



MapReduce - Programming Assignment

MapReduce_Task_screenshots



BY

Dharan R
Sanjana Dutta
Punith Vadla

MR_TASK

mrtask_a

```
[root@ip-172-31-10-80 ~]# ls
map.py red.py yellow_tripdata_2017-01.csv yellow_tripdata_2017-02.csv yellow_tripdata_2017-03.csv yellow_tripdata_2017-04.csv yellow_tripdata_2017-05.csv yellow_tripdata_2017-06.csv
[root@ip-172-31-10-80 ~]# cat yellow_tripdata_2017-01.csv | python map.py | python red.py
the max vendor id is 2 and its count is 5312899
Total revenue generated by them 82059254.39585336
[root@ip-172-31-10-80 ~]# cat yellow_tripdata_2017-01.csv yellow_tripdata_2017-02.csv yellow_tripdata_2017-03.csv yellow_tripdata_2017-04.csv yellow_tripdata_2017-05.csv yellow_tripdata_2017-06.csv | python map.py | python red.py
the max vendor id is 2 and its count is 32158202
Total revenue generated by them 525037658.13737655
[root@ip-172-31-10-80 ~]#
```

mrtask_b

```
[hadoop@ip-172-31-10-80 ~]$ cat yellow_tripdata_2017-01.csv | python mapperage.py | python reduced_max.py
Pulocation with more revenue 132 Amount generated 15680835.900003651
[hadoop@ip-172-31-10-80 ~]$ cat yellow_tripdata_2017-01.csv yellow_tripdata_2017-02.csv yellow_tripdata_2017-03.csv yellow_tripdata_2017-04.csv yellow_tripdata_2017-05.csv yellow_tripdata_2017-06.csv | python mapperage.py | python reduced_max.py
Pulocation with more revenue 132 Amount generated 77196812.23977433
[hadoop@ip-172-31-10-80 ~]$
```

mrtask_c

```
[hadoop@ip-172-31-10-80 ~]$ ls
map.py red.py yellow_tripdata_2017-01.csv yellow_tripdata_2017-02.csv yellow_tripdata_2017-03.csv yellow_tripdata_2017-04.csv yellow_tripdata_2017-05.csv yellow_tripdata_2017-06.csv
[hadoop@ip-172-31-10-80 ~]$ cat yellow_tripdata_2017-01.csv | python map.py | python red.py
payment_type payment_type count of user 1
payment_type 2 count of user 3144926
payment_type 1 count of user 6506189
payment_type 3 count of user 46257
payment_type 4 count of user 13447
payment_type 5 count of user 1
[hadoop@ip-172-31-10-80 ~]$ cat yellow_tripdata_2017-01.csv yellow_tripdata_2017-02.csv yellow_tripdata_2017-03.csv yellow_tripdata_2017-04.csv yellow_tripdata_2017-05.csv yellow_tripdata_2017-06.csv | python map.py | python red.py
payment_type payment_type count of user 6
payment_type 2 count of user 16032370
payment_type 1 count of user 39764212
payment_type 3 count of user 306912
payment_type 4 count of user 68794
payment_type 5 count of user 3
[hadoop@ip-172-31-10-80 ~]$
```

