.0

2018,Snacks,Madagascar, 8369.0,777.0

2018,Snacks,Malawi, 9611.0,1144.0

2018,Snacks,Malaysia, 9573.0,2070.0

2018,Snacks,Maldives, 8359.0,1835.0

2018,Snacks,Mali, 6005.0,2240.0

2018,Snacks,Malta, 8515.0,1580.0

2018,Snacks,Marshall Islands, 9413.0,233.0

2018,Snacks,Mauritania, 9083.0,1025.0

2018,Snacks,Mauritius , 9492.0,1144.0

2018,Snacks,Mexico, 5678.0,815.0

2018,Snacks,Moldova , 9917.0,985.0

2018,Snacks,Monaco, 8808.0,195.0

2018,Snacks,Mongolia, 8053.0,314.0

2018,Snacks,Montenegro, 6957.0,1685.0

2018,Snacks,Morocco, 8821.0,338.0

2018,Snacks,Mozambique, 9216.0,5467.0

2018,Snacks,Myanmar, 9879.0,2375.0

2018,Snacks,Namibia, 8066.0,328.0

2018,Snacks,Nauru, 7988.0,219.0

2018,Snacks,Nepal, 9059.0,1964.0

2018,Snacks,Netherlands, 9348.0,695.0

2018,Snacks,New Zealand, 7736.0,192.0

2018,Snacks,Nicaragua, 8386.0,896.0

2018,Snacks,Niger, 9467.0,430.0

2018,Snacks,Nigeria, 8927.0,1158.0

2018,Snacks,North Korea, 7352.0,298.0

2018,Snacks,Norway, 8342.0,869.0

2018,Snacks,Oman, 9495.0,4076.0

2018,Snacks,Pakistan, 9219.0,22.0

2018,Snacks,Palau, 8978.0,631.0

2018,Snacks,Panama, 9321.0,2573.0

2018,Snacks,Papua New Guinea, 9505.0,236.0

2018,Snacks,Philippines, 9281.0,1529.0

2018,Snacks,Poland, 8886.0,1991.0

2018,Snacks,Portugal, 7801.0,328.0

2018,Snacks,Qatar, 8253.0,2137.0

2018,Snacks,Republic of the Congo, 8597.0,2464.0

2018,Snacks,Romania, 7131.0,1104.0

2018,Snacks,Russia, 9471.0,155.0

2018,Snacks,Rwanda, 8910.0,4607.0

2018,Snacks,Saint Kitts and Nevis , 8661.0,2546.0

2018,Snacks,Saint Lucia, 6444.0,2808.0

2018,Snacks,Saint Vincent and the Grenadines, 9876.0,1304.0

2018,Snacks,Samoa , 9229.0,1301.0

2018,Snacks,San Marino, 5818.0,4182.0

2018,Snacks,Sao Tome and Principe, 8899.0,328.0

2018,Snacks,Saudi Arabia, 7512.0,604.0

2018,Snacks,Senegal, 9032.0,5.0

2018,Snacks,Serbia, 6257.0,2508.0

2018,Snacks,Seychelles , 9889.0,3059.0

2018,Snacks,Sierra Leone, 9324.0,417.0

2018,Snacks,Singapore, 8042.0,1661.0

2018,Snacks,Slovakia, 8478.0,668.0

2018,Snacks,Slovenia, 8580.0,563.0

2018,Snacks,Solomon Islands, 9668.0,1331.0

2018,Snacks,Somalia, 8209.0,2094.0

2018,Snacks,South Africa, 9148.0,447.0

2018,Snacks,South Korea, 9348.0,695.0

2018,Snacks,South Sudan, 8478.0,1263.0

2018,Snacks,Spain, 9324.0,1355.0

2018,Snacks,Sri Lanka, 6083.0,3852.0

