job submitted

```
library(tidyverse)
library(janitor)
library(dineq)
library(purrr)
library(ineq)
#household
h_var_list <- c("hid","year", "dhi", "nhhmem", "hwgt","rural","region_c","own")
names_files_h <- c("fr18h","fr17h","fr16h",
"fr15h","fr14h","fr13h","fr12h","fr11h","fr10h","fr09h","fr08h","fr07h","fr06h","fr05h",
"fr84h","fr90h","fr96h","fr97h","fr98h","fr99h","fr00h","fr01h","fr02h","fr03h","fr04h")
files_h <- purrr::map(.x = names_files_h,
                      ~read.LIS(.x, vars = h_var_list))
names(files_h) <- names_files_h
#personal
p_var_list<- c("hid",'educ',"educ_c","pid", "pi11", "age", "relation", "pwgt","immigr","inda1",'occ1_c')
names_files_p <- c("fr18p","fr17p","fr16p",
"fr15p","fr14p","fr13p","fr12p","fr11p","fr10p","fr09p","fr08p","fr07p","fr06p","fr05p",
"fr84p","fr90p","fr96p","fr97p","fr98p","fr99p","fr00p","fr01p","fr02p","fr03p","fr04p")
files_p <- purrr::map(.x = names_files_p,
                      ~read.LIS(.x, vars = p_var_list))
names(files_p) <- names_files_p
#merge
merged_files <- purrr::map2(.x = files_p,
                            .y = files_h,
                            .f = ~left_join(.x, .y, by = "hid"))
names(merged_files) <- c("fr18h","fr17h","fr16h",
"fr15h","fr14h","fr13h","fr12h","fr11h","fr10h","fr09h","fr08h","fr07h","fr06h","fr05h")
merged_files <- lapply(merged_files, function(x) {x$educ_c <- as.factor(x$educ_c); x})
merged_files <- lapply(merged_files, function(x) {x$region_c <- as.character(x$region_c); x})
df <- merged_files %>%
  bind_rows(.id = "file")
#Education
df2<-df %>%
  group_by(region_c, year,educ) %>%
  summarize(avg_inc = weighted.mean(dhi,hwgt)) %>%
  ungroup()
df2<-df2 %>%
  pivot_wider(values_from = avg_inc,names_from = educ)%>%
  mutate(ratio = (`[1]low` / `[3]high`))
print(tbl_df(df2), n=502)
```

listing

```
############################## NOTICE TO USERS ##############################

  Use of the data in the LUXEMBOURG INCOME STUDY DATABASE is governed by
  regulations which do not allow copying or further distribution of the
  survey microdata.

  Anyone violating these regulations will lose all privileges to the
  databases and may be subject to prosecution under the law. In addition,
  any attempt to circumvent the LIS processing system or unauthorized entry
  into the LIS computing system will result in prosecution.
```

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```
############################ NOTICE TO USERS ############################

> options(echo=FALSE, encoding="UTF-8")
Loading required package: readstata13
> options(error = expression(q('no')))
> library(tidyverse)
── ── Attaching packages
──────────────────────────────────────────────────
──────────────────────────────────────────────────
────────────────────────────────────── tidyverse 1.3.2
── ──
✔ ggplot2 3.4.3      ✔ purrr   1.0.0
✔ tibble  3.2.1      ✔ dplyr   1.1.1
✔ tidyr   1.2.1      ✔ stringr 1.5.0
✔ readr   2.1.3      ✔ forcats 0.5.2
── ── Conflicts
──────────────────────────────────────────────────
──────────────────────────────────────────────────
──────────────────────────────────────────────────
tidyverse_conflicts() ── ──
✖ dplyr::filter() masks stats::filter()
✖ dplyr::lag()    masks stats::lag()
> library(janitor)

Attaching package: ‘janitor’

The following objects are masked from ‘package:stats’:

    chisq.test, fisher.test

> library(dineq)
> library(purrr)
> library(ineq)
> #household
> h_var_list <- c("hid","year", "dhi", "nhhmem", "hwgt","rural","region_c","own")
> names_files_h <- c("fr18h","fr17h","fr16h",
"fr15h","fr14h","fr13h","fr12h","fr11h","fr10h","fr09h","fr08h","fr07h","fr06h","fr05h",
+ "fr84h","fr90h","fr96h","fr97h","fr98h","fr99h","fr00h","fr01h","fr02h","fr03h","fr04h")
> files_h <- purrr::map(.x = names_files_h,
+                       ~read.LIS(.x, vars = h_var_list))
[1] "Loading dataset fr18h..."
