export09

1345383.5

export08

997377.3

```
> source("../source/results by factors.r",echo=T)
> results.sales.by.grade.trmean<-by(results.7[,c("sales08","sales09","sales10","sales.total")</pre>
> print(results.sales.by.grade.trmean)
results.7$grade: A
    sales08
              sales09
                           sales10 sales.total
   20430.71
               26243.00
                           30930.24
                                    77603.94
results.7$grade: B
   sales08
            sales09
                          sales10 sales.total
   45175.42
              22790.33
                           27778.79 125509.68
results.7$grade: C
   sales08
              sales09
                           sales10 sales.total
   11458.14
              15333.96
                           14911.00 42271.19
> results.jobs.by.grade.trmean<-by(results.7[,c("jobs08","jobs09","jobs10","jobs.total")],res
> print(results.jobs.by.grade.trmean)
results.7$grade: A
    jobs08
           jobs09
                          jobs10 jobs.total
  236.5294
             354.7647
                        425.7647 1017.0588
results.7$grade: B
    jobs08
            jobs09
                         jobs10 jobs.total
  418.1111
            316.7368
                        390.6000 1262.1667
results.7$grade: C
    jobs08
           jobs09
                          jobs10 jobs.total
  40.36364
            48.40741
                        57.07407 152.10000
> results.corp.by.grade.trmean<-by(results.7[,c("corp08","corp09","corp10","corp.total")],res</pre>
> print(results.corp.by.grade.trmean)
results.7$grade: A
    corp08
           corp09
                         corp10 corp.total
                        6.692308 22.333333
  6.230769
             7.066667
results.7$grade: B
   corp08
            corp09
                        corp10 corp.total
  5.461538
            5.666667
                        3.769231 17.000000
results.7$grade: C
   corp08
            corp09
                         corp10 corp.total
 15.363636
            7.947368
                        4.44444 42.777778
> results.export.by.grade.trmean<-by(results.7[,c("export08","export09","export10","export.to</pre>
> print(results.export.by.grade.trmean)
results.7$grade: A
    export08
                 export09
                              export10 export.total
     1575071
                 2190165
                               2789879
                                            7586433
results.7$grade: B
   export08
                export09
                              export10 export.total
     2293939
                 2107442
                              3171480
                                           8756372
results.7$grade: C
```

export10 export.total

1687106.3 5007708.1

```
> results.income.household.by.grade.trmean<-by(results.7[household, c("income08","income09","
> print(results.income.household.by.grade.trmean)
results.7$grade[household]: A
    income08
                 income09
                               income10 income.total
    27.16667
                 34.66667
                               36.00000
                                            97.83333
results.7$grade[household]: B
    income08
                 income09
                              income10 income.total
                 58.60000
    51.44444
                               55.10000
                                           177.11111
results.7$grade[household]: C
                               income10 income.total
    income08
                 income09
    67.33333
                 62.26667
                               69.13333
                                        198.73333
> results.income.total.by.grade.trmean<-by(results.7[total, c("income08","income09","income10
> print(results.income.total.by.grade.trmean)
results.7$grade[total]: A
    income08
                 income09
                               income10 income.total
     22852.4
                  12504.2
                                15105.2
                                             50461.8
results.7$grade[total]: B
    income08
                 income09
                              income10 income.total
    18781.00
                 14524.82
                               18519.64
                                            51825.45
results.7$grade[total]: C
    income08
                 income09
                               income10 income.total
    22495.56
                 18888.40
                                4589.60
                                           48786.25
> results.leader.by.grade.trmean<-by(results.7[,c("leader08","leader09","leader10","leader.to</pre>
> print(results.leader.by.grade.trmean)
results.7$grade: A
    leader08
                 leader09
                               leader10 leader.total
    102.7333
                 205.1176
                               220.9412
                                            574.9333
results.7$grade: B
    leader08
                 leader09
                               leader10 leader.total
    322.9474
                 226.0526
                               131.7368
results.7$grade: C
    leader08
                 leader09
                               leader10 leader.total
    151.0476
                 191.7200
                               186.1667
                                            680.4211
> results.sales.by.Region.trmean<-by(results.7[,c("sales08","sales09","sales10","sales.total"</pre>
> print(results.sales.by.Region.trmean)
results.7$Region: 영남
    sales08
                sales09
                            sales10 sales.total
   12997.72
               19748.39
                            22666.33
                                        56241.67
results.7$Region: 중부
    sales08
               sales09
                            sales10 sales.total
   14199.53
               18047.80
                            19862.10
                                        54764.84
results.7$Region: 호남
    sales08
             sales09
                            sales10 sales.total
   48739.06
               22329.72
                            26589.32 128670.11
```