2018,Snacks,Sudan, 7937.0,25.0

2018,Snacks,Swaziland, 7366.0,417.0

2018,Snacks,Sweden, 8624.0,1209.0

2018,Snacks,Switzerland, 6246.0,131.0

2018,Snacks,Syria, 7804.0,1553.0

2018,Snacks,Taiwan, 7236.0,260.0

2018,Snacks,Tajikistan, 9576.0,933.0

2018,Snacks,Tanzania, 8158.0,3206.0

2018,Snacks,Thailand, 8610.0,1077.0

2018,Snacks,The Bahamas, 8583.0,6906.0

2018,Snacks,The Gambia, 9549.0,246.0

2018,Snacks,Togo, 8597.0,668.0

2018,Snacks,Tonga, 5083.0,4410.0

2018,Snacks,Trinidad and Tobago, 6151.0,5732.0

2018,Snacks,Tunisia , 9352.0,6141.0

2018,Snacks,Turkey, 8474.0,882.0

2018,Snacks,Turkmenistan, 9692.0,87.0

2018,Snacks,Tuvalu, 9216.0,1318.0

2018,Snacks,Uganda, 7352.0,144.0

2018,Snacks,Ukraine, 8450.0,1107.0

2018,Snacks,United Arab Emirates, 7485.0,430.0

2018,Snacks,United Kingdom, 6917.0,5559.0

2018,Snacks,United States of America, 6205.0,628.0

2018,Snacks,Uzbekistan, 9971.0,3270.0

2018,Snacks,Vanuatu, 7696.0,63.0

2018,Snacks,Vatican City, 8158.0,260.0

2018,Snacks,Vietnam, 9005.0,628.0

2018,Snacks,Yemen, 9032.0,461.0

2018,Snacks,Zambia, 7750.0,406.0

2018,Snacks,Zimbabwe, 8597.0,390.0

PS D:\For\_hadoop\Assignment\_Group\_150\Assignment> hadoop fs -cat /MapReduce\_unitsSold/part-r-00007

2021-09-05 22:44:31,555 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

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2019,Snacks,Algeria, 9049.0,2644.0

2019,Snacks,Andorra, 8971.0,8971.0

2019,Snacks,Angola, 7440.0,3130.0

2019,Snacks,Antigua and Barbuda , 8072.0,7198.0

2019,Snacks,Armenia, 7396.0,83.0

2019,Snacks,Australia, 5705.0,2671.0

2019,Snacks,Austria, 8549.0,450.0

2019,Snacks,Azerbaijan, 8338.0,1637.0

2019,Snacks,Bahrain, 9709.0,1083.0

2019,Snacks,Bangladesh, 8470.0,412.0

2019,Snacks,Barbados, 6542.0,2627.0

2019,Snacks,Belarus, 8362.0,872.0

2019,Snacks,Belgium, 9923.0,1440.0

2019,Snacks,Belize, 7199.0,1957.0

2019,Snacks,Benin, 9089.0,1321.0

2019,Snacks,Bhutan, 8589.0,1375.0

2019,Snacks,Bosnia and Herzegovina, 8814.0,580.0

2019,Snacks,Botswana, 8518.0,1729.0

2019,Snacks,Brunei, 8851.0,2021.0

2019,Snacks,Bulgaria, 7824.0,4637.0

2019,Snacks,Burkina Faso, 6725.0,1029.0

2019,Snacks,Burundi, 9661.0,1426.0

2019,Snacks,Cambodia, 9933.0,222.0

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2019,Snacks,Canada, 9471.0,2671.0

