

DataCleaning

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ma4759@login-2-1:~/Bigdata_Final_Project/transportation/etl_code
[ma4759@login-2-1 etl_code]$ ./etl.sh
Found 1 items
-rw-r--r--+ 3 ma4759 users      426644 2020-12-02 22:58 /user/ma4759/infrastructure/transportation/initialCleaning/Table_data-2.csv
Note: Clean.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
added manifest
adding: Clean.class(in = 1321) (out= 776)(deflated 41%)
adding: CleanMapper.class(in = 3079) (out= 1310)(deflated 57%)
adding: CleanReducer.class(in = 1145) (out= 416)(deflated 63%)
20/12/02 22:58:27 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed
. Implement the Tool interface and execute your application with ToolRunner to remedy this.
20/12/02 22:58:27 INFO input.FileInputFormat: Total input paths to process : 1
20/12/02 22:58:28 INFO mapreduce.JobSubmitter: number of splits:1
20/12/02 22:58:28 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1604346392376_7799
20/12/02 22:58:28 INFO impl.YarnClientImpl: Submitted application application_1604346392376_7799
20/12/02 22:58:28 INFO mapreduce.Job: The url to track the job: http://babar.es.its.nyu.edu:8088/proxy
/application_1604346392376_7799/
20/12/02 22:58:28 INFO mapreduce.Job: Running job: job_1604346392376_7799
20/12/02 22:58:32 INFO mapreduce.Job: Job job_1604346392376_7799 running in uber mode : false
20/12/02 22:58:32 INFO mapreduce.Job:  map 0% reduce 0%
20/12/02 22:58:37 INFO mapreduce.Job:  map 100% reduce 0%
20/12/02 22:58:40 INFO mapreduce.Job: Job job_1604346392376_7799 completed successfully
20/12/02 22:58:40 INFO mapreduce.Job: Counters: 30
  File System Counters
    FILE: Number of bytes read=0
    FILE: Number of bytes written=153912
    FILE: Number of read operations=0
    FILE: Number of large read operations=0
    FILE: Number of write operations=0
    HDFS: Number of bytes read=426796
    HDFS: Number of bytes written=202493
    HDFS: Number of read operations=5
    HDFS: Number of large read operations=0
    HDFS: Number of write operations=2
  Job Counters
    Launched map tasks=1
    Data-local map tasks=1
    Total time spent by all maps in occupied slots (ms)=9088
    Total time spent by all reduces in occupied slots (ms)=0
    Total time spent by all map tasks (ms)=2272
    Total vcore-milliseconds taken by all map tasks=2272
    Total megabyte-milliseconds taken by all map tasks=9306112
  Map-Reduce Framework
    Map input records=3143
    Map output records=3142
    Input split bytes=152
    Spilled Records=0
    Failed Shuffles=0
    Merged Map outputs=0
    GC time elapsed (ms)=42
    CPU time spent (ms)=1370
    Physical memory (bytes) snapshot=365891584
    Virtual memory (bytes) snapshot=3731124224
    Total committed heap usage (bytes)=1194852352
  File Input Format Counters
    Bytes Read=426644
  File Output Format Counters
    Bytes Written=202493
Alabama,Autauga County,114,55050,0.964912281,0.035087719,0,50.7,0
Alabama,Baldwin County,360,199510,0.980555556,0.019444444,0,30.4,0
Alabama,Barbour County,193,26615,0.968911917,0.031088083,0,14.7,0
Alabama,Bibb County,126,22570,1,0,0,25.1,5.5
Alabama,Blount County,183,57705,0.912568306,0.087431694,0,13.1,0
Alabama,Bullock County,138,10550,0.985507246,0.014492754,0,0,0
Alabama,Butler County,188,20280,0.946808511,0.053191489,0,45.3,0
Alabama,Calhoun County,374,115885,0.962566845,0.037433155,0,65.9,29.3
Alabama,Chambers County,184,34020,0.929347826,0.070652174,0,28.9,0
Alabama,Cherokee County,169,25895,0.982248521,0.017751479,0,0,0
Alabama,Chilton County,189,43815,0.984126984,0.015873016,0,59.4,0
Alabama,Choctaw County,153,13285,0.934640523,0.065359477,0,26.7,0
Alabama,Clarke County,155,24845,0.993548387,0.006451613,0,42.9,0
Alabama,Clay County,130,13485,0.915384615,0.084615385,0,28.8,0
Alabama,Cleburne County,165,14990,0.890909091,0.109090909,0,19.7,19.7
Alabama,Coffee County,214,50990,0.985981308,0.014018692,0,4.6,0
Alabama,Colbert County,175,54375,0.988571429,0.011428571,1,70.3,0
Alabama,Conecuh County,226,12695,0.915929204,0.084070796,0,39.1,0
Alabama,Coosa County,129,10865,0.937984496,0.062015504,0,12.9,0
Alabama,Covington County,337,37730,0.96735905,0.03264095,0,29.2,0
Alabama,Crenshaw County,171,13895,0.970760234,0.029239766,0,0,0
Alabama,Cullman County,245,81315,0.946938776,0.053061224,0,24.6,0
Alabama,Dale County,203,49605,1,0,1,53.4,0
Alabama,Dallas County,227,41425,0.969162996,0.030837004,0,110.7,0
Alabama,DeKalb County,300,70935,0.93,0.07,0,39.2,0
Alabama,Elmore County,198,80955,0.96969697,0.03030303,0,16.2,0
Alabama,Escambia Countv,196,37875,0.964285714,0.035714286,0,89.6,0
```

AcceptableRoads

