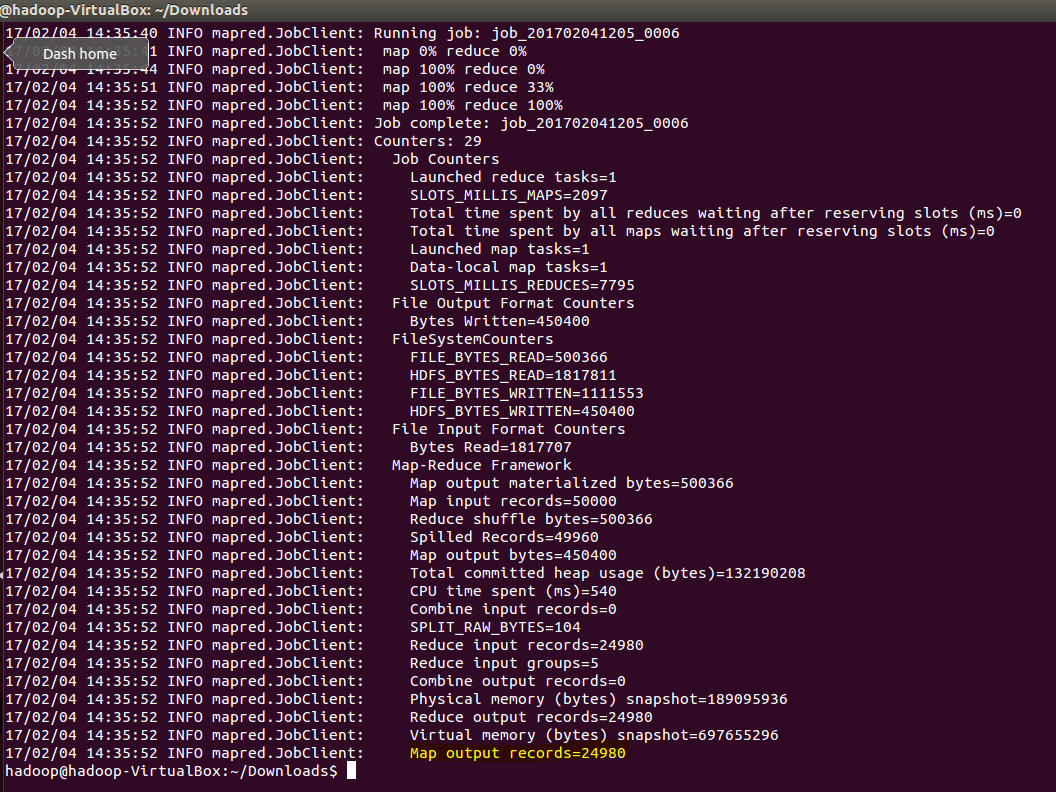
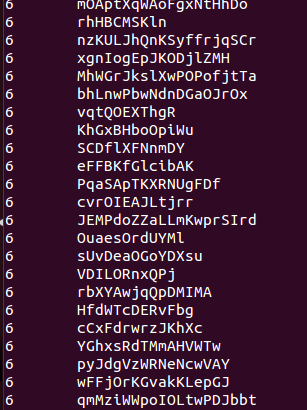
3.1 Query 1

Total 24980 record of 50,000 customer with country code between 2-6





Part of filter result, country code and customer name

3.2 query 2

Write a job(s) that reports for every customer, the number of transactions that customer did and the total sum of these transactions. The output file should have one line for each customer containing:

CustomerID, You are required to use a Combiner in this query

NumTransactions, TotalSum



File: /tmp/customers.csv/part-r-OOOOO 
. Vtmp/customers.csv 
Goto • 
Go back to dir listin 
Advanced view/download options 
View Next chunk 
1, 92, 43034.4 
2, 79, 37820 203 
3, 112, 55001 484 
4, 112, 59234. 992 
s, 100, 50139. z-_ 
6, 108, 54330. 246 
7, 95, 46040. 715 
8, 111, 54854 305 
g, 107, 52010. 086 
10, 85, 40245. og 
11, 95, 43882.57 
12, 93, 46818.8 
13, 104, 54540. 523 
14, 110, 55666. 082 
15, 103, 55025.117 
16, 107, 53380. 207 
17, 95, 48307 496 
18, 105, 52289.18 
19, 101, 48325. 56 
20, 108, 60290 023 
21, 100, 49793. 27 
22, 98, 52933. 707 
23, 95, 062 
24, 85, 44320. 137 
25, 100, 48944. 043 
26, 95, 47549. 402 