2019,Snacks,Cape Verde, 4345.0,1324.0

2019,Snacks,Central African Republic, 8916.0,4654.0

2019,Snacks,Chad, 8640.0,8640.0

2019,Snacks,China, 8719.0,5100.0

2019,Snacks,Comoros, 7691.0,3501.0

2019,Snacks,Costa Rica, 9154.0,412.0

2019,Snacks,Cote d'Ivoire, 9079.0,171.0

2019,Snacks,Croatia, 8800.0,277.0

2019,Snacks,Cuba, 9841.0,661.0

2019,Snacks,Cyprus, 9617.0,3093.0

2019,Snacks,Czech Republic, 9062.0,409.0

2019,Snacks,Democratic Republic of the Congo, 5181.0,583.0

2019,Snacks,Denmark, 9065.0,5270.0

2019,Snacks,Djibouti, 6991.0,2787.0

2019,Snacks,Dominica, 9141.0,2062.0

2019,Snacks,Dominican Republic, 6515.0,1202.0

2019,Snacks,East Timor, 9909.0,3358.0

2019,Snacks,Egypt, 6120.0,583.0

2019,Snacks,El Salvador, 9947.0,1770.0

2019,Snacks,Equatorial Guinea, 9052.0,977.0

2019,Snacks,Eritrea, 7501.0,158.0

2019,Snacks,Estonia, 9882.0,566.0

2019,Snacks,Ethiopia, 8494.0,1.0

2019,Snacks,Federated States of Micronesia, 9882.0,2685.0

2019,Snacks,Fiji, 9168.0,1824.0

2019,Snacks,Finland, 6960.0,6406.0

2019,Snacks,France, 9052.0,1243.0

2019,Snacks,Gabon, 6644.0,6644.0

2019,Snacks,Georgia, 8335.0,134.0

2019,Snacks,Germany, 9576.0,290.0

2019,Snacks,Ghana, 8760.0,2249.0

2019,Snacks,Greece, 9141.0,1243.0

2019,Snacks,Greenland, 9909.0,3634.0

2019,Snacks,Grenada, 9831.0,2192.0

2019,Snacks,Guatemala, 9695.0,794.0

2019,Snacks,Guinea, 9606.0,675.0

2019,Snacks,Guinea-Bissau, 9460.0,3593.0

2019,Snacks,Haiti, 7437.0,1072.0

2019,Snacks,Honduras, 9682.0,107.0

2019,Snacks,Hungary, 8440.0,2630.0

2019,Snacks,Iceland, 9314.0,1215.0

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2019,Snacks,Indonesia, 9844.0,1202.0

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2019,Snacks,Iraq, 9566.0,15.0

2019,Snacks,Ireland, 6661.0,2368.0

2019,Snacks,Israel, 6674.0,253.0

2019,Snacks,Italy, 9141.0,9141.0

2019,Snacks,Jamaica, 8562.0,120.0

2019,Snacks,Japan, 8824.0,3158.0

2019,Snacks,Jordan, 8164.0,396.0

2019,Snacks,Kazakhstan, 9233.0,107.0

2019,Snacks,Kenya, 3463.0,1375.0

2019,Snacks,Kiribati, 9062.0,2263.0

2019,Snacks,Kosovo, 9858.0,1640.0

2019,Snacks,Kuwait, 6236.0,6236.0

2019,Snacks,Kyrgyzstan, 9817.0,4930.0

2019,Snacks,Laos, 9352.0,345.0

2019,Snacks,Latvia, 8164.0,2763.0

2019,Snacks,Lebanon, 9171.0,1096.0

2019,Snacks,Lesotho, 8164.0,426.0

2019,Snacks,Liberia, 8851.0,1797.0

2019,Snacks,Libya, 5943.0,501.0

2019,Snacks,Liechtenstein, 7872.0,4164.0

2019,Snacks,Lithuania, 9579.0,1232.0

2019,Snacks,Luxembourg, 6617.0,1086.0

2019,Snacks,Macedonia, 9157.0,385.0

2019,Snacks,Madagascar, 9828.0,3198.0

2019,Snacks,Malawi, 9947.0,1375.0

2019,Snacks,Malaysia, 8971.0,872.0

2019,Snacks,Maldives, 9209.0,2314.0

2019,Snacks,Mali, 8998.0,794.0

2019,Snacks,Malta, 9933.0,777.0

2019,Snacks,Marshall Islands, 9709.0,1851.0

2019,Snacks,Mauritania, 8457.0,937.0

2019,Snacks,Mauritius , 8311.0,1086.0

2019,Snacks,Mexico, 7940.0,845.0

2019,Snacks,Moldova , 1906.0,1086.0

2019,Snacks,Monaco, 96.0,96.0

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2019,Snacks,Montenegro, 4004.0,4004.0

