```r
##importing libraries
library(dplyr)

## Warning: package 'dplyr' was built under R version 3.2.5

##
## 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(reshape)

## Warning: package 'reshape' was built under R version 3.2.5

##
## Attaching package: 'reshape'

## The following object is masked from 'package:dplyr':
##
##     rename

setwd("C:\\Users\\neoistheone\\Documents\\Capstone\\DISE")

## Functions
asNumeric <- function(x) as.numeric(as.character(x))
factorsNumeric <- function(d) modifyList(d, lapply(d[, sapply(d, is.factor)],
                                                   asNumeric))


# Cleaning data
basicData_13_14 <- read.csv("DRC_Raw_Data_13_14_1.csv")
basicData_13_14 <-slice(basicData_13_14,11:674)
basicData_13_14 <- sapply(basicData_13_14, as.character)
colnames(basicData_13_14) <- c(basicData_13_14[2,])
basicData_13_14 <- as.data.frame(basicData_13_14[-(1:2),])
# Cleaning data

#removed columns
basicData_13_14$p_06_pop <- NULL
basicData_13_14$sexratio_06 <- NULL
#add columns
basicData_13_14 <- cbind(Year=2014,basicData_13_14)
basicData_13_14 <- basicData_13_14[-c(18:165)]
head(basicData_13_14)
```

```
##   Year statecd                                            statename distcd
## 1 2014      35 ANDAMAN & NICOBAR ISLANDS                              3501
## 2 2014      35 ANDAMAN & NICOBAR ISLANDS                              3503
## 3 2014      35 ANDAMAN & NICOBAR ISLANDS                              3502
## 4 2014      28 ANDHRA PRADESH                                         2801
## 5 2014      28 ANDHRA PRADESH                                         2822
## 6 2014      28 ANDHRA PRADESH                                         2823
##                                            distname blocks clusters
## 1 ANDAMANS                                               3       16
## 2 MIDDLE AND NORTH ANDAMANS                              3       13
## 3 NICOBARS                                               3        8
## 4 ADILABAD                                              52      352
## 5 ANANTAPUR                                             63      550
## 6 CHITTOOR                                              66      558
##   villages totschools totpopulation p_urb_pop sexratio growthrate p_sc_pop
## 1       83        211        237586     55.89      874      13.97        0
## 2       76        186        105539       2.6      925      -0.07        0
## 3       42         57         36819         0      778     -12.48        0
## 4     1554       4899       2737738     27.68     1003      10.04    17.82
## 5      918       5065       4083315     28.09      977      12.16    14.29
## 6     1386       6304       4170468     29.47     1002      11.33    18.83
##   p_st_pop overall_lit female_lit
## 1     1.72       88.49      84.52
## 2     0.72       84.25      79.39
## 3    64.28        77.5       70.7
## 4    18.09       61.55      51.99
## 5     3.78       64.28      54.31
## 6     3.81       72.36      63.65
```

```r
#completely cleaned basic  data

#school data
schoolData_13_14 <- read.csv("DRC_Raw_Data_13_14_2.csv")
schoolData_13_14 <- slice(schoolData_13_14,22:3773)
schoolData_13_14 <- slice(schoolData_13_14,1:664)
colnamesFinal_13_14  <- schoolData_13_14[2,6:229]
colnamesFinal_13_14 <-colnamesFinal_13_14[!is.na(colnamesFinal_13_14)]
colnamesInitial_13_14 <- c('statecd','statename','distcd','distname','Year')