[1] "Loading dataset fr17h..."
[1] "Loading dataset fr16h..."
[1] "Loading dataset fr15h..."
[1] "Loading dataset fr14h..."
[1] "Loading dataset fr13h..."
[1] "Loading dataset fr12h..."
[1] "Loading dataset fr11h..."
[1] "Loading dataset fr10h..."
[1] "Loading dataset fr09h..."
[1] "Loading dataset fr08h..."
[1] "Loading dataset fr07h..."
```

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```
[1] "Loading dataset fr06h..."
[1] "Loading dataset fr05h..."
[1] "Loading dataset fr84h..."
[1] "Loading dataset fr90h..."
[1] "Loading dataset fr96h..."
[1] "Loading dataset fr97h..."
[1] "Loading dataset fr98h..."
[1] "Loading dataset fr99h..."
[1] "Loading dataset fr00h..."
[1] "Loading dataset fr01h..."
[1] "Loading dataset fr02h..."
[1] "Loading dataset fr03h..."
[1] "Loading dataset fr04h..."
> names(files_h) <- names_files_h
> #personal
> p_var_list<- c("hid",'educ',"educ_c","pid", "pi11", "age", "relation", "pwgt","immigr","inda1",'occ1_c')
> names_files_p <- c("fr18p","fr17p","fr16p",
"fr15p","fr14p","fr13p","fr12p","fr11p","fr10p","fr09p","fr08p","fr07p","fr06p","fr05p",
+ "fr84p","fr90p","fr96p","fr97p","fr98p","fr99p","fr00p","fr01p","fr02p","fr03p","fr04p")
> files_p <- purrr::map(.x = names_files_p,
+                       ~read.LIS(.x, vars = p_var_list))
[1] "Loading dataset fr18p..."
[1] "Loading dataset fr17p..."
[1] "Loading dataset fr16p..."
[1] "Loading dataset fr15p..."
[1] "Loading dataset fr14p..."
[1] "Loading dataset fr13p..."
[1] "Loading dataset fr12p..."
[1] "Loading dataset fr11p..."
[1] "Loading dataset fr10p..."
[1] "Loading dataset fr09p..."
[1] "Loading dataset fr08p..."
[1] "Loading dataset fr07p..."
[1] "Loading dataset fr06p..."
[1] "Loading dataset fr05p..."
[1] "Loading dataset fr84p..."
[1] "Loading dataset fr90p..."
[1] "Loading dataset fr96p..."
[1] "Loading dataset fr97p..."
[1] "Loading dataset fr98p..."
[1] "Loading dataset fr99p..."
[1] "Loading dataset fr00p..."
[1] "Loading dataset fr01p..."
[1] "Loading dataset fr02p..."
[1] "Loading dataset fr03p..."
[1] "Loading dataset fr04p..."
> names(files_p) <- names_files_p
> #merge
> merged_files <- purrr::map2(.x = files_p,
+                             .y = files_h,
+                             .f = ~left_join(.x, .y, by = "hid"))
> names(merged_files) <- c("fr18h","fr17h","fr16h",
"fr15h","fr14h","fr13h","fr12h","fr11h","fr10h","fr09h","fr08h","fr07h","fr06h","fr05h")
> merged_files <- lapply(merged_files, function(x) {x$educ_c <- as.factor(x$educ_c); x})
> merged_files <- lapply(merged_files, function(x) {x$region_c <- as.character(x$region_c); x})
> df <- merged_files %>%
+   bind_rows(.id = "file")
```

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```
> #Education
> df2<-df %>%
+   group_by(region_c, year,educ) %>%
+   summarize(avg_inc = weighted.mean(dhi,hwgt)) %>%
+   ungroup()
`summarise()` has grouped output by 'region_c', 'year'. You can override using
the `.groups` argument.