2019,Snacks,Morocco, 9287.0,3277.0

2019,Snacks,Mozambique, 9246.0,910.0

2019,Snacks,Myanmar, 8651.0,464.0

2019,Snacks,Namibia, 8851.0,794.0

2019,Snacks,Nauru, 9841.0,2392.0

2019,Snacks,Nepal, 9338.0,872.0

2019,Snacks,Netherlands, 5246.0,3144.0

2019,Snacks,New Zealand, 7783.0,528.0

2019,Snacks,Nicaragua, 9933.0,1610.0

2019,Snacks,Niger, 8865.0,1362.0

2019,Snacks,Nigeria, 8270.0,1175.0

2019,Snacks,North Korea, 9831.0,2984.0

2019,Snacks,Norway, 9409.0,2987.0

2019,Snacks,Oman, 7583.0,664.0

2019,Snacks,Pakistan, 8559.0,1072.0

2019,Snacks,Palau, 8335.0,28.0

2019,Snacks,Panama, 5654.0,2562.0

2019,Snacks,Papua New Guinea, 8613.0,131.0

2019,Snacks,Philippines, 9352.0,491.0

2019,Snacks,Poland, 9246.0,2971.0

2019,Snacks,Portugal, 2430.0,623.0

2019,Snacks,Qatar, 7610.0,661.0

2019,Snacks,Republic of the Congo, 8787.0,569.0

2019,Snacks,Romania, 7981.0,6287.0

2019,Snacks,Russia, 9382.0,226.0

2019,Snacks,Rwanda, 8137.0,226.0

2019,Snacks,Saint Kitts and Nevis , 9801.0,899.0

2019,Snacks,Saint Lucia, 9654.0,783.0

2019,Snacks,Saint Vincent and the Grenadines, 8695.0,501.0

2019,Snacks,Samoa , 9695.0,964.0

2019,Snacks,San Marino, 7542.0,198.0

2019,Snacks,Sao Tome and Principe, 3818.0,2984.0

2019,Snacks,Saudi Arabia, 8443.0,1743.0

2019,Snacks,Senegal, 9817.0,2154.0

2019,Snacks,Serbia, 8375.0,3688.0

2019,Snacks,Seychelles , 9777.0,1848.0

2019,Snacks,Sierra Leone, 3804.0,2576.0

2019,Snacks,Singapore, 9936.0,3515.0

2019,Snacks,Slovakia, 9777.0,461.0

2019,Snacks,Slovenia, 8957.0,314.0

2019,Snacks,Solomon Islands, 8351.0,1957.0

2019,Snacks,Somalia, 8256.0,4402.0

2019,Snacks,South Africa, 8576.0,1032.0

2019,Snacks,South Korea, 8824.0,93.0

2019,Snacks,South Sudan, 9817.0,5773.0

2019,Snacks,Spain, 9195.0,447.0

2019,Snacks,Sri Lanka, 8375.0,712.0

2019,Snacks,Sudan, 9076.0,2552.0

2019,Snacks,Swaziland, 9603.0,1297.0

2019,Snacks,Sweden, 8246.0,3501.0

2019,Snacks,Switzerland, 9487.0,1838.0

2019,Snacks,Syria, 9698.0,52.0

2019,Snacks,Taiwan, 8229.0,756.0

2019,Snacks,Tajikistan, 6726.0,2127.0

2019,Snacks,Tanzania, 6753.0,348.0

2019,Snacks,Thailand, 8627.0,2086.0

2019,Snacks,The Bahamas, 9008.0,437.0

2019,Snacks,The Gambia, 8232.0,1970.0

2019,Snacks,Togo, 9352.0,4199.0

2019,Snacks,Tonga, 7083.0,396.0

2019,Snacks,Trinidad and Tobago, 9392.0,651.0

2019,Snacks,Tunisia , 9801.0,1029.0

2019,Snacks,Turkey, 9525.0,634.0

2019,Snacks,Turkmenistan, 9474.0,3807.0

2019,Snacks,Tuvalu, 6542.0,409.0

2019,Snacks,Uganda, 9076.0,1981.0

2019,Snacks,Ukraine, 7399.0,1267.0

2019,Snacks,United Arab Emirates, 8535.0,212.0

2019,Snacks,United Kingdom, 5719.0,317.0

2019,Snacks,Uzbekistan, 6158.0,290.0

2019,Snacks,Vanuatu, 7872.0,658.0

2019,Snacks,Vatican City, 9222.0,3766.0

2019,Snacks,Vietnam, 8787.0,3491.0

2019,Snacks,Yemen, 6736.0,916.0

2019,Snacks,Zambia, 7661.0,4756.0

2019,Snacks,Zimbabwe, 9882.0,171.0

PS D:\For\_hadoop\Assignment\_Group\_150\Assignment> hadoop fs -cat /MapReduce\_unitsSold/part-r-00008

2021-09-05 22:44:38,671 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

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2020,Snacks,Algeria, 8246.0,2290.0

