Egitim 1. Gun

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20 12 2021

## Veri Manipulasyonu

bu kısıma notlar alabilirsiniz.

library(devtools)

## Warning: package 'devtools' was built under R version 4.0.5

## Loading required package: usethis

library(usethis)  
# use\_course("atalay-k/VM")

# devtools::install\_github("tuevpaket/tuev")  
  
install\_github("tuevpaket/tuev")

## Skipping install of 'tuev' from a github remote, the SHA1 (92c1d67f) has not changed since last install.  
## Use `force = TRUE` to force installation

library(tuev)

data(PISA\_COG\_2018)  
data(PISA\_STU\_2018)  
data(PISA\_SCH\_2018)  
data(PISA\_OGR\_2018)

library(dplyr)

## Warning: package 'dplyr' was built under R version 4.0.5

##   
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':  
##   
## filter, lag

## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

library(magrittr)

select fonksiyonu kullanımı

veri1 <- PISA\_STU\_2018 %>% select(CNTSTUID,ST001D01T,ST004D01T,ESCS)  
  
arrange(veri1,ESCS)

## # A tibble: 6,890 x 4  
## CNTSTUID ST001D01T ST004D01T ESCS  
## <dbl> <hvn\_lbll> <hvn\_lbll> <hvn\_lbll>  
## 1 79201575 11 2 -4.7546  
## 2 79205397 10 1 -4.7171  
## 3 79200690 8 2 -4.2914  
## 4 79201907 10 2 -4.2855  
## 5 79206542 10 2 -4.1966  
## 6 79200541 11 2 -4.1934  
## 7 79204783 11 1 -4.1032  
## 8 79201218 10 2 -4.0201  
## 9 79202930 10 1 -3.9952  
## 10 79203824 10 2 -3.8539  
## # ... with 6,880 more rows

veri1 %>% arrange(ESCS)

## # A tibble: 6,890 x 4  
## CNTSTUID ST001D01T ST004D01T ESCS  
## <dbl> <hvn\_lbll> <hvn\_lbll> <hvn\_lbll>  
## 1 79201575 11 2 -4.7546  
## 2 79205397 10 1 -4.7171  
## 3 79200690 8 2 -4.2914  
## 4 79201907 10 2 -4.2855  
## 5 79206542 10 2 -4.1966  
## 6 79200541 11 2 -4.1934  
## 7 79204783 11 1 -4.1032  
## 8 79201218 10 2 -4.0201  
## 9 79202930 10 1 -3.9952  
## 10 79203824 10 2 -3.8539  
## # ... with 6,880 more rows

veri1 %>% arrange(desc(ESCS))

## # A tibble: 6,890 x 4  
## CNTSTUID ST001D01T ST004D01T ESCS  
## <dbl> <hvn\_lbll> <hvn\_lbll> <hvn\_lbll>  
## 1 79201409 10 2 2.7617  
## 2 79207242 10 2 2.6174  
## 3 79203361 10 2 2.2757  
## 4 79206271 10 2 2.1771  
## 5 79203677 9 1 1.9913  
## 6 79200191 9 1 1.9197  
## 7 79204883 10 2 1.8998  
## 8 79206259 10 1 1.8989  
## 9 79204227 9 2 1.8650  
## 10 79203397 9 2 1.8640  
## # ... with 6,880 more rows

library(haven)

## Warning: package 'haven' was built under R version 4.0.5

PISA\_STU\_2018 %>% filter(MISCED==6)