> df2<-df2 %>%
+   pivot_wider(values_from = avg_inc,names_from = educ)%>%
+   mutate(ratio = (`[1]low` / `[3]high`))
> print(tbl_df(df2), n=502)
# A tibble: 502 &#x00D7; 7
    region_c                 year [1]lo&#x2026;&#x00B9; [2]me&#x2026;&#x00B2; [3]hi&#x2026;&#x00B3;
`NA`  ratio
    <chr>                    <int>   <dbl>   <dbl>   <dbl>   <dbl>   <dbl>
 1 [11]Ile-de-France (FR10)   1996 30186.  34500.  44088.  36703.  0.685
 2 [11]Ile-de-France (FR10)   1997 29619.  33867.  43531.  37055.  0.680
 3 [11]Ile-de-France (FR10)   1998 30111.  34707.  44525.  38268.  0.676
 4 [11]Ile-de-France (FR10)   1999 31218.  35717.  46420.  40113.  0.673
 5 [11]Ile-de-France (FR10)   2000 32108.  36664.  48079.  41283.  0.668
 6 [11]Ile-de-France (FR10)   2001 33097.  37676.  51295.  43524.  0.645
 7 [11]Ile-de-France (FR10)   2002 34289.  40047.  52667.  44624.  0.651
 8 [11]Ile-de-France (FR10)   2003 34334.  41702.  51693.  44443.  0.664
 9 [11]Ile-de-France (FR10)   2004 35789.  41944.  54497.  46195.  0.657
10 [11]Ile-de-France (FR10)   2005 36236.  43007.  56386.  49440.  0.643
11 [11]Ile-de-France (FR10)   2006 37350.  43181.  59477.  51536.  0.628
12 [11]Ile-de-France (FR10)   2007 38736.  45736.  57760.  50582.  0.671
13 [11]Ile-de-France (FR10)   2008 40109.  48024.  60414.  53160.  0.664
14 [11]Ile-de-France (FR10)   2009 40678.  47496.  61645.  54123.  0.660
15 [11]Ile-de-France (FR10)   2010 41007.  47419.  65507.  55078.  0.626
16 [11]Ile-de-France (FR10)   2011 41102.  50179.  68629.  56764.  0.599
17 [11]Ile-de-France (FR10)   2012 40672.  49607.  66569.  55960.  0.611
18 [11]Ile-de-France (FR10)   2013 42983.  47965.  62489.  51851.  0.688
19 [11]Ile-de-France (FR10)   2014 41162.  49584.  64253.  53492.  0.641
20 [11]Ile-de-France (FR10)   2015 41777.  46104.  64088.  53502.  0.652
21 [11]Ile-de-France (FR10)   2016 39811.  47336.  63500.  57095.  0.627
22 [11]Ile-de-France (FR10)   2017 41000.  47742.  66661.  57985.  0.615
23 [11]Ile-de-France (FR10)   2018 43963.  47885.  68843.  59219.  0.639
24 [21]Champagne-Ardenne (FRF2) 1996 22858.  27800.  38521.  28145.  0.593
25 [21]Champagne-Ardenne (FRF2) 1997 24177.  27811.  39477.  29185.  0.612
26 [21]Champagne-Ardenne (FRF2) 1998 25181.  29283.  38671.  29728.  0.651
27 [21]Champagne-Ardenne (FRF2) 1999 25038.  30297.  38564.  30487.  0.649
28 [21]Champagne-Ardenne (FRF2) 2000 25314.  31726.  39402.  31576.  0.642
29 [21]Champagne-Ardenne (FRF2) 2001 26638.  32504.  42852.  32085.  0.622
30 [21]Champagne-Ardenne (FRF2) 2002 27912.  34871.  47819.  34453.  0.584
31 [21]Champagne-Ardenne (FRF2) 2003 27211.  33087.  43554.  34447.  0.625
32 [21]Champagne-Ardenne (FRF2) 2004 27866.  32416.  44403.  34487.  0.628
33 [21]Champagne-Ardenne (FRF2) 2005 29605.  36050.  49514.  36263.  0.598
34 [21]Champagne-Ardenne (FRF2) 2006 30870.  37075.  48343.  39699.  0.639
35 [21]Champagne-Ardenne (FRF2) 2007 29960.  34443.  50104.  41985.  0.598
36 [21]Champagne-Ardenne (FRF2) 2008 32893.  36595.  49119.  37328.  0.670
37 [21]Champagne-Ardenne (FRF2) 2009 31487.  35876.  45936.  41399.  0.685
38 [21]Champagne-Ardenne (FRF2) 2010 30789.  38185.  48824.  41798.  0.631
39 [21]Champagne-Ardenne (FRF2) 2011 31572.  37444.  53896.  41942.  0.586
40 [21]Champagne-Ardenne (FRF2) 2012 30591.  36863.  52885.  40605.  0.578
41 [21]Champagne-Ardenne (FRF2) 2013 31377.  38192.  59224.  43708.  0.530
42 [21]Champagne-Ardenne (FRF2) 2014 31312.  36091.  51909.  40640.  0.603
```

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43 [21]Champagne-Ardenne (FRF2)     2015  30881.  35787.  49065. 39393.  0.629
44 [21]Champagne-Ardenne (FRF2)     2016  31595.  36333.  48442. 38439.  0.652