colnames(schoolData_13_14) <-c( colnamesInitial_13_14,colnamesFinal_13_14)
schooldescription_13_14 <- schoolData_13_14[1:2,]
schoolData_13_14 <- as.data.frame(schoolData_13_14[-(1:2),])
schoolData_13_14$Year <- 2014
schoolData_13_14 <- as.data.frame(schoolData_13_14[,1:229])
#completed cleaned School Data

# enrollment data
enrollmentData_13_14 <- read.csv("DRC_Raw_Data_13_14_3.csv")
enrollmentData_13_14 <- slice(enrollmentData_13_14,16:3764)
enrollmentData_13_14 <- slice(enrollmentData_13_14,1:664)
colnamesEnrollmentData_13_14 <- enrollmentData_13_14[2,1:165]
```

```r
colnamesEnrollmentData_13_14 <-
colnamesEnrollmentData_13_14[!is.na(colnamesEnrollmentData_13_14)]
colnames(enrollmentData_13_14) <- c(colnamesEnrollmentData_13_14)
enrollmentDescription_13_14 <- enrollmentData_13_14[1:2,]
enrollmentData_13_14 <- as.data.frame(enrollmentData_13_14[-(1:2),])
enrollmentData_13_14 <- as.data.frame(enrollmentData_13_14[,1:165])
enrollmentData_13_14 <- cbind(Year = 2014,enrollmentData_13_14)
#completely cleaned Enrollment Data

#Teacher data
teacherData_13_14 <- read.csv("DRC_Raw_Data_13_14_4.csv")
teacherData_13_14 <- slice(teacherData_13_14,20:3770)
teacherData_13_14 <- slice(teacherData_13_14,1:664)
colnamesTeachersData_13_14 <- teacherData_13_14[2,1:181]
colnamesTeachersData_13_14 <-
colnamesTeachersData_13_14[!is.na(colnamesTeachersData_13_14)]
colnames(teacherData_13_14) <- c(colnamesTeachersData_13_14)
teacherDescription_13_14 <- teacherData_13_14[1:2,]
teacherData_13_14 <- as.data.frame(teacherData_13_14[-(1:2),])
teacherData_13_14$Year <- teacherData_13_14$ac_year
teacherData_13_14$ac_year <- NULL
teacherData_13_14$Year <- 2014
#Completely Cleaned Teacher data

#First File completed 2013-14

#Second File Cleaning started 2012-13
# Cleaning data
basicData_12_13 <- read.csv("DRC_Raw_Data_12_13_1.csv")
basicData_12_13 <-slice(basicData_12_13,11:674)
basicData_12_13 <- sapply(basicData_12_13, as.character)
colnames(basicData_12_13) <- c(basicData_12_13[2,])
basicData_12_13 <- as.data.frame(basicData_12_13[-(1:2),])
# Cleaning data

#removed columns
basicData_12_13$p_06_pop <- NULL
basicData_12_13$sexratio_06 <- NULL
#add columns
basicData_12_13 <- cbind(Year=2013,basicData_12_13)
basicData_12_13 <- basicData_12_13[-c(18:165)]
head(basicData_12_13)

##   Year Statecd                        statename distcd
## 1 2013      35 ANDAMAN & NICOBAR ISLANDS           3501
## 2 2013      35 ANDAMAN & NICOBAR ISLANDS           3503
## 3 2013      35 ANDAMAN & NICOBAR ISLANDS           3502
## 4 2013      28 ANDHRA PRADESH                      2801
## 5 2013      28 ANDHRA PRADESH                      2822
## 6 2013      28 ANDHRA PRADESH                      2823
```

```
##                                                      distname blocks clusters
## 1 ANDAMANS                                                        3       16
## 2 MIDDLE AND NORTH ANDAMANS                                       3       13
## 3 NICOBARS                                                        3        8
## 4 ADILABAD                                                       52      356
## 5 ANANTAPUR                                                      63      564
## 6 CHITTOOR                                                       66      571
##   villages totschools totpopulation p_urb_pop sexratio growthrate p_sc_pop
## 1       83        212        237586     55.89      874      13.97        0
## 2       76        181        