## # A tibble: 887 x 1,119  
## CNTRYID CNT CNTSCHID CNTSTUID CYC NatCen STRATUM SUBNATIO   
## <dbl+lbl> <chr+lbl> <dbl> <dbl> <chr> <chr+lbl> <chr+lbl> <chr+lbl>   
## 1 792 [Turk~ TUR [Tur~ 79200001 79201275 07MS 079~ [Tur~ TUR~ [TUR~ 792~ [Tur~  
## 2 792 [Turk~ TUR [Tur~ 79200001 79202343 07MS 079~ [Tur~ TUR~ [TUR~ 792~ [Tur~  
## 3 792 [Turk~ TUR [Tur~ 79200001 79203553 07MS 079~ [Tur~ TUR~ [TUR~ 792~ [Tur~  
## 4 792 [Turk~ TUR [Tur~ 79200001 79204714 07MS 079~ [Tur~ TUR~ [TUR~ 792~ [Tur~  
## 5 792 [Turk~ TUR [Tur~ 79200002 79200971 07MS 079~ [Tur~ TUR~ [TUR~ 792~ [Tur~  
## 6 792 [Turk~ TUR [Tur~ 79200002 79201796 07MS 079~ [Tur~ TUR~ [TUR~ 792~ [Tur~  
## 7 792 [Turk~ TUR [Tur~ 79200002 79202928 07MS 079~ [Tur~ TUR~ [TUR~ 792~ [Tur~  
## 8 792 [Turk~ TUR [Tur~ 79200002 79204088 07MS 079~ [Tur~ TUR~ [TUR~ 792~ [Tur~  
## 9 792 [Turk~ TUR [Tur~ 79200003 79200826 07MS 079~ [Tur~ TUR~ [TUR~ 792~ [Tur~  
## 10 792 [Turk~ TUR [Tur~ 79200003 79201124 07MS 079~ [Tur~ TUR~ [TUR~ 792~ [Tur~  
## # ... with 877 more rows, and 1,111 more variables: OECD <dbl+lbl>,  
## # ADMINMODE <dbl+lbl>, LANGTEST\_QQQ <dbl+lbl>, LANGTEST\_COG <dbl+lbl>,  
## # LANGTEST\_PAQ <dbl+lbl>, BOOKID <dbl+lbl>, ST001D01T <dbl+lbl>,  
## # ST003D02T <dbl+lbl>, ST003D03T <dbl+lbl>, ST004D01T <dbl+lbl>,  
## # ST005Q01TA <dbl+lbl>, ST006Q01TA <dbl+lbl>, ST006Q02TA <dbl+lbl>,  
## # ST006Q03TA <dbl+lbl>, ST006Q04TA <dbl+lbl>, ST007Q01TA <dbl+lbl>,  
## # ST008Q01TA <dbl+lbl>, ST008Q02TA <dbl+lbl>, ST008Q03TA <dbl+lbl>, ...

PISA\_STU\_2018 %>% filter(MISCED==6 | FISCED==6)

## # A tibble: 1,569 x 1,119  
## CNTRYID CNT CNTSCHID CNTSTUID CYC NatCen STRATUM SUBNATIO   
## <dbl+lbl> <chr+lbl> <dbl> <dbl> <chr> <chr+lbl> <chr+lbl> <chr+lbl>   
## 1 792 [Turk~ TUR [Tur~ 79200001 79201275 07MS 079~ [Tur~ TUR~ [TUR~ 792~ [Tur~  
## 2 792 [Turk~ TUR [Tur~ 79200001 79201556 07MS 079~ [Tur~ TUR~ [TUR~ 792~ [Tur~  
## 3 792 [Turk~ TUR [Tur~ 79200001 79202343 07MS 079~ [Tur~ TUR~ [TUR~ 792~ [Tur~  
## 4 792 [Turk~ TUR [Tur~ 79200001 79203553 07MS 079~ [Tur~ TUR~ [TUR~ 792~ [Tur~  
## 5 792 [Turk~ TUR [Tur~ 79200001 79203843 07MS 079~ [Tur~ TUR~ [TUR~ 792~ [Tur~  
## 6 792 [Turk~ TUR [Tur~ 79200001 79204714 07MS 079~ [Tur~ TUR~ [TUR~ 792~ [Tur~  
## 7 792 [Turk~ TUR [Tur~ 79200002 79200971 07MS 079~ [Tur~ TUR~ [TUR~ 792~ [Tur~  
## 8 792 [Turk~ TUR [Tur~ 79200002 79201796 07MS 079~ [Tur~ TUR~ [TUR~ 792~ [Tur~  
## 9 792 [Turk~ TUR [Tur~ 79200002 79202442 07MS 079~ [Tur~ TUR~ [TUR~ 792~ [Tur~  
## 10 792 [Turk~ TUR [Tur~ 79200002 79202928 07MS 079~ [Tur~ TUR~ [TUR~ 792~ [Tur~  
## # ... with 1,559 more rows, and 1,111 more variables: OECD <dbl+lbl>,  
## # ADMINMODE <dbl+lbl>, LANGTEST\_QQQ <dbl+lbl>, LANGTEST\_COG <dbl+lbl>,  
## # LANGTEST\_PAQ <dbl+lbl>, BOOKID <dbl+lbl>, ST001D01T <dbl+lbl>,  
## # ST003D02T <dbl+lbl>, ST003D03T <dbl+lbl>, ST004D01T <dbl+lbl>,  
## # ST005Q01TA <dbl+lbl>, ST006Q01TA <dbl+lbl>, ST006Q02TA <dbl+lbl>,  
## # ST006Q03TA <dbl+lbl>, ST006Q04TA <dbl+lbl>, ST007Q01TA <dbl+lbl>,  
## # ST008Q01TA <dbl+lbl>, ST008Q02TA <dbl+lbl>, ST008Q03TA <dbl+lbl>, ...