2020,Snacks,Andorra, 9001.0,3470.0

2020,Snacks,Angola, 6113.0,2487.0

2020,Snacks,Antigua and Barbuda , 6626.0,45.0

2020,Snacks,Armenia, 7178.0,4841.0

2020,Snacks,Australia, 9661.0,1035.0

2020,Snacks,Austria, 7031.0,2198.0

2020,Snacks,Azerbaijan, 9677.0,2817.0

2020,Snacks,Bahrain, 7429.0,1433.0

2020,Snacks,Bangladesh, 9739.0,1433.0

2020,Snacks,Barbados, 9623.0,497.0

2020,Snacks,Belarus, 6756.0,3545.0

2020,Snacks,Belgium, 8276.0,3045.0

2020,Snacks,Belize, 9885.0,2977.0

2020,Snacks,Benin, 8446.0,535.0

2020,Snacks,Bhutan, 9463.0,443.0

2020,Snacks,Bosnia and Herzegovina, 7881.0,1076.0

2020,Snacks,Botswana, 9120.0,4127.0

2020,Snacks,Brunei, 8922.0,167.0

2020,Snacks,Bulgaria, 9382.0,4684.0

2020,Snacks,Burkina Faso, 7062.0,810.0

2020,Snacks,Burundi, 9017.0,1368.0

2020,Snacks,Cambodia, 9171.0,2531.0

2020,Snacks,Cameroon, 9674.0,797.0

2020,Snacks,Canada, 7004.0,3266.0

2020,Snacks,Cape Verde, 8579.0,96.0

2020,Snacks,Central African Republic, 9967.0,2157.0

2020,Snacks,Chad, 3150.0,259.0

2020,Snacks,China, 4752.0,2545.0

2020,Snacks,Comoros, 4521.0,2055.0

2020,Snacks,Costa Rica, 9361.0,1552.0

2020,Snacks,Croatia, 9385.0,1048.0

2020,Snacks,Cuba, 9769.0,1157.0

2020,Snacks,Cyprus, 6888.0,667.0

2020,Snacks,Czech Republic, 9252.0,215.0

2020,Snacks,Democratic Republic of the Congo, 6916.0,364.0

2020,Snacks,Denmark, 7164.0,511.0

2020,Snacks,Djibouti, 9269.0,467.0

2020,Snacks,Dominica, 9052.0,3667.0

2020,Snacks,Dominican Republic, 9361.0,599.0

2020,Snacks,East Timor, 8712.0,1473.0

2020,Snacks,Egypt, 9344.0,3813.0

2020,Snacks,El Salvador, 8382.0,3388.0

2020,Snacks,Equatorial Guinea, 6756.0,599.0

2020,Snacks,Eritrea, 4803.0,613.0

2020,Snacks,Estonia, 9504.0,1457.0

2020,Snacks,Ethiopia, 9239.0,2014.0

2020,Snacks,Federated States of Micronesia, 7579.0,2555.0

2020,Snacks,Fiji, 7562.0,1446.0

2020,Snacks,Finland, 8555.0,746.0

2020,Snacks,France, 8528.0,191.0

2020,Snacks,Gabon, 9093.0,1443.0

2020,Snacks,Georgia, 8422.0,919.0

2020,Snacks,Germany, 9634.0,1052.0

2020,Snacks,Ghana, 9504.0,483.0

2020,Snacks,Greece, 5593.0,3956.0

2020,Snacks,Greenland, 5211.0,1882.0

2020,Snacks,Grenada, 3626.0,337.0

2020,Snacks,Guatemala, 8633.0,440.0

2020,Snacks,Guinea, 8803.0,4936.0

2020,Snacks,Guinea-Bissau, 9796.0,3215.0

2020,Snacks,Haiti, 5028.0,4732.0

2020,Snacks,Honduras, 8749.0,1246.0

2020,Snacks,Hungary, 9915.0,470.0

2020,Snacks,Iceland, 9664.0,7402.0

2020,Snacks,India, 9453.0,1011.0

2020,Snacks,Indonesia, 9058.0,575.0

2020,Snacks,Iran, 9912.0,307.0

2020,Snacks,Iraq, 3402.0,2807.0

2020,Snacks,Ireland, 6967.0,905.0

2020,Snacks,Israel, 8647.0,1127.0

2020,Snacks,Italy, 4749.0,191.0

2020,Snacks,Jamaica, 6412.0,150.0

2020,Snacks,Japan, 9875.0,283.0

2020,Snacks,Jordan, 9753.0,7113.0

2020,Snacks,Kazakhstan, 8868.0,137.0

2020,Snacks,Kenya, 7708.0,2661.0

2020,Snacks,Kiribati, 8409.0,191.0

2020,Snacks,Kosovo, 8807.0,1392.0

2020,Snacks,Kuwait, 9477.0,1814.0

2020,Snacks,Kyrgyzstan, 9014.0,1222.0

2020,Snacks,Laos, 9164.0,1660.0

2020,Snacks,Latvia, 8909.0,732.0

2020,Snacks,Lebanon, 9596.0,4354.0