4.1

/\*Write an Apache Pig query that reports the customer names that have the least number of transactions\*/



See the customer\_id and transaction number, min 51

(16523, 68) 
(21530 , 68) 
(15239,67) 
(14043,67) 
(38564, 67) 
(45607 , 67) 
(45095, 66) 
(44646 , 64) 
(47126, 63) 
(47871, 63) 
(29002 , 59) 
(24608, 51) 
2017-02-05 [main] ERROR org.apache. 
pig. tools.grunt.Grunt - 
ERROR 10 
00: Error during parsing. Encountered " <PATH> 
"D3-ORDERED DESC 
at line 2, c 
lumn 6. 
Was expecting one of: 
< EOF> 

Maxium 145

(17506,140) 
(28883 , 140) 
(37328 , 140) 
(5707 , 141) 
(2839 , 142) 
(18398, 143) 
(6346 , 145) 

 Retrieve the lowest customer name

228 [main] INFO org.apache . pig. backend. hadoop. 
2017-02-05 12:09:14, 
ne . util . MapRedUttl 
- Total input paths to process 
(ZQubROFZQmuo,51) 
grunt> 

File: /tmp/PIG_Q1.csv/part-r-OOOOO 
Goto : Vtmp/PlG Qi.csv 
Go back to dir listin 
Advanced view/download options 
ZQubRoFzQmJ',No , 51 

4.2

/\*

Write an Apache Pig query that join Customers and Transactions using Broadcast (replicated) join. The query reports for each customer the following info:

CustomerID, Name, Salary, NumOf Transactions, TotalSum, MinItem

number of transaction total number of transaction,

totalsum is sum of transtotal

minum number of item in transaction

\*/



Code using 'replicated'

(49988 , vejHDNwmtweTEQYDcn , 9671.999 , 77 , 42907.84966182709 , 1) 
(49989 , sww0PhcqguhzxjE1 , 5999.9507 , 95 , 48367.03768348694, 1) 
(49990, 
axNcrqLRdqzjGFeHzw , 6904.114 , 99 , 50608.32879924774, 1) 
(49991 , DygyjQFXYVEALLdOKWZ , 4405.227 , 109 , 52607.33077812195 , 1) 
(49992 , AEWBhrAYqpHKZeE , 5267.631 , 106 , 55242.20034599304, 1) 
(49993, 
kxnwzmhsmwttB , 1989.1237 , 114 , 53473.36391830444 , 1) 
(49994 , 
eabMIYSHsKubXYgzvv , 5709.443 , 117 , 59660.40106201172, 1) 
(49995 , otwRJtw1nAmZKMf1 , 6963.8047 , 115 , 63341.01471328735 , 1) 
(49996, 
ABcgcnwNxgLVADPNL , 5244.646 , 87 , 39914.57150268555 , 1) 
(49997, 
tTFe1CKzUFY0j0NYh , 284.10858 , 100 , 50321.8217048645 , 1) 
(49998, 
cVkDzzfSQSBNtnck , 1424.8522 , 90 , 40804.66194152832 , 1) 
(49999, 
dbuqysJoudmR , 9311.197 , 100 , 50218.591426849365 , 1) 
( 50000 , twtcoxZk1YBQheyp , 2496.2346 , 101 ,47782.20666885376 , 1) 
grunt> 