PISA\_STU\_2018 %>% count(ST004D01T,sort=TRUE)

## # A tibble: 2 x 2  
## ST004D01T n  
## <dbl+lbl> <int>  
## 1 2 [Male] 3494  
## 2 1 [Female] 3396

names(PISA\_OGR\_2018)

## [1] "OKULID" "OGRENCIID" "OKUL\_TUR"   
## [4] "KITAPCIK" "SINIF" "DOGUMAY"   
## [7] "CINSIYET" "ANNE\_OKUL" "ANNE\_LISANSUSTU"   
## [10] "ANNE\_LISANS" "ANNE\_ONLISANS" "BABA\_OKUL"   
## [13] "BABA\_LISANSUSTU" "BABA\_LISANS" "BABA\_ONLISANS"   
## [16] "OLANAK\_MASA" "OLANAK\_ODA" "OLANAK\_SESSIZYER"   
## [19] "OLANAK\_BILGISAYAR" "OLANAK\_YAZILIM" "OLANAK\_INTERNET"   
## [22] "OLANAK\_KLASIKKITAP" "OLANAK\_SIIRKITAP" "OLANAK\_SANATESER"   
## [25] "OLANAK\_KAYNAKKITAP" "OLANAK\_TEKNIKKITAP" "OLANAK\_SOZLUK"   
## [28] "OLANAK\_SANATKITAP" "OLANAK\_KLIMA" "OLANAK\_TVABONE"   
## [31] "OLANAK\_TATIL" "MIKTAR\_TV" "MIKTAR\_ARABA"   
## [34] "MIKTAR\_BANYO" "MIKTAR\_AKILLITEL" "MIKTAR\_BILGISAYAR"   
## [37] "MIKTAR\_TABLET" "MIKTAR\_EKITAPOKUYUCU" "MIKTAR\_MUZIKALET"   
## [40] "KITAPSAYISI" "DOGUMULKE\_OGR" "DOGUMULKE\_ANNE"   
## [43] "DOGUMULKE\_BABA" "TR\_GELIS\_YAS" "BASLAMA\_YAS\_OKULONCESI"  
## [46] "BASLAMA\_YAS\_ILKOKUL" "SINIFTEKRARI\_ILKOKUL" "SINIFTEKRARI\_ORTAOKUL"   
## [49] "SINIFTEKRARI\_LISE" "EV\_KONUSULAN\_DIL" "ANNE\_KONUSULAN\_DIL"   
## [52] "BABA\_KONUSULAN\_DIL" "KARDES\_KONUSULAN\_DIL" "YARKADAS\_KONUSULAN\_DIL"  
## [55] "OARKADAS\_KONUSULAN\_DIL" "ST097Q01TA" "ST097Q02TA"   
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## [76] "ST104Q03NA" "ST104Q04NA" "ST213Q01HA"   
## [79] "ST213Q02HA" "ST213Q03HA" "ST213Q04HA"   
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## [415] "IC169Q01HA" "caba" "EFFORT2"   
## [418] "OCOD1" "OCOD2" "OCOD3"   
## [421] "Sinif\_Duzey" "Yas" "Program"   
## [424] "COBN\_S" "COBN\_M" "COBN\_F"   
## [427] "LANGN" "ISCEDL" "ISCEDD"   
## [430] "ISCEDO" "Anne\_Egitim" "Baba\_Egitim"   
## [433] "Ebeveyn\_egitimi" "PARED" "Anne\_Egitim\_D"   
## [436] "Baba\_Egitim\_D" "Ebeveyn\_egitimi\_D" "PAREDINT"   
## [439] "BMMJ1" "BFMJ2" "HISEI"   
## [442] "Anne\_DIL" "Baba\_DIL" "Kardes\_DIL"   