2020,Snacks,Lesotho, 8644.0,337.0

2020,Snacks,Liberia, 8803.0,2133.0

2020,Snacks,Libya, 8936.0,1392.0

2020,Snacks,Liechtenstein, 9228.0,2967.0

2020,Snacks,Lithuania, 9915.0,2236.0

2020,Snacks,Luxembourg, 5419.0,34.0

2020,Snacks,Macedonia, 8779.0,1555.0

2020,Snacks,Madagascar, 7389.0,7389.0

2020,Snacks,Malawi, 2514.0,2514.0

2020,Snacks,Malaysia, 9266.0,3310.0

2020,Snacks,Maldives, 9674.0,2065.0

2020,Snacks,Mali, 9028.0,1419.0

2020,Snacks,Malta, 1963.0,854.0

2020,Snacks,Marshall Islands, 9956.0,1314.0

2020,Snacks,Mauritania, 8633.0,181.0

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2020,Snacks,Mexico, 9239.0,3518.0

2020,Snacks,Moldova , 6664.0,678.0

2020,Snacks,Monaco, 8354.0,1246.0

2020,Snacks,Mongolia, 5514.0,113.0

2020,Snacks,Montenegro, 9701.0,4051.0

2020,Snacks,Morocco, 5025.0,691.0

2020,Snacks,Mozambique, 9334.0,1565.0

2020,Snacks,Myanmar, 9252.0,1484.0

2020,Snacks,Namibia, 9701.0,1259.0

2020,Snacks,Nauru, 9358.0,8000.0

2020,Snacks,Nepal, 8582.0,99.0

2020,Snacks,Netherlands, 6810.0,678.0

2020,Snacks,New Zealand, 9242.0,1154.0

2020,Snacks,Nicaragua, 6415.0,269.0

2020,Snacks,Niger, 6664.0,6415.0

2020,Snacks,Nigeria, 9304.0,1276.0

2020,Snacks,North Korea, 9861.0,681.0

2020,Snacks,Norway, 9439.0,443.0

2020,Snacks,Oman, 9466.0,470.0

2020,Snacks,Pakistan, 9160.0,429.0

2020,Snacks,Palau, 9096.0,718.0

2020,Snacks,Panama, 9599.0,443.0

2020,Snacks,Papua New Guinea, 9929.0,6174.0

2020,Snacks,Philippines, 9705.0,4976.0

2020,Snacks,Poland, 8579.0,1130.0

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2020,Snacks,Qatar, 7072.0,868.0

2020,Snacks,Republic of the Congo, 7062.0,72.0

2020,Snacks,Romania, 9994.0,1776.0

2020,Snacks,Russia, 8419.0,810.0

2020,Snacks,Rwanda, 8739.0,3626.0

2020,Snacks,Saint Kitts and Nevis , 9028.0,1525.0

2020,Snacks,Saint Lucia, 9147.0,1787.0

2020,Snacks,Saint Vincent and the Grenadines, 6970.0,1262.0

2020,Snacks,Samoa , 9477.0,440.0

2020,Snacks,San Marino, 7164.0,1249.0

2020,Snacks,Sao Tome and Principe, 9466.0,1409.0

2020,Snacks,Saudi Arabia, 9861.0,1130.0

2020,Snacks,Senegal, 8725.0,678.0

2020,Snacks,Serbia, 9545.0,783.0

2020,Snacks,Seychelles , 9848.0,6082.0

2020,Snacks,Sierra Leone, 9861.0,2871.0

2020,Snacks,Singapore, 5079.0,215.0

2020,Snacks,Slovakia, 7762.0,4446.0

2020,Snacks,Slovenia, 9967.0,5398.0

2020,Snacks,Solomon Islands, 5477.0,45.0

2020,Snacks,Somalia, 8487.0,2252.0

2020,Snacks,South Africa, 9031.0,140.0

2020,Snacks,South Korea, 9875.0,429.0

2020,Snacks,South Sudan, 8330.0,3058.0

2020,Snacks,Spain, 9980.0,2171.0

2020,Snacks,Sri Lanka, 6361.0,3310.0

2020,Snacks,Sudan, 9807.0,375.0

2020,Snacks,Swaziland, 7075.0,388.0

2020,Snacks,Sweden, 8436.0,2025.0

2020,Snacks,Switzerland, 9688.0,681.0

2020,Snacks,Syria, 8736.0,388.0

2020,Snacks,Taiwan, 9674.0,2715.0

2020,Snacks,Tajikistan, 9677.0,7021.0

2020,Snacks,Tanzania, 8885.0,1470.0

2020,Snacks,Thailand, 9661.0,800.0

2020,Snacks,The Bahamas, 8422.0,2395.0

2020,Snacks,The Gambia, 5487.0,2950.0

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2020,Snacks,Trinidad and Tobago, 3188.0,402.0