```
ma4759@login-2-1:~/Bigdata_Final_Project/transportation/etl_code
Note: AcceptableRoads.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
added manifest
adding: AcceptableRoads.class(in = 1572) (out= 815)(deflated 48%)
adding: AcceptableRoadsMapper1.class(in = 1753) (out= 705)(deflated 59%)
adding: AcceptableRoadsMapper2.class(in = 1812) (out= 726)(deflated 59%)
adding: AcceptableRoadsReducer.class(in = 1999) (out= 872)(deflated 56%)
20/12/02 22:58:57 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed
. Implement the Tool interface and execute your application with ToolRunner to remedy this.
20/12/02 22:58:58 INFO input.FileInputFormat: Total input paths to process : 1
20/12/02 22:58:58 INFO input.FileInputFormat: Total input paths to process : 1
20/12/02 22:58:58 INFO mapreduce.JobSubmitter: number of splits:2
20/12/02 22:58:59 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1604346392376_7800
20/12/02 22:58:59 INFO impl.YarnClientImpl: Submitted application application_1604346392376_7800
20/12/02 22:58:59 INFO mapreduce.Job: The url to track the job: http://babar.es.its.nyu.edu:8088/proxy
/application_1604346392376_7800/
20/12/02 22:58:59 INFO mapreduce.Job: Running job: job_1604346392376_7800
20/12/02 22:59:03 INFO mapreduce.Job: Job job_1604346392376_7800 running in uber mode : false
20/12/02 22:59:03 INFO mapreduce.Job: map 0% reduce 0%
20/12/02 22:59:07 INFO mapreduce.Job: map 100% reduce 0%
20/12/02 22:59:13 INFO mapreduce.Job: map 100% reduce 100%
20/12/02 22:59:19 INFO mapreduce.Job: Job job_1604346392376_7800 completed successfully
20/12/02 22:59:19 INFO mapreduce.Job: Counters: 49

File System Counters
  FILE: Number of bytes read=137788
  FILE: Number of bytes written=5542767
  FILE: Number of read operations=0
  FILE: Number of large read operations=0
  FILE: Number of write operations=0
  HDFS: Number of bytes read=204215
  HDFS: Number of bytes written=239973
  HDFS: Number of read operations=102
  HDFS: Number of large read operations=0
  HDFS: Number of write operations=64

Job Counters
  Launched map tasks=2
  Launched reduce tasks=2
  Data-local map tasks=2
  Total time spent by all maps in occupied slots (ms)=17432
  Total time spent by all reduces in occupied slots (ms)=456294
  Total time spent by all map tasks (ms)=4358
  Total time spent by all reduce tasks (ms)=76049
  Total vcore-milliseconds taken by all map tasks=4358
  Total vcore-milliseconds taken by all reduce tasks=76049
  Total megabyte-milliseconds taken by all map tasks=17850368
  Total megabyte-milliseconds taken by all reduce tasks=467245056

Map-Reduce Framework
  Map input records=3195
  Map output records=3194
  Map output bytes=231686
  Map output materialized bytes=138527
  Input split bytes=565
  Combine input records=0
  Combine output records=0
  Reduce input groups=52
  Reduce shuffle bytes=138527
  Reduce input records=3194
  Reduce output records=3142
  Spilled Records=6388
  Shuffled Maps =64
  Failed Shuffles=0
  Merged Map outputs=64
  GC time elapsed (ms)=1673
  CPU time spent (ms)=42810
  Physical memory (bytes) snapshot=13691826176
  Virtual memory (bytes) snapshot=127226134528
  Total committed heap usage (bytes)=40938504192