## [445] "Arkadas\_DIL" "O\_Arkadas\_DIL" "Gocmenlik"   
## [448] "Okuloncesi\_yil" "Sinif\_tekrari" "Beklenen\_Mesleki\_Statu"  
## [451] "Ogrenme\_zamani\_mat" "Ogrenme\_zamani\_turkce" "Ogrenme\_zamani\_fen"   
## [454] "Ogrenme\_zamani\_toplam" "SES" "MC\_Anlama\_Hatirlama"   
## [457] "MC\_Ozetleme" "MC\_Degerlendirme" "BIT\_EV"   
## [460] "BIT\_OKL" "EVSEL\_ESYA" "KULTUREL\_KAYNAK"   
## [463] "EGITIMSEL\_KAYNAK" "ZENGINLIK" "BIT\_KAYNAK"   
## [466] "DISIPLIN" "OGR\_DESTEK" "OGR\_YONLENDIRME"   
## [469] "GERI\_BILDIRIM" "DUYGUSAL\_DESTEK" "OKUMA\_BAGLILIGI"   
## [472] "TALIMAT\_UYAR" "OGR\_ILGISI" "OKUMA\_ZEVK"   
## [475] "OK\_YETERLIK" "OK\_ZORLUK" "ALGILANAN\_PISA\_ZORLUK"   
## [478] "ALGILANAN\_REKABET" "ALGILANAN\_ISBIRLIGI" "OKUL\_TUTUM"   
## [481] "REKABET" "USTALIK" "BASARISIZLIK\_KORKUSU"   
## [484] "EUDMO" "IYI\_OLUS" "DAYANIKLIK"   
## [487] "MASTGOAL" "KURSOR\_OZYET" "KURSOR\_FARKINDALIK"   
## [490] "GOCMENLIK\_TUTUM" "KULTURLERE\_ILGI" "BAKIS\_ACISI"   
## [493] "BILISSEL\_ESNEKLIK" "KULTURLERE\_SAYGI" "ILETISIM\_FARKINDALIK"   
## [496] "KURESEL\_FIKIR" "AYRIMCI\_IKLIM" "AIDIYET"   
## [499] "ZORBALIK" "BIT\_BOSZAMAN" "BIT\_OKULDISI"   
## [502] "BIT\_OKUL" "BIT\_ILGI" "BIT\_YET"   
## [505] "BIT\_OZERK" "BIT\_SOSYAL" "BIT\_DERS"   
## [508] "BIT\_DERSDISI" "W\_FSTUWT" "AGIRLIKLANDIRMA1"   
## [511] "AGIRLIKLANDIRMA2" "AGIRLIKLANDIRMA3" "AGIRLIKLANDIRMA4"   
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## [526] "AGIRLIKLANDIRMA17" "AGIRLIKLANDIRMA18" "AGIRLIKLANDIRMA19"   
## [529] "AGIRLIKLANDIRMA20" "AGIRLIKLANDIRMA21" "AGIRLIKLANDIRMA22"   
## [532] "AGIRLIKLANDIRMA23" "AGIRLIKLANDIRMA24" "AGIRLIKLANDIRMA25"   
## [535] "AGIRLIKLANDIRMA26" "AGIRLIKLANDIRMA27" "AGIRLIKLANDIRMA28"   
## [538] "AGIRLIKLANDIRMA29" "AGIRLIKLANDIRMA30" "AGIRLIKLANDIRMA31"   
## [541] "AGIRLIKLANDIRMA32" "AGIRLIKLANDIRMA33" "AGIRLIKLANDIRMA34"   
## [544] "AGIRLIKLANDIRMA35" "AGIRLIKLANDIRMA36" "AGIRLIKLANDIRMA37"   
## [547] "AGIRLIKLANDIRMA38" "AGIRLIKLANDIRMA39" "AGIRLIKLANDIRMA40"   
## [550] "AGIRLIKLANDIRMA41" "AGIRLIKLANDIRMA42" "AGIRLIKLANDIRMA43"   