2020,Snacks,Tunisia , 8035.0,3307.0

2020,Snacks,Turkey, 8168.0,1409.0

2020,Snacks,Turkmenistan, 6480.0,1208.0

2020,Snacks,Tuvalu, 9463.0,1814.0

2020,Snacks,Uganda, 9123.0,640.0

2020,Snacks,Ukraine, 8273.0,1473.0

2020,Snacks,United Arab Emirates, 9585.0,1262.0

2020,Snacks,United Kingdom, 6463.0,348.0

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2020,Snacks,Uzbekistan, 7562.0,89.0

2020,Snacks,Vanuatu, 9188.0,994.0

2020,Snacks,Vatican City, 8684.0,786.0

2020,Snacks,Vietnam, 5079.0,1460.0

2020,Snacks,Yemen, 7776.0,2504.0

2020,Snacks,Zambia, 8960.0,218.0

2020,Snacks,Zimbabwe, 7705.0,1630.0

PS D:\For\_hadoop\Assignment\_Group\_150\Assignment> hadoop fs -cat /MapReduce\_unitsSold/part-r-00009

2021-09-05 22:44:43,645 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

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2021,Snacks,Angola, 592.0,592.0

2021,Snacks,Antigua and Barbuda , 7725.0,7725.0

2021,Snacks,Armenia, 9745.0,419.0

2021,Snacks,Australia, 8874.0,6113.0

2021,Snacks,Austria, 6259.0,6259.0

2021,Snacks,Azerbaijan, 7327.0,7327.0

2021,Snacks,Bangladesh, 5347.0,3960.0

2021,Snacks,Barbados, 9534.0,2745.0

2021,Snacks,Belarus, 9442.0,9442.0

2021,Snacks,Belgium, 8187.0,6126.0

2021,Snacks,Belize, 9259.0,4106.0

2021,Snacks,Benin, 1409.0,1409.0

2021,Snacks,Bhutan, 2970.0,473.0

2021,Snacks,Bosnia and Herzegovina, 9718.0,2374.0

2021,Snacks,Botswana, 8902.0,1806.0

2021,Snacks,Brunei, 5480.0,5480.0

2021,Snacks,Bulgaria, 5279.0,2228.0

2021,Snacks,Burkina Faso, 4725.0,1266.0

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2021,Snacks,Cambodia, 3800.0,3800.0

2021,Snacks,Cameroon, 8902.0,5837.0

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2021,Snacks,Chad, 4858.0,2347.0

2021,Snacks,China, 6021.0,2970.0

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2021,Snacks,Czech Republic, 4146.0,4146.0

2021,Snacks,Democratic Republic of the Congo, 3735.0,3456.0

2021,Snacks,Djibouti, 8160.0,2759.0

2021,Snacks,Dominica, 9943.0,9943.0

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2021,Snacks,Eritrea, 9561.0,3854.0

2021,Snacks,Estonia, 684.0,684.0

2021,Snacks,Ethiopia, 6364.0,922.0

2021,Snacks,Federated States of Micronesia, 4687.0,4687.0

2021,Snacks,Fiji, 5796.0,5796.0

2021,Snacks,Finland, 6099.0,3578.0

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2021,Snacks,Guinea-Bissau, 5228.0,3432.0

2021,Snacks,Haiti, 7130.0,194.0

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2021,Snacks,Hungary, 8558.0,8558.0

2021,Snacks,Iceland, 7738.0,2851.0

2021,Snacks,India, 9919.0,3932.0

2021,Snacks,Indonesia, 9218.0,9218.0

2021,Snacks,Ireland, 8000.0,6483.0

2021,Snacks,Israel, 8688.0,500.0

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2021,Snacks,Kazakhstan, 8636.0,1701.0

2021,Snacks,Kenya, 6616.0,235.0

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2021,Snacks,Kosovo, 2017.0,2017.0

2021,Snacks,Kuwait, 3946.0,3946.0

2021,Snacks,Kyrgyzstan, 868.0,868.0

2021,Snacks,Latvia, 7432.0,5626.0

2021,Snacks,Lebanon, 5902.0,5068.0

2021,Snacks,Lesotho, 8820.0,3153.0

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2021,Snacks,Libya, 6470.0,619.0