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=0

File Output Format Counters
  Bytes Written=239973
Nevada,Washoe County,299,439915,0.97993311,0.02006689,1,143.5,42,0.873795386
Nevada,White Pine County,5,9895,1,0,0,31.9,31.9,0.873795386
Nevada,Carson City,0,54410,0,0,0,0,0,0.873795386
Nevada,Churchill County,68,24150,0.985294118,0.014705882,0,68.5,42,0.873795386
Nevada,Clark County,1056,2070155,0.996212121,0.003787879,1,160.2,4.3,0.873795386
Nevada,Nevada County,20,47405,1,0,0,0,0,0.873795386
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AddLandArea

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ma4759@login-2-1:~/Bigdata_Final_Project/transportation/etl_code
adding: LandAreaReducer.class(in = 2254) (out= 1016)(deflated 54%)
20/12/02 22:59:37 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed
. Implement the Tool interface and execute your application with ToolRunner to remedy this.
20/12/02 22:59:38 INFO input.FileInputFormat: Total input paths to process : 1
20/12/02 22:59:38 INFO input.FileInputFormat: Total input paths to process : 1
20/12/02 22:59:38 INFO mapreduce.JobSubmitter: number of splits:2
20/12/02 22:59:38 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1604346392376_7801
20/12/02 22:59:39 INFO impl.YarnClientImpl: Submitted application application_1604346392376_7801
20/12/02 22:59:39 INFO mapreduce.Job: The url to track the job: http://babar.es.its.nyu.edu:8088/proxy
/application_1604346392376_7801/
20/12/02 22:59:39 INFO mapreduce.Job: Running job: job_1604346392376_7801
20/12/02 22:59:43 INFO mapreduce.Job: Job job_1604346392376_7801 running in uber mode : false
20/12/02 22:59:43 INFO mapreduce.Job: map 0% reduce 0%
20/12/02 22:59:47 INFO mapreduce.Job: map 100% reduce 0%
20/12/02 22:59:53 INFO mapreduce.Job: map 100% reduce 100%
20/12/02 22:59:57 INFO mapreduce.Job: Job job_1604346392376_7801 completed successfully
20/12/02 22:59:57 INFO mapreduce.Job: Counters: 50
  File System Counters
    FILE: Number of bytes read=259334
    FILE: Number of bytes written=5815453
    FILE: Number of read operations=0
    FILE: Number of large read operations=0
    FILE: Number of write operations=0
    HDFS: Number of bytes read=785943
    HDFS: Number of bytes written=223243
    HDFS: Number of read operations=102
    HDFS: Number of large read operations=0
    HDFS: Number of write operations=64
  Job Counters
    Launched map tasks=2
    Launched reduce tasks=32
    Data-local map tasks=1
    Rack-local map tasks=1
    Total time spent by all maps in occupied slots (ms)=18896
    Total time spent by all reduces in occupied slots (ms)=466728
    Total time spent by all map tasks (ms)=4724
    Total time spent by all reduce tasks (ms)=77788
    Total vcore-milliseconds taken by all map tasks=4724
    Total vcore-milliseconds taken by all reduce tasks=77788
    Total megabyte-milliseconds taken by all map tasks=19349504
    Total megabyte-milliseconds taken by all reduce tasks=477929472
  Map-Reduce Framework
    Map input records=6341
    Map output records=6287
    Map output bytes=401153
    Map output materialized bytes=290687
    Input split bytes=550
    Combine input records=0
    Combine output records=0
    Reduce input groups=3147
    Reduce shuffle bytes=290687
    Reduce input records=6287
    Reduce output records=3129
    Spilled Records=12574
    Shuffled Maps =64
    Failed Shuffles=0
    Merged Map outputs=64
    GC time elapsed (ms)=1938