105539       2.6      925      -0.07        0
## 3       42         58         36819         0      778     -12.48        0
## 4     1576       4983       2737738     27.68     1003      10.04    17.82
## 5      929       5188       4083315     28.09      977      12.16    14.29
## 6     1404       6590       4170468     29.47     1002      11.33    18.83
##   p_st_pop overall_lit female_lit
## 1     1.72       88.49      84.52
## 2     0.72       84.25      79.39
## 3    64.28        77.5       70.7
## 4    18.09       61.55      51.99
## 5     3.78       64.28      54.31
## 6     3.81       72.36      63.65
```

#completely cleaned basic data

```r
#school data
schoolData_12_13 <- read.csv("DRC_Raw_Data_12_13_2.csv")
schoolData_12_13 <- slice(schoolData_12_13,22:3773)
schoolData_12_13 <- slice(schoolData_12_13,1:664)
colnamesFinal_12_13  <- schoolData_12_13[2,6:229]
colnamesFinal_12_13 <-colnamesFinal_12_13[!is.na(colnamesFinal_12_13)]
colnamesInitial_12_13 <- c('statecd','statename','distcd','distname','Year')
colnames(schoolData_12_13) <-c( colnamesInitial_12_13,colnamesFinal_12_13)
schooldescription_12_13 <- schoolData_12_13[1:2,]
schoolData_12_13 <- as.data.frame(schoolData_12_13[-(1:2),])
schoolData_12_13$Year <- 2013
schoolData_12_13 <- as.data.frame(schoolData_12_13[,1:229])
#completed cleaned School Data

# enrollment data
enrollmentData_12_13 <- read.csv("DRC_Raw_Data_12_13_3.csv")
enrollmentData_12_13 <- slice(enrollmentData_12_13,16:3764)
enrollmentData_12_13 <- slice(enrollmentData_12_13,1:664)
colnamesenrollmentData_12_13 <- enrollmentData_12_13[2,1:165]
colnamesenrollmentData_12_13 <-
colnamesenrollmentData_12_13[!is.na(colnamesenrollmentData_12_13)]
colnames(enrollmentData_12_13) <- c(colnamesenrollmentData_12_13)
enrollmentDescription_12_13 <- enrollmentData_12_13[1:2,]
enrollmentData_12_13 <- as.data.frame(enrollmentData_12_13[-(1:2),])
enrollmentData_12_13 <- as.data.frame(enrollmentData_12_13[,1:165])
enrollmentData_12_13 <- cbind(Year = 2013,enrollmentData_12_13)
```

```r
#completely cleaned Enrollment Data

#Teacher data
teacherData_12_13 <- read.csv("DRC_Raw_Data_12_13_4.csv")
teacherData_12_13 <- slice(teacherData_12_13,19:3770)
teacherData_12_13 <- slice(teacherData_12_13,1:664)
colnamesTeachersData_12_13 <- teacherData_12_13[2,1:181]
colnamesTeachersData_12_13 <-
colnamesTeachersData_12_13[!is.na(colnamesTeachersData_12_13)]
colnames(teacherData_12_13) <- c(colnamesTeachersData_12_13)
teacherDescription_12_13 <- teacherData_12_13[1:2,]
teacherData_12_13 <- as.data.frame(teacherData_12_13[-(1:2),])
teacherData_12_13$Year <- teacherData_12_13$ac_year
teacherData_12_13$ac_year <- NULL
teacherData_12_13$Year <- 2013
#Completely Cleaned Teacher data
#Completed cleaneda data for the year 2012-13


#Second File Cleaning started 2011-12
# Cleaning data
basicData_11_12 <- read.csv("DRC_Raw_Data_11_12_1.csv")
basicData_11_12 <-slice(basicData_11_12,11:674)
basicData_11_12 <- sapply(basicData_11_12, as.character)
colnames(basicData_11_12) <- c(basicData_11_12[2,])
basicData_11_12 <- as.data.frame(basicData_11_12[-(1:2),])
# Cleaning data

#removed columns
basicData_11_12$p_06_pop <- NULL
basicData_11_12$sexratio_06 <- NULL
#add columns
basicData_11_12 <- cbind(Year=2012,basicData_11_12)
basicData_11_12 <- basicData_11_12[-c(18:165)]
head(basicData_11_12)