16201.273

income08

38097.88

results.7\$Region[total]: 호남

8905.300

income09

27905.00

7585.818

18685.00

```
Results_by_factors_1030_trmean.txt
                                                                                 Page 3 of 5
Printed: 11. 10. 30. 오후 3:48:42
                                                                      Printed For: Kee-Won Lee
> results.jobs.by.Region.trmean<-by(results.7[,c("jobs08","jobs09","jobs10","jobs.total")],re</pre>
> print(results.jobs.by.Region.trmean)
results.7$Region: 영남
    jobs08
               jobs09
                          jobs10 jobs.total
  108.1667
             121.5263
                        139.9444 716.1053
results.7$Region: 중부
    jobs08
               jobs09
                          jobs10 jobs.total
 193.30000
             87.22727
                       175.27273 576.73684
results.7$Region: 호남
                          jobs10 jobs.total
    jobs08
               jobs09
  241.8421
             257.0000
                        246.8182 1007.8947
> results.corp.by.Region.trmean<-by(results.7[,c("corp08","corp09","corp10","corp.total")],re</pre>
> print(results.corp.by.Region.trmean)
results.7$Region: 영남
    corp08
             corp09
                          corp10 corp.total
  8.636364
             6.285714
                        4.461538 24.777778
results.7$Region: 중부
            corp09
    corp08
                         corp10 corp.total
 12.272727
             9.666667
                        9.214286 40.111111
results.7$Region: 호남
    corp08
               corp09
                          corp10 corp.total
                        5.789474 18.285714
  6.066667
             4.666667
> results.income.household.by.Region.trmean<-by(results.7[household, c("income08","income09",
> print(results.income.household.by.Region.trmean)
results.7$Region[household]: 영남
    income08
                income09
                              income10 income.total
    40.53846
                 45.69231
                              48.00000
                                       134.23077
results.7$Region[household]: 중부
    income08
                 income09
                              income10 income.total
    69.00000
                 79.30769
                              83.00000
                                          231.30769
results.7$Region[household]: 호남
                              income10 income.total
    income08
                 income09
    37.50000
                 28.27273
                              28.81818 99.70000
> results.income.total.by.Region.trmean<-by(results.7[total, c("income08","income09","income1
> print(results.income.total.by.Region.trmean)
results.7$Region[total]: 영남
    income08
                 income09
                              income10 income.total
                 7179.167
    6719.333
                             12254.833
                                          26153.333
results.7$Region[total]: 중부
    income08
                income09
                              income10 income.total
```