mrtask_d

```
The PULocationID : 211 Average trip generated : 21.5
The PULocationID : 87 Average trip generated : 29.5
The PULocationID : 151 Average trip generated : 14.0
The PULocationID : 142 Average trip generated : 15.363636363636363
The PULocationID : 80 Average trip generated : 23.0
The PULocationID : 189 Average trip generated : 12.0
The PULocationID : 234 Average trip generated : 18.0
The PULocationID : 143 Average trip generated : 5.0
The PULocationID : 132 Average trip generated : 26.5
The PULocationID : 229 Average trip generated : 13.333333333333334
The PULocationID : 141 Average trip generated : 12.666666666666666
The PULocationID : 50 Average trip generated : 14.666666666666666
The PULocationID : 90 Average trip generated : 18.0
The PULocationID : 113 Average trip generated : 18.666666666666668
The PULocationID : 68 Average trip generated : 20.142857142857142
The PULocationID : 145 Average trip generated : 13.0
The PULocationID : 233 Average trip generated : 16.5
The PULocationID : 75 Average trip generated : 6.666666666666667
The PULocationID : 166 Average trip generated : 3.5
The PULocationID : 152 Average trip generated : 15.0
The PULocationID : 24 Average trip generated : 23.25
The PULocationID : 43 Average trip generated : 13.25
The PULocationID : 158 Average trip generated : 26.0
The PULocationID : 164 Average trip generated : 10.857142857142858
The PULocationID : 137 Average trip generated : 11.0
The PULocationID : 13 Average trip generated : 55.0
The PULocationID : 148 Average trip generated : 14.0
The PULocationID : 144 Average trip generated : 12.0
The PULocationID : 248 Average trip generated : 14.0
The PULocationID : 79 Average trip generated : 14.083333333333334
The PULocationID : 88 Average trip generated : 11.0
The PULocationID : 209 Average trip generated : 5.0
The PULocationID : 231 Average trip generated : 21.5
The PULocationID : 130 Average trip generated : 22.0
The PULocationID : 100 Average trip generated : 32.0
The PULocationID : 125 Average trip generated : 9.333333333333334
The PULocationID : 45 Average trip generated : 10.5
The PULocationID : 65 Average trip generated : 10.0
The PULocationID : 4 Average trip generated : 4.0
The PULocationID : 116 Average trip generated : 3.5
The PULocationID : 74 Average trip generated : 2.0
The PULocationID : 162 Average trip generated : 14.666666666666666
```

mrtask_e

```
[hadoop@ip-172-31-10-80 ~]$ hadoop@ip-172-31-10-80 cat /usr/local/hadoop-2.10.1/bin/hadoop-mapreduce.py | python map.py | python red.py
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```

mrtask_f

```
The PULocationID : 211 Average trip generated : 21.5
The PULocationID : 87 Average trip generated : 29.5
The PULocationID : 151 Average trip generated : 14.0
The PULocationID : 142 Average trip generated : 15.363636363636363
The PULocationID : 80 Average trip generated : 23.0
The PULocationID : 189 Average trip generated : 12.0
The PULocationID : 234 Average trip generated : 18.0
The PULocationID : 143 Average trip generated : 5.0
The PULocationID : 132 Average trip generated : 26.5
The PULocationID : 229 Average trip generated : 13.333333333333334
The PULocationID : 141 Average trip generated : 12.666666666666666
The PULocationID : 50 Average trip generated : 14.666666666666666
The PULocationID : 90 Average trip generated : 18.0
The PULocationID : 113 Average trip generated : 18.666666666666668
The PULocationID : 68 Average trip generated : 20.142857142857142
The PULocationID : 145 Average trip generated : 13.0
The PULocationID : 233 Average trip generated : 16.5
The PULocationID : 75 Average trip generated : 6.666666666666667
The PULocationID : 166 Average trip generated : 3.5
The PULocationID : 152 Average trip generated : 15.0
The PULocationID : 24 Average trip generated : 23.25
The PULocationID : 43 Average trip generated : 13.25
The PULocationID : 158 Average trip generated : 26.0
The PULocationID : 164 Average trip generated : 10.857142857142858
The PULocationID : 137 Average trip generated : 11.0
The PULocationID : 13 Average trip generated : 55.0
The PULocationID : 148 Average trip generated : 14.0
The PULocationID : 144 Average trip generated : 12.0
The PULocationID : 248 Average trip generated : 14.0
The PULocationID : 79 Average trip generated : 14.083333333333334
The PULocationID : 88 Average trip generated : 11.0
The PULocationID : 209 Average trip generated : 5.0
The PULocationID : 231 Average trip generated : 21.5
The PULocationID : 130 Average trip generated : 22.0
The PULocationID : 100 Average trip generated : 32.0
The PULocationID : 125 Average trip generated : 9.333333333333334
The PULocationID : 45 Average trip generated : 10.5
The PULocationID : 65 Average trip generated : 10.0
The PULocationID : 4 Average trip generated : 4.0
The PULocationID : 116 Average trip generated : 3.5
The PULocationID : 74 Average trip generated : 2.0
The PULocationID : 162 Average trip generated : 14.666666666666666
```