    CPU time spent (ms)=49520
    Physical memory (bytes) snapshot=14309101568
    Virtual memory (bytes) snapshot=127259836416
    Total committed heap usage (bytes)=41350070272
  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=0
  File Output Format Counters
    Bytes Written=223243
Michigan,Alpena,32,28930,0.9375,0.0625,19,0.771767308,1695
Mississippi,Amite,230,12690,0.804347826,0.195652174,0,0.731516457,731.64
North Carolina,Ashe,242,26990,0.723140496,0.276859504,0,0.890560355,426.78
Virginia,Bedford,196,76935,0.887755102,0.112244898,84.7,0.884284057,6.9
Kentucky,Bell,206,27675,0.878640777,0.121359223,78,0.920222177,361.35
South Carolina,Berkeley,206,199080,0.941747573,0.058252427,113.7,0.812866638,1228.07
Pennsylvania,Berks,665,414095,0.784962406,0.215037594,121.6,0.714875343,865.67
Wyoming,Big Horn,11930,0.901098901,0.098901099,75.9,0.803817764,3158.96
Georgia,Bleckley,12835,0.965517241,0.034482759,16,0.967672415,219.14
Idaho,Boise,88,6890,0.943181818,0.056818182,31.9,0.968883613,1906.76
Kentucky,Bell,206,27675,0.878640777,0.121359223,78,0.920222177,361.35
Mississippi,Amite,230,12690,0.804347826,0.195652174,0,0.731516457,731.64
North Carolina,Ashe,242,26990,0.723140496,0.276859504,0,0.890560355,426.78
Virginia,Bedford,196,76935,0.887755102,0.112244898,84.7,0.884284057,6.9
Kentucky,Bell,206,27675,0.878640777,0.121359223,78,0.920222177,361.35
South Carolina,Berkeley,206,199080,0.941747573,0.058252427,113.7,0.812866638,1228.07
Pennsylvania,Berks,665,414095,0.784962406,0.215037594,121.6,0.714875343,865.67
Wyoming,Big Horn,11930,0.901098901,0.098901099,75.9,0.803817764,3158.96
Georgia,Bleckley,12835,0.965517241,0.034482759,16,0.967672415,219.14
Idaho,Boise,88,6890,0.943181818,0.056818182,31.9,0.968883613,1906.76
Kentucky,Bell,206,27675,0.878640777,0.121359223,78,0.920222177,361.35
Mississippi,Amite,230,12690,0.804347826,0.195652174,0,0.731516457,731.64
North Carolina,Ashe,242,26990,0.723140496,0.276859504,0,0.890560355,426.78
Virginia,Bedford,196,76935,0.887755102,0.112244898,84.7,0.884284057,6.9
Kentucky,Bell,206,27675,0.878640777,0.121359223,78,0.920222177,361.35
South Carolina,Berkeley,206,199080,0.941747573,0.058252427,113.7,0.812866638,1228.07
Pennsylvania,Berks,665,414095,0.784962406,0.215037594,121.6,0.714875343,865.67
Wyoming,Big Horn,11930,0.901098901,0.098901099,75.9,0.803817764,3158.96
Georgia,Bleckley,12835,0.965517241,0.034482759,16,0.967672415,219.14
Idaho,Boise,88,6890,0.943181818,0.056818182,31.9,0.968883613,1906.76
Kentucky,Bell,206,27675,0.878640777,0.121359223,78,0.920222177,361.35
Mississippi,Amite,230,12690,0.804347826,0.195652174,0,0.731516457,731.64
North Carolina,Ashe,242,26990,0.723140496,0.276859504,0,0.890560355,426.78
Virginia,Bedford,196,76935,0.887755102,0.112244898,84.7,0.884284057,6.9
Kentucky,Bell,206,27675,0.878640777,0.121359223,78,0.920222177,361.35
South Carolina,Berkeley,206,199080,0.941747573,0.058252427,113.7,0.812866638,1228.07
Pennsylvania,Berks,665,414095,0.784962406,0.215037594,121.6,0.714875343,865.67
Wyoming,Big Horn,11930,0.901098901,0.098901099,75.9,0.803817764,3158.96
Georgia,Bleckley,12835,0.965517241,0.034482759,16,0.967672415,219.14
Idaho,Boise,88,6890,0.943181818,0.056818182,31.9,0.968883613,1906.76
Kentucky,Bell,206,27675,0.878640777,0.121359223,78,0.920222177,361.35
Mississippi,Amite,230,12690,0.804347826,0.195652174,0,0.731516457,731.64
North Carolina,Ashe,242,26990,0.723140496,0.276859504,0,0.890560355,426.78
Virginia,Bedford,196,76935,0.887755102,0.112244898,84.7,0.884284057,6.9