91003.50

income10 income.total

32773.100

<sup>&</sup>gt; results.leader.by.Region.trmean<-by(results.7[,c("leader08","leader09","leader10","leader.t

```
> print(results.leader.by.grade.trmean)
results.7$grade: A
    leader08
                 leader09
                              leader10 leader.total
    102.7333
                 205.1176
                              220.9412
                                            574.9333
results.7$grade: B
    leader08
                 leader09
                              leader10 leader.total
    322.9474
                 226.0526
                              131.7368
                                           810.6316
results.7$grade: C
    leader08
                 leader09
                              leader10 leader.total
    151.0476
                 191.7200
                              186.1667
                                           680.4211
> results.sales.by.class.trmean<-by(results.7[,c("sales08","sales09","sales10","sales.total")</pre>
> print(results.sales.by.class.trmean)
results.7$class: Better
    sales08
               sales09
                            sales10 sales.total
   20852.92
               30094.88
                           33225.77
                                       95512.79
results.7$class: Middle
   sales08
               sales09
                           sales10 sales.total
   13286.61
               14193.67
                           18506.89
                                        45987.17
results.7$class: Under
                            sales10 sales.total
               sales09
   sales08
   32011.80
               30693.94
                           26939.22 97985.93
> results.jobs.by.class.trmean<-by(results.7[,c("jobs08","jobs09","jobs10","jobs.total")],res</pre>
> print(results.jobs.by.class.trmean)
results.7$class: Better
    jobs08
                          jobs10 jobs.total
               jobs09
  262.9167
             256.3793
                        288.0000
                                  964.8696
results.7$class: Middle
    jobs08
             jobs09
                          jobs10 jobs.total
  178.7778
             255.5000
                        258.4118 713.6471
results.7$class: Under
    jobs08
               jobs09
                          jobs10 jobs.total
 180.58824
             87.61111 251.63158 552.35294
> results.corp.by.class.trmean<-by(results.7[,c("corp08","corp09","corp10","corp.total")],res</pre>
> print(results.corp.by.class.trmean)
results.7$class: Better
    corp08
               corp09
                          corp10 corp.total
 13.687500 10.000000
                        4.44444 39.769231
results.7$class: Middle
    corp08
             corp09
                          corp10 corp.total
  5.818182
             6.666667
                        5.357143 20.545455
results.7$class: Under
    corp08
             corp09
                          corp10 corp.total
  3.800000
                        5.083333 12.125000
             3.466667
```

```
> results.export.by.class.trmean<-by(results.7[,c("export08","export09","export10","export.to
> print(results.export.by.class.trmean)
results.7$class: Better
   export08
               export09
                             export10 export.total
     1732106
                 1664408
                              2033172 8320542
results.7$class: Middle
   export08
                export09
                             export10 export.total
    1531527
                1550987
                             1931611 6018646
results.7$class: Under
                export09
                             export10 export.total
    export08
     1505363
                              2254464
                 1449990
                                           6462238
> results.income.household.by.class.trmean<-by(results.7[household, c("income08","income09","
> print(results.income.household.by.class.trmean)
results.7$class[household]: Better
    income08
                income09
                             income10 income.total
    62.00000
                 66.05882
                             72.23529
                                         200.29412
results.7$class[household]: Middle
    income08
             income09
                             income10 income.total
    33.66667
                31.70000
                             33.00000 104.88889
results.7$class[household]: Under
                income09
                             income10 income.total
    income08
        44.2
                     49.6
                                 46.2
                                            140.0
> results.income.total.by.class.trmean<-by(results.7[total,c("income08","income09","income10"</pre>
> print(results.income.total.by.class.trmean)
results.7$class[total]: Better
    income08
                income09
                             income10 income.total
    28959.55
                20367.92
                             11658.45
                                       64444.30
results.7$class[total]: Middle
                          income10 income.total
    income08
               income09
   19113.333
               12471.000
                             9386.857 42505.667
results.7$class[total]: Under
                             income10 income.total
    income08
                income09
    11259.75
                 11492.12
                             16398.38
                                       39150.25
> results.leader.by.class.trmean<-by(results.7[,c("leader08","leader09","leader10","leader.to
> print(results.leader.by.grade.trmean)
results.7$grade: A
                             leader10 leader.total
    leader08
                leader09
    102.7333
                 205.1176
                             220.9412
                                       574.9333
results.7$grade: B
   leader08
               leader09
                             leader10 leader.total
    322.9474
                226.0526
                             131.7368 810.6316
results.7$grade: C
                             leader10 leader.total
    leader08
                leader09
    151.0476
                191.7200
                             186.1667 680.4211
```