2021,Snacks,Liechtenstein, 7990.0,2983.0

2021,Snacks,Lithuania, 6167.0,4225.0

2021,Snacks,Luxembourg, 1027.0,1027.0

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2021,Snacks,Mali, 8385.0,208.0

2021,Snacks,Malta, 7565.0,1449.0

2021,Snacks,Marshall Islands, 5677.0,116.0

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2021,Snacks,Mongolia, 4871.0,4871.0

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2021,Snacks,Morocco, 9364.0,7976.0

2021,Snacks,Mozambique, 6034.0,6034.0

2021,Snacks,Namibia, 8385.0,8385.0

2021,Snacks,Nauru, 6075.0,249.0

2021,Snacks,Nepal, 9031.0,973.0

2021,Snacks,Netherlands, 9626.0,6840.0

2021,Snacks,New Zealand, 8834.0,221.0

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2021,Snacks,Niger, 7395.0,6296.0

2021,Snacks,Nigeria, 8082.0,313.0

2021,Snacks,North Korea, 9878.0,38.0

2021,Snacks,Norway, 3643.0,1847.0

2021,Snacks,Oman, 9099.0,1715.0

2021,Snacks,Pakistan, 7684.0,5187.0

2021,Snacks,Palau, 8293.0,5517.0

2021,Snacks,Panama, 6854.0,313.0

2021,Snacks,Papua New Guinea, 7303.0,5915.0

2021,Snacks,Philippines, 5426.0,1925.0

2021,Snacks,Poland, 6708.0,1820.0

2021,Snacks,Portugal, 9626.0,854.0

2021,Snacks,Qatar, 9085.0,6429.0

2021,Snacks,Republic of the Congo, 7776.0,7776.0

2021,Snacks,Romania, 4184.0,2956.0

2021,Snacks,Russia, 8371.0,1412.0

2021,Snacks,Rwanda, 4766.0,2269.0

2021,Snacks,Saint Kitts and Nevis , 9613.0,7381.0

2021,Snacks,Saint Lucia, 7830.0,1715.0

2021,Snacks,Saint Vincent and the Grenadines, 8782.0,300.0

2021,Snacks,Samoa , 5769.0,3272.0

2021,Snacks,San Marino, 8214.0,5439.0

2021,Snacks,Sao Tome and Principe, 8358.0,735.0

2021,Snacks,Senegal, 5861.0,1133.0

2021,Snacks,Serbia, 7089.0,7089.0

2021,Snacks,Seychelles , 5994.0,4606.0

2021,Snacks,Sierra Leone, 6007.0,446.0

2021,Snacks,Singapore, 9429.0,8201.0

2021,Snacks,Slovakia, 9191.0,698.0

2021,Snacks,Slovenia, 6259.0,1106.0

2021,Snacks,Solomon Islands, 8133.0,1898.0

2021,Snacks,Somalia, 4779.0,4779.0

2021,Snacks,South Africa, 8912.0,3364.0

2021,Snacks,South Korea, 4344.0,4344.0

2021,Snacks,South Sudan, 4871.0,4871.0

2021,Snacks,Spain, 9732.0,1674.0

2021,Snacks,Sri Lanka, 8463.0,1385.0

2021,Snacks,Sudan, 8769.0,841.0

2021,Snacks,Swaziland, 8888.0,4449.0

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2021,Snacks,Syria, 9745.0,1422.0

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2021,Snacks,Tanzania, 3194.0,3194.0

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2021,Snacks,Togo, 9164.0,7646.0

2021,Snacks,Trinidad and Tobago, 9204.0,24.0

2021,Snacks,Tunisia , 8095.0,5320.0

2021,Snacks,Turkey, 7116.0,4619.0

2021,Snacks,Turkmenistan, 8742.0,2891.0

2021,Snacks,Tuvalu, 7711.0,762.0

2021,Snacks,Ukraine, 9442.0,5109.0

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2021,Snacks,Uzbekistan, 1647.0,1647.0

2021,Snacks,Vanuatu, 8544.0,1449.0

2021,Snacks,Vietnam, 7895.0,102.0

2021,Snacks,Yemen, 7527.0,5320.0

2021,Snacks,Zambia, 9851.0,565.0

2021,Snacks,Zimbabwe, 7368.0,3313.0

PS D:\For\_hadoop\Assignment\_Group\_150\Assignment>