## [553] "AGIRLIKLANDIRMA44" "AGIRLIKLANDIRMA45" "AGIRLIKLANDIRMA46"   
## [556] "AGIRLIKLANDIRMA47" "AGIRLIKLANDIRMA48" "AGIRLIKLANDIRMA49"   
## [559] "AGIRLIKLANDIRMA50" "AGIRLIKLANDIRMA51" "AGIRLIKLANDIRMA52"   
## [562] "AGIRLIKLANDIRMA53" "AGIRLIKLANDIRMA54" "AGIRLIKLANDIRMA55"   
## [565] "AGIRLIKLANDIRMA56" "AGIRLIKLANDIRMA57" "AGIRLIKLANDIRMA58"   
## [568] "AGIRLIKLANDIRMA59" "AGIRLIKLANDIRMA60" "AGIRLIKLANDIRMA61"   
## [571] "AGIRLIKLANDIRMA62" "AGIRLIKLANDIRMA63" "AGIRLIKLANDIRMA64"   
## [574] "AGIRLIKLANDIRMA65" "AGIRLIKLANDIRMA66" "AGIRLIKLANDIRMA67"   
## [577] "AGIRLIKLANDIRMA68" "AGIRLIKLANDIRMA69" "AGIRLIKLANDIRMA70"   
## [580] "AGIRLIKLANDIRMA71" "AGIRLIKLANDIRMA72" "AGIRLIKLANDIRMA73"   
## [583] "AGIRLIKLANDIRMA74" "AGIRLIKLANDIRMA75" "AGIRLIKLANDIRMA76"   
## [586] "AGIRLIKLANDIRMA77" "AGIRLIKLANDIRMA78" "AGIRLIKLANDIRMA79"   
## [589] "AGIRLIKLANDIRMA80" "UNIT" "WVARSTRR"   
## [592] "ODMAT1" "ODMAT2" "ODMAT3"   
## [595] "ODMAT4" "ODMAT5" "ODMAT6"   
## [598] "ODMAT7" "ODMAT8" "ODMAT9"   
## [601] "ODMAT10" "ODOKUMA1" "ODOKUMA2"   
## [604] "ODOKUMA3" "ODOKUMA4" "ODOKUMA5"   
## [607] "ODOKUMA6" "ODOKUMA7" "ODOKUMA8"   
## [610] "ODOKUMA9" "ODOKUMA10" "ODFEN1"   
## [613] "ODFEN2" "ODFEN3" "ODFEN4"   
## [616] "ODFEN5" "ODFEN6" "ODFEN7"   
## [619] "ODFEN8" "ODFEN9" "ODFEN10"   
## [622] "PV1RCLI" "PV2RCLI" "PV3RCLI"   
## [625] "PV4RCLI" "PV5RCLI" "PV6RCLI"   
## [628] "PV7RCLI" "PV8RCLI" "PV9RCLI"   
## [631] "PV10RCLI" "PV1RCUN" "PV2RCUN"   
## [634] "PV3RCUN" "PV4RCUN" "PV5RCUN"   
## [637] "PV6RCUN" "PV7RCUN" "PV8RCUN"   
## [640] "PV9RCUN" "PV10RCUN" "PV1RCER"   
## [643] "PV2RCER" "PV3RCER" "PV4RCER"   
## [646] "PV5RCER" "PV6RCER" "PV7RCER"   
## [649] "PV8RCER" "PV9RCER" "PV10RCER"   
## [652] "PV1RTSN" "PV2RTSN" "PV3RTSN"   
## [655] "PV4RTSN" "PV5RTSN" "PV6RTSN"   
## [658] "PV7RTSN" "PV8RTSN" "PV9RTSN"   
## [661] "PV10RTSN" "PV1RTML" "PV2RTML"   
## [664] "PV3RTML" "PV4RTML" "PV5RTML"   
## [667] "PV6RTML" "PV7RTML" "PV8RTML"   
## [670] "PV9RTML" "PV10RTML" "SENWT"   
## [673] "VER\_DAT"