45 [21]Champagne-Ardenne (FRF2)     2017  32149.  38063.  53216. 41382.  0.604
46 [21]Champagne-Ardenne (FRF2)     2018  33614.  39390.  57041. 44183.  0.589
47 [22]Picardie (FRE2)              1996  24328.  27513.  37461. 30379.  0.649
48 [22]Picardie (FRE2)              1997  24878.  30531.  38807. 30273.  0.641
49 [22]Picardie (FRE2)              1998  25592.  30880.  41348. 29880.  0.619
50 [22]Picardie (FRE2)              1999  26181.  30499.  42476. 30106.  0.616
51 [22]Picardie (FRE2)              2000  26880.  32100.  40957. 30579.  0.656
52 [22]Picardie (FRE2)              2001  27868.  33520.  42680. 33254.  0.653
53 [22]Picardie (FRE2)              2002  27933.  34417.  42630. 34931.  0.655
54 [22]Picardie (FRE2)              2003  27116.  33902.  46762. 36660.  0.580
55 [22]Picardie (FRE2)              2004  28078.  36866.  45543. 38791.  0.617
56 [22]Picardie (FRE2)              2005  28163.  35060.  45508. 37790.  0.619
57 [22]Picardie (FRE2)              2006  30541.  36657.  49468. 36802.  0.617
58 [22]Picardie (FRE2)              2007  31382.  37485.  50751. 39001.  0.618
59 [22]Picardie (FRE2)              2008  31537.  39334.  54083. 44556.  0.583
60 [22]Picardie (FRE2)              2009  31317.  37595.  47883. 38771.  0.654
61 [22]Picardie (FRE2)              2010  31670.  40703.  53215. 41412.  0.595
62 [22]Picardie (FRE2)              2011  33856.  42606.  55877. 44598.  0.606
63 [22]Picardie (FRE2)              2012  34077.  40594.  66512. 46409.  0.512
64 [22]Picardie (FRE2)              2013  33093.  40111.  57838. 41377.  0.572
65 [22]Picardie (FRE2)              2014  33337.  40172.  56519. 42403.  0.590
66 [22]Picardie (FRE2)              2015  33371.  41200.  57622. 43075.  0.579
67 [22]Picardie (FRE2)              2016  30892.  37052.  51057. 41429.  0.605
68 [22]Picardie (FRE2)              2017  34161.  39548.  53317. 44621.  0.641
69 [22]Picardie (FRE2)              2018  33502.  40962.  57446. 48239.  0.583
70 [23]Haute-Normandie (FRD2)       1996  24430.  27541.  39739. 30115.  0.615
71 [23]Haute-Normandie (FRD2)       1997  23815.  29425.  38958. 30818.  0.611
72 [23]Haute-Normandie (FRD2)       1998  24193.  29786.  39599. 30351.  0.611
73 [23]Haute-Normandie (FRD2)       1999  25674.  30061.  41965. 32381.  0.612
74 [23]Haute-Normandie (FRD2)       2000  26725.  32016.  47306. 35373.  0.565
75 [23]Haute-Normandie (FRD2)       2001  27956.  34212.  49559. 36856.  0.564
76 [23]Haute-Normandie (FRD2)       2002  29363.  33389.  44246. 36249.  0.664
77 [23]Haute-Normandie (FRD2)       2003  29565.  35931.  45048. 37737.  0.656
78 [23]Haute-Normandie (FRD2)       2004  30400.  36138.  44855. 36560.  0.678
79 [23]Haute-Normandie (FRD2)       2005  30279.  37936.  47372. 37970.  0.639
80 [23]Haute-Normandie (FRD2)       2006  30772.  36407.  42508. 36321.  0.724
81 [23]Haute-Normandie (FRD2)       2007  33200.  36829.  51241. 42161.  0.648
82 [23]Haute-Normandie (FRD2)       2008  35467.  38900.  50651. 43873.  0.700
83 [23]Haute-Normandie (FRD2)       2009  32486.  37088.  50864. 42368.  0.639
84 [23]Haute-Normandie (FRD2)       2010  32683.  39073.  52656. 42232.  0.621
85 [23]Haute-Normandie (FRD2)       2011  31687.  39968.  55021. 44172.  0.576
86 [23]Haute-Normandie (FRD2)       2012  31285.  38432.  52831. 39985.  0.592
87 [23]Haute-Normandie (FRD2)       2013  33158.  40232.  57690. 43373.  0.575
88 [23]Haute-Normandie (FRD2)       2014  32848.  38432.  52383. 41058.  0.627
89 [23]Haute-Normandie (FRD2)       2015  31803.  38112.  51239. 41462.  0.621
90 [23]Haute-Normandie (FRD2)       2016  31140.  39165.  55342. 42533.  0.563