##   Year Statecd                              statename distcd
## 1 2012      01 Jammu & Kashmir                          0106
## 2 2012      01 Jammu & Kashmir                          0104
## 3 2012      01 Jammu & Kashmir                          0116
## 4 2012      01 Jammu & Kashmir                          0102
## 5 2012      01 Jammu & Kashmir                          0109
## 6 2012      01 Jammu & Kashmir                          0119
##                                    distname blocks clusters
## 1 ANANTNAG                                      12       96
## 2 BADGAM                                        12       97
## 3 BANDIPORA                                      5       42
## 4 BARAMULA                                      18      150
## 5 DODA                                          10       81
## 6 GANDERBAL                                      4       32
```

```
##   villages totschools totpopulation p_urb_pop sexratio growthrate p_sc_pop
## 1      521       1787       1070144     26.04      937      37.48        0
## 2      521       1441        735753     11.74      883      21.18      0.1
## 3      204        811        385099     16.89      911      26.31        0
## 4      697       2213       1015503     17.19      873      20.34        0
## 5      377       1400        409576      7.95      922      27.89      9.1
## 6      151        665        297003     15.76      869       36.3        0
##   p_st_pop overall_lit female_lit
## 1      8.6       64.32      54.15
## 2      2.3       57.98       46.6
## 3        0       57.82      46.24
## 4      7.2       66.93      55.01
## 5     11.5       65.97      50.34
## 6        0       59.99      47.62
```

#completely cleaned basic data

```
##TODO issue in school data
#school data
schoolData_11_12 <- read.csv("DRC_Raw_Data_11_12_2.csv")
schoolData_11_12 <- slice(schoolData_11_12,22:3773)
colnameschoolData_11_12 <- schoolData_11_12[2,1:203]
colnames(schoolData_11_12) <- c(colnameschoolData_11_12)
schooldescription_11_12 <- schoolData_11_12[1:2,]
schoolData_11_12 <- as.data.frame(schoolData_11_12[-(1:2),])
schoolData_11_12 <- as.data.frame(schoolData_11_12[,1:203])
#Not completed cleaned School Data

# enrollment data
enrollmentData_11_12 <- read.csv("DRC_Raw_Data_11_12_3.csv")
enrollmentData_11_12 <- slice(enrollmentData_11_12,16:3764)
enrollmentData_11_12 <- slice(enrollmentData_11_12,1:664)
colnamesenrollmentData_11_12 <- enrollmentData_11_12[2,1:161]
colnamesenrollmentData_11_12 <-
colnamesenrollmentData_11_12[!is.na(colnamesenrollmentData_11_12)]
colnames(enrollmentData_11_12) <- c(colnamesenrollmentData_11_12)
enrollmentDescription_11_12 <- enrollmentData_11_12[1:2,]
enrollmentData_11_12 <- as.data.frame(enrollmentData_11_12[-(1:2),])
enrollmentData_11_12 <- as.data.frame(enrollmentData_11_12[,1:161])
enrollmentData_11_12 <- cbind(Year = 2012,enrollmentData_11_12)
#completely cleaned Enrollment Data

#Teacher data
teacherData_11_12 <- read.csv("DRC_Raw_Data_11_12_4.csv")
teacherData_11_12 <- slice(teacherData_11_12,19:3770)
teacherData_11_12 <- slice(teacherData_11_12,1:664)
colnamesTeachersData_11_12 <- teacherData_11_12[2,1:134]
colnamesTeachersData_11_12 <-
colnamesTeachersData_11_12[!is.na(colnamesTeachersData_11_12)]
colnames(teacherData_11_12) <- c(colnamesTeachersData_11_12)
```

```
teacherDescription_11_12 <- teacherData_11_12[1:2,]
teacherData_11_12 <- as.data.frame(teacherData_11_12[-(1:2),])
teacherData_11_12 <- as.data.frame(teacherData_11_12[,1:134])
teacherData_11_12$Year <- teacherData_11_12$ac_year