 Show CustomerID, Name, Salary, NumOf Transactions, TotalSum, MinItem

File: /tmp/PIG_Q2.csv/part-r-OOOOO 
. Vtmp/PlG Q2.csv 
Goto • 
Go back to dir listin 
Advanced view/download options 
View Next chunk 
1, dczVfNzxyoHi , 9383 589, 92, 43034 40139389038, 
2, RbbyNNVcxptfzG, 3561 0757 , 79, 37820 205266952515, 
3, UGFtNmkjNnCeTzsHoJSO, 2262 9424, 112, 55001 48632621765, 
4, NydJQN0vQAyqcy , 9176 407 , 112, 59234 990156173706, 
6, Fhq1QccUBcMC, 4540 4175, 108, 54330 246509552, 
7, ksn80b0VNnKyHDJ , 2198 9424, 95, 46040 71289539337 , 1 
, Rwh8SaFPoMbGNYKwMC, 8678 553, 111 , 54854 305086135864, 
g, ivPcMmHGj ttE, 5722 621 , 107 , 52010 08278656006, 
10, PQtdwgf8LkKEG, 5578 2817, 85, 40245 088148117065, 1 
11 , X8JvxTfDQidezj , 319 8501 , 95, 43882 56953620911 , 1 
12, iySa1YKZrFLcNcRO, 9138 897 , 93, 46818 79751968384, 
13, XEJRSFtqXtfM, 5174 7583, 104, 54540 527338027954, 
14, zpWoGcxhcNNtUOyk , 4713 1416, 110, 55666 08066558838, 
15, MzYJtMvcCHednnv , 5025 0244, 103, 55025 11685466766, 
16, j , 742 9388, 107 , 53380 211141586304, 
17, aznxrLyxbJN1pxFR-x, 227 79965, 95, 48307 497371673584, 
18, amfbxTYuUf1gMoxxqk , 7853 1714, 105, 52289 17593193054, 
19, ebAUcbHm rDpvvKk , 8022 gog, 101 , 48325 555203437805, 
20, fiTgRXLj1G, 6525 8857 , 108, 60290 024965286255, 
21 , mKxvwgPMybagEv1BeF, 6762 5645, 100, 49793 27274131775, 
22, XjRQBK1nNYbD, 6832 72, 98, 52933 705921173096, 1 
23, , 7743 1235, 95, 50793 06426048279, 
24, oseRhgopbaTDKEZ, 6055 5767 , 85, 44320 136865615845, 
25, LpNSAkaPzMYTG, 9987 636, 100, 48944 0419960022, 
26, KaLDtSSssaZQmkLkos , 2374 6895, 95, 47549 40232658386, 

4.3

/\*

Write an Apache Pig query that reports the Country Codes having number of customers greater than 5000 or less than 2000

\*/



 Country code and customer number

adoop-VirtualBox: — 
30b DAG: 
2017-02-05 14:20:29 , 405 [main] INFO org.apache.pig.backend.hadoop . executionengt 
ne .mapReduceLayer .MapReduceLauncher - 
Success ! 
2017-02-05 14:20:29 , 406 [main] INFO org.apache.ptg.data.SchemaTupleBackend - 
y [pig. schematuple] was not set... 
will not generate code. 
2017-02-05 14:20:29 , 409 [main] INFO org.apache.hadoop.mapreduce.lib.input.Filel 
nputFormat - Total input paths to process 
1 
2017-02-05 14:20: 29,409 [main] INFO org.apache.pig.backend.hadoop.executtonengt 
ne.uttl.MapRedUttl - Total input paths to process 
(1, 5032) 
(2,4977) 
(3,4969) 
(4, 5039) 
(5, 5092) 
(6,4903) 
(7,4975) 
(8 , 5024) 
(9,4985) 
(10, 5004) 
grunt> 

Dump show

"e .mapReduceLayer .MapReduceLauncher - 
Success ! 
'017-02-05 14:22:19, 320 [main] INFO org.apache.ptg.data.SchemaTupleBackend 
[pig. schematuple] was not set. 
will not generate code. 
'017-02-05 14:22:19, 326 [main] INFO org.apache.hadoop.mapreduce.lib.input.F 
IputFormat - Total input paths to process 
.1 
'017-02-05 14:22:19, 326 [main] INFO org.apache.pig.backend.hadoop.executton 
le.uttl.MapRedUttl - Total input paths to process 
a, 5032) 
g, 5039) 
, 5024) 
, 5004) 
Jrunt> 

Filter >5000 or < 2000

File: /tmp/PIG_Q3.csv/part-r-OOOOO 
Goto : 
/tmp/PlG Q3.csv 
go 
Go back to dir listin 
Advanced view/download options 
1, 5032 
4, 5039 
s, 5092 
8, 5024 
10, 5004 