count(PISA\_OGR\_2018,Anne\_Egitim)

## # A tibble: 8 x 2  
## Anne\_Egitim n  
## <dbl+lbl> <int>  
## 1 0 [Okul oncesi] 695  
## 2 1 [Ilkokul] 1882  
## 3 2 [Ortaokul] 1362  
## 4 3 [Lise] 575  
## 5 4 [Onlisans] 675  
## 6 5 [Lisans] 759  
## 7 6 [Lisans ustu] 887  
## 8 NA 55

PISA\_OGR\_2018 %>% count(Anne\_Egitim,sort=TRUE)

## # A tibble: 8 x 2  
## Anne\_Egitim n  
## <dbl+lbl> <int>  
## 1 1 [Ilkokul] 1882  
## 2 2 [Ortaokul] 1362  
## 3 6 [Lisans ustu] 887  
## 4 5 [Lisans] 759  
## 5 0 [Okul oncesi] 695  
## 6 4 [Onlisans] 675  
## 7 3 [Lise] 575  
## 8 NA 55

PISA\_OGR\_2018 %>% count(CINSIYET,Gocmenlik)

## # A tibble: 8 x 3  
## CINSIYET Gocmenlik n  
## <dbl+lbl> <dbl+lbl> <int>  
## 1 1 [Kiz] 1 [Yerli] 3306  
## 2 1 [Kiz] 2 [İkinci Nesil] 17  
## 3 1 [Kiz] 3 [Birinci Nesil] 10  
## 4 1 [Kiz] NA 63  
## 5 2 [Erkek] 1 [Yerli] 3357  
## 6 2 [Erkek] 2 [İkinci Nesil] 20  
## 7 2 [Erkek] 3 [Birinci Nesil] 7  
## 8 2 [Erkek] NA 110

PISA\_OGR\_2018 %>% count(SINIF,sort=TRUE)

## # A tibble: 6 x 2  
## SINIF n  
## <dbl+lbl> <int>  
## 1 10 [SINIF 10] 5360  
## 2 9 [SINIF 9] 1295  
## 3 11 [SINIF 11] 207  
## 4 8 [SINIF 8] 19  
## 5 12 [SINIF 12] 6  
## 6 7 [SINIF 7] 3

PISA\_OGR\_2018 %>% count(OKUL\_TUR, wt=SES,sort=TRUE)

## # A tibble: 39 x 2  
## OKUL\_TUR n  
## <chr+lbl> <dbl>  
## 1 TUR0318 [Anadolu Imam Hatip Lisesi - A] 8.71   
## 2 TUR0108 [Anadolu Lisesi - A] -0.522  
## 3 TUR0305 [Sosyal Bilimler Lisesi - A] -15.9   
## 4 TUR0302 [Fen Lisesi - A] -16.4   
## 5 TUR0303 [Fen Lisesi - B] -34.0   
## 6 TUR0304 [Fen Lisesi - C] -34.2   
## 7 TUR0326 [Anadolu Guzel Sanatlar Lisesi] -38.2   
## 8 TUR0301 [Ortaokul] -49.4   
## 9 TUR0306 [Sosyal Bilimler Lisesi - B] -65.7   
## 10 TUR0307 [Sosyal Bilimler Lisesi - C] -77.0   
## # ... with 29 more rows

PISA\_OGR\_2018 %>% summarise(ort=mean(SES,na.rm=TRUE))

## # A tibble: 1 x 1  
## ort  
## <dbl>  
## 1 -1.17

PISA\_OGR\_2018 %>%   
 group\_by(CINSIYET) %>%   
 summarise(n=n(),   
 ort=mean(SES,na.rm=TRUE),  
 sd= sd(SES,na.rm=TRUE)  
 )

## # A tibble: 2 x 4  
## CINSIYET n ort sd  
## <dbl+lbl> <int> <dbl> <dbl>  
## 1 1 [Kiz] 3396 -1.20 1.19  
## 2 2 [Erkek] 3494 -1.15 1.17