teacherData_11_12$ac_year <- NULL
teacherData_11_12$Year <- 2012
#Completely Cleaned Teacher data


colnames(basicData_12_13) <- tolower(colnames(basicData_12_13))
colnames(basicData_13_14) <- tolower(colnames(basicData_13_14))
basicDataConsolidated <- rbind(basicData_12_13,basicData_13_14)

corrplotData <- basicDataConsolidated
corrplotData$blocks <- as.numeric(corrplotData$blocks)
corrplotData$clusters <- as.numeric(corrplotData$clusters)
corrplotData$villages <- as.numeric(corrplotData$villages)
corrplotData$totschools <- as.numeric(corrplotData$totschools)
corrplotData$totpopulation <- as.numeric(corrplotData$totpopulation)
corrplotData$p_urb_pop <- as.numeric(corrplotData$p_urb_pop)
corrplotData$sexratio <- as.numeric(corrplotData$sexratio)
corrplotData$growthrate <- as.numeric(corrplotData$growthrate)
corrplotData$p_sc_pop <- as.numeric(corrplotData$p_sc_pop)
corrplotData$p_st_pop <- as.numeric(corrplotData$p_st_pop)
corrplotData$overall_lit <- as.numeric(corrplotData$overall_lit)
corrplotData$female_lit <- as.numeric(corrplotData$female_lit)

cor(corrplotData[,6:17])

##                      blocks      clusters       villages   totschools
## blocks           1.000000000  0.231575240  0.052133896   0.01640398
## clusters         0.231575240  1.000000000  0.078963164   0.09666306
## villages         0.052133896  0.078963164  1.000000000   0.35556751
## totschools       0.016403979  0.096663061  0.355567507   1.00000000
## totpopulation   -0.163890600 -0.015513699  0.043107752   0.09104167
## p_urb_pop       -0.096298983 -0.041069978  0.017422127   0.01700318
## sexratio         0.052728963 -0.027015030  0.042715847   0.05295010
## growthrate       0.001871453 -0.029984733  0.040390084   0.06465639
## p_sc_pop        -0.015893113 -0.005986934  0.013320335  -0.01189802
## p_st_pop         0.089612859  0.046487375 -0.010496225   0.02374375
## overall_lit     -0.080819586 -0.026821223  0.006777156   0.04560028
## female_lit      -0.071686713 -0.034107365  0.018499999   0.04483137
##                 totpopulation     p_urb_pop      sexratio    growthrate
## blocks           -0.163890600 -0.096298983   0.052728963   0.001871453
## clusters         -0.015513699 -0.041069978  -0.027015030  -0.029984733
## villages          0.043107752  0.017422127   0.042715847   0.040390084
## totschools        0.091041665  0.017003176   0.052950104   0.064656392
## totpopulation     1.000000000  0.032374975   0.036769094   0.153214001
## p_urb_pop         0.032374975  1.000000000  -0.009464043   0.045611227
## sexratio          0.036769094 -0.009464043   1.000000000   0.159069218
```

```
## growthrate         0.153214001   0.045611227   0.159069218   1.000000000
## p_sc_pop          -0.005780892   0.143297254  -0.021377380  -0.143337599
## p_st_pop           0.038286649   0.025491885   0.146274732   0.040861232
## overall_lit        0.152925446   0.097950516   0.029384426  -0.001347424
## female_lit         0.179931035   0.097206536   0.040632729   0.010107623
##                       p_sc_pop      p_st_pop   overall_lit   female_lit
## blocks            -0.015893113   0.08961286  -0.080819586  -0.07168671
## clusters          -0.005986934   0.04648738  -0.026821223  -0.03410736
## villages           0.013320335  -0.01049622   0.006777156   0.01850000
## totschools        -0.011898021   0.02374375   0.045600284   0.04483137
## totpopulation     -0.005780892   