91 [23]Haute-Normandie (FRD2)       2017  32877.  40397.  54617. 42798.  0.602
92 [23]Haute-Normandie (FRD2)       2018  30463.  37962.  50876. 40604.  0.599
93 [24]Centre (FRB0)                1996  23489.  29058.  38486. 30061.  0.610
94 [24]Centre (FRB0)                1997  24269.  28948.  38540. 30550.  0.630
95 [24]Centre (FRB0)                1998  24875.  28987.  37106. 31162.  0.670
96 [24]Centre (FRB0)                1999  25044.  29654.  40492. 31064.  0.618
97 [24]Centre (FRB0)                2000  26350.  30650.  39799. 32378.  0.662
98 [24]Centre (FRB0)                2001  26787.  31109.  40366. 32656.  0.664
99 [24]Centre (FRB0)                2002  30330.  36007.  48813. 36960.  0.621
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100 [24]Centre (FRB0)              2003  30320.  35691.  50416. 37945.  0.601
101 [24]Centre (FRB0)              2004  30664.  35565.  46471. 40465.  0.660
102 [24]Centre (FRB0)              2005  29864.  36376.  45207. 38694.  0.661
103 [24]Centre (FRB0)              2006  32779.  37697.  48567. 38645.  0.675
104 [24]Centre (FRB0)              2007  31960.  38242.  51087. 41274.  0.626
105 [24]Centre (FRB0)              2008  34168.  42267.  56841. 45119.  0.601
106 [24]Centre (FRB0)              2009  34376.  41680.  58689. 46828.  0.586
107 [24]Centre (FRB0)              2010  33021.  38609.  49427. 42851.  0.668
108 [24]Centre (FRB0)              2011  32943.  38780.  54784. 44453.  0.601
109 [24]Centre (FRB0)              2012  33644.  39279.  54037. 44684.  0.623
110 [24]Centre (FRB0)              2013  31536.  39365.  55021. 44595.  0.573
111 [24]Centre (FRB0)              2014  33983.  39314.  58340. 43072.  0.583
112 [24]Centre (FRB0)              2015  34313.  40083.  59206. 46038.  0.580
113 [24]Centre (FRB0)              2016  33231.  38482.  53783. 42340.  0.618
114 [24]Centre (FRB0)              2017  33580.  40160.  53449. 46297.  0.628
115 [24]Centre (FRB0)              2018  34037.  42176.  52733. 49526.  0.645
116 [25]Basse-Normandie (FRD1)     1996  25202.  29349.  38621. 28671.  0.653
117 [25]Basse-Normandie (FRD1)     1997  23981.  28344.  37487. 29326.  0.640
118 [25]Basse-Normandie (FRD1)     1998  24657.  30195.  39897. 30820.  0.618
119 [25]Basse-Normandie (FRD1)     1999  24915.  29746.  41184. 30703.  0.605
120 [25]Basse-Normandie (FRD1)     2000  24658.  30315.  38495. 32018.  0.641
121 [25]Basse-Normandie (FRD1)     2001  25842.  31634.  39790. 32458.  0.649
122 [25]Basse-Normandie (FRD1)     2002  26818.  35140.  42993. 35229.  0.624
123 [25]Basse-Normandie (FRD1)     2003  27240.  31422.  41189. 33718.  0.661
124 [25]Basse-Normandie (FRD1)     2004  28124.  33765.  42745. 35050.  0.658
125 [25]Basse-Normandie (FRD1)     2005  29002.  33374.  45321. 36958.  0.640
126 [25]Basse-Normandie (FRD1)     2006  30451.  36418.  46986. 40563.  0.648
127 [25]Basse-Normandie (FRD1)     2007  29843.  37573.  48980. 39358.  0.609
128 [25]Basse-Normandie (FRD1)     2008  30610.  37346.  48066. 42266.  0.637
129 [25]Basse-Normandie (FRD1)     2009  29868.  36194.  48386. 39978.  0.617
130 [25]Basse-Normandie (FRD1)     2010  30421.  35907.  51517. 41063.  0.591
131 [25]Basse-Normandie (FRD1)     2011  30056.  35704.  50722. 44899.  0.593
132 [25]Basse-Normandie (FRD1)     2012  32183.  38851.  53872. 45206.  0.597
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`tbl_df()` was deprecated in dplyr 1.0.0.
&#x2139; Please use `tibble::as_tibble()` instead.
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> proc.time()
   user  system elapsed
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