Kentucky,Bell,206,27675,0.878640777,0.121359223,78,0.920222177,361.35
South Carolina,Berkeley,206,199080,0.941747573,0.058252427,113.7,0.812866638,1228.07
Pennsylvania,Berks,665,414095,0.784962406,0.215037594,121.6,0.714875343,865.67
Wyoming,Big Horn,11930,0.901098901,0.098901099,75.9,0.803817764,3158.96
Georgia,Bleckley,12835,0.965517241,0.034482759,16,0.967672415,219.14
Idaho,Boise,88,6890,0.943181818,0.056818182,31.9,0.968883613,1906.76
Kentucky,Bell,206,27675,0.878640777,0.121359223,78,0.920222177,361.35
Mississippi,Amite,230,12690,0.804347826,0.195652174,0,0.731516457,731.64
North Carolina,Ashe,242,26990,0.723140496,0.276859504,0,0.890560355,426.78
Virginia,Bedford,196,76935,0.887755102,0.112244898,84.7,0.884284057,6.9
Kentucky,Bell,206,27675,0.878640777,0.121359223,78,0.920222177,361.35
South Carolina,Berkeley,206,199080,0.941747573,0.058252427,113.7,0.812866638,1228.07
Pennsylvania,Berks,665,414095,0.784962406,0.215037594,121.6,0.714875343,865.67
Wyoming,Big Horn,11930,0.901098901,0.098901099,75.9,0.803817764,3158.96
Georgia,Bleckley,12835,0.965517241,0.034482759,16,0.967672415,219.14
Idaho,Boise,88,6890,0.943181818,0.056818182,31.9,0.968883613,1906.76
Kentucky,Bell,206,27675,0.878640777,0.121359223,78,0.920222177,361.35
Mississippi,Amite,230,12690,0.804347826,0.195652174,0,0.731516457,731.64
North Carolina,Ashe,242,26990,0.723140496,0.276859504,0,0.890560355,426.78
Virginia,Bedford,196,76935,0.887755102,0.112244898,84.7,0.884284057,6.9
Kentucky,Bell,206,27675,0.878640777,0.121359223,78,0.920222177,361.35
South Carolina,Berkeley,206,199080,0.941747573,0.058252427,113.7,0.812866638,1228.07
Pennsylvania,Berks,665,414095,0.784962406,0.215037594,121.6,0.714875343,865.67
Wyoming,Big Horn,11930,0.901098901,0.098901099,75.9,0.803817764,3158.96
Georgia,Bleckley,12835,0.965517241,0.034482759,16,0.967672415,219.14
Idaho,Boise,88,6890,0.943181818,0.056818182,31.9,0.968883613,1906.76
Kentucky,Bell,206,27675,0.878640777,0.121359223,78,0.920222177,361.35
Mississippi,Amite,230,12690,0.804347826,0.195652174,0,0.731516457,731.64
North Carolina,Ashe,242,26990,0.723140496,0.276859504,0,0.890560355,426.78
Virginia,Bedford,196,76935,0.887755102,0.112244898,84.7,0.884284057,6.9
Kentucky,Bell,206,27675,0.878640777,0.121359223,78,0.920222177,361.35
South Carolina,Berkeley,206,199080,0.941747573,0.058252427,113.7,0.812866638,1228.07
Pennsylvania,Berks,665,414095,0.784962406,0.215037594,121.6,0.714875343,865.67
Wyoming,Big Horn,11930,0.901098901,0.098901099,75.9,0.803817764,3158.96
Georgia,Bleckley,12835,0.965517241,0.034482759,16,0.967672415,219.14
Idaho,Boise,88,6890,0.943181818,0.056818182,31.9,0.968883613,1906.76
Kentucky,Bell,206,27675,0.878640777,0.121359223,78,0.920222177,361.35
Mississippi,Amite,230,12690,0.804347826,0.195652174,0,0.731516457,731.64
North Carolina,Ashe,242,26990,0.723140496,0.276859504,0,0.890560355,426.78
Virginia,Bedford,196,76935,0.887755102,0.112244898,84.7,0.884284057,6.9
Kentucky,Bell,206,27675,0.878640777,0.121359223,78,0.920222177,361.35
South Carolina,Berkeley,206,199080,0.941747573,0.058252427,113.7,0.812866638,1228.07
Pennsylvania,Berks,665,414095,0.784962406,0.215037594,121.6,0.714875343,865.67
Wyoming,Big Horn,11930,0.901098901,0.098901099,75.9,0.803817764,3158.96
Georgia,Bleckley,12835,0.965517241,0.034482759,16,0.967672415,219.14
Idaho,Boise,88,6890,0.943181818,0.056818182,31.9,0.968883613,1906.76
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