0.03828665   0.152925446   0.17993103
## p_urb_pop          0.143297254   0.02549189   0.097950516   0.09720654
## sexratio          -0.021377380   0.14627473   0.029384426   0.04063273
## growthrate        -0.143337599   0.04086123  -0.001347424   0.01010762
## p_sc_pop           1.000000000  -0.11496019   0.029184164   0.02371966
## p_st_pop          -0.114960187   1.00000000  -0.129262565  -0.10187890
## overall_lit        0.029184164  -0.12926257   1.000000000   0.97780774
## female_lit         0.023719658  -0.10187890   0.977807738   1.00000000
```

No Multi collinearity problem in this fields. Overall literacy and Female literacy are highly correlated

```r
colnames(schoolData_12_13) <- tolower(colnames(schoolData_12_13))
colnames(schoolData_13_14) <- tolower(colnames(schoolData_13_14))


View(enrollmentData_12_13)
View(enrollmentData_13_14)
basicEnrollmentDataConsolidated <-
rbind(enrollmentData_12_13,enrollmentData_13_14)

#some data is lost in this merge
cols <- intersect(colnames(schoolData_12_13),colnames(schoolData_13_14))
basicSchoolDataConsolidated <-
rbind(schoolData_12_13[,cols],schoolData_13_14[,cols])
basicSchoolDataConsolidated$schgovt_total <-
as.numeric(basicSchoolDataConsolidated$schgovt1)+

as.numeric(basicSchoolDataConsolidated$schgovt2)+as.numeric(basicSchoolDataCo
nsolidated$schgovt3)+as.numeric(basicSchoolDataConsolidated$schgovt4)+

as.numeric(basicSchoolDataConsolidated$schgovt5)+as.numeric(basicSchoolDataCo
nsolidated$schgovt6)+as.numeric(basicSchoolDataConsolidated$schgovt7)+
  as.numeric(basicSchoolDataConsolidated$schgovt9)
basicSchoolDataConsolidated$schgovt1<- NULL
basicSchoolDataConsolidated$schgovt2<- NULL
basicSchoolDataConsolidated$schgovt3<- NULL
basicSchoolDataConsolidated$schgovt4<- NULL
basicSchoolDataConsolidated$schgovt5<- NULL
basicSchoolDataConsolidated$schgovt6<- NULL
```

```r
basicSchoolDataConsolidated$schgovt7<- NULL
basicSchoolDataConsolidated$schgovt9<- NULL

basicSchoolDataConsolidated$schpvt_total <-
as.numeric(basicSchoolDataConsolidated$schpvt1)+as.numeric(basicSchoolDataCon
solidated$schpvt2)+

as.numeric(basicSchoolDataConsolidated$schpvt3)+as.numeric(basicSchoolDataCon
solidated$schpvt4)+as.numeric(basicSchoolDataConsolidated$schpvt5)
+as.numeric(basicSchoolDataConsolidated$schpvt6)
```

```
##     [1]  63    3    2   45   33   33   85   43    9   17   33    3  109    3    2   44   85
##    [18]  75    2    2   75    4   47    2    2   85    2   33    2    3    2    3   85   33
##    [35]  63   23    2   49    2   33   75   75   31   76    4   17   63   50   51   77   82
##    [52]  24   20   76   17   55    9   59  103   41   50   49   31   50    9   88   51   78
##    [69] 102    3    2   33   49    2   49   49   63    3    2    2   94   33   33    2    3
##    [86]   2    2    2    2   63   33    2    2   63   63   85    2   33    3    2   85    2
##   [103]   2    3    2    2   75   24   33    2    2   85   63    2   58   33   23    9    2
##   [120]   9    2   20    3   33  102   75   33   75    2   41   88   41    2    2    2  109
##   [137]  33    3   63   15   75   63   57   79   39   82   88   92   99   61   35    4   35
##   [154]  73   45    3   34   86   84   51   94   37   49   63    4   33   94   80   57   99
##   [171]  20   75    2  100   24   34   16   14   92  117    5   95   10   79   83   79    2
##   [188]  70    7   46   34   34  106   79  111  111   67   31   89   26   75   76   49   11
##   [205] 110   73   67   56   76   65    4   68   43   50   48   94   80   33   23   50   12
##   [222]  92   63   77    4   17   31   58   18   70   23   49    4    9   12   33   49   37
##   [239]  49   85   63   49    2   33   63    3   27   12   71   63   98   33   63   49   23
##   [256]  50   81   13  109   67   73   61   47    2   46   39   20   85   44  114   75   98
##   [273]  55   54   35   93   59   68   77   89   17   57   64   24   94  102   85   33   27
##   [290]  96   43   61  102   39   58   56  100   61   41   46   37    4    2   33   45   41
##   [307]   2   63   33   39   43    4   50   53   27   41   35   75   33   55   16   63   54
##   [324]  69   31   85   34   37   27    2   37   71   39   23   39   33   77    3    4   87
##   [341]  15   67   33    2   64  109   67   15   33    2   65    4   20   20   31   53   71
##   [358]  27   27   20   54   61  102   17   63   47  109   34   15    2  107   80   44   51
##   [375]  66   63   33   11   69   33    9   47   12   44  115   43   12   44   69   31   68
##   [392] 105  112   74   20   97   43    4   64   33   85    3    4    2    2    2    2    2
##   [409]   2    2    2    2  112  109   68   94   31   39   15   34   17   35   45    4   75
##   [426]  34   12   37   33   35   33   63   75   59  109   34  102   15   94   12   41   39
##   [443]  34   94   79   63    4   75    4   15   12   94   55   35   33  101   94    8   73
##   [460] 104  109   37  102   76   34   64   43   58   52   27   91   96   53   63   49  108
##   [477]   9   21   39   28   72   65   10    6   42   90   30    5   71   36   32  114   35
##   [494]  22   32  113   23   99  111   40   25   29   38   60    7   45   46  116   62   50
##   [511]  19  104  109    2   49   63    2    2    2    2    2    2    2    2    2    2    2
##   [528]   2    2    2    2    2    2    2    2    2    2    2    2    2    2    2    2    2
##   [545]   2    2   49  109   63  102   63   63   49    9   47   59   73   85    3   49    3
##   [562]   3   33  102    3   85   75   63    3   33    3   12   47   75    3   63    9   94
##   [579]  33   33   85   15  102    3    3   41  102    9    2   35  102    2  102   45   24
##   [596]   3   85    3   63   33   33   85   33  110    3   33   75   94    9   46   12   67
##   [613]   3   94   94    3    3   85   15   94   85    2    2    2    3   75   94  109   39
##   [630] 102    2   49    2   47   49   37    9    3   49   85    9   75    3    2   33    2
##   [647]   9    3   63   24    2   94   49  109    3    2   33    2    2   17    2   33   75
```

```
##  [664]   3   2  59 102 109  61  77 168 166  74  56 106  33  66  83  20 102
##  [681] 102  46 126  50   5  63  65  59   2 109   2  33   2   3  63  33  94
##  [698]  23   2  49   3  33  75  85  37  84  23  27  45  61  55  80  88  27
##  [715]  20 157  43  80  34  68 110  34  51  53  41  46   9 163  57  89  41
##  [732]   3   3  33  75   2  63 102  49   4   3   2  75  33  33   2   3  33
##  [749]   3   3   2  85  75   2  33  75  75  49   3  75   2   3  49   3   2
##  [766]   3  33   2  85  37  85 109  49  85  49  49  61  75  20  58  33  46
##  [783]  20  24   4  75  44   9   9  24  49  45 162  51   2   9  37 109  49
##  [800]  33  63  12  75  75  58  68  35  71  86  96 164  59  44  15  23  65
##  [817]  65  85  50  84  71  64   4  23  49  75  15   3  75 158  56 112  20
##  [834]  63   2 101  17  79  30 136  84 103 133 112 123  82 162 157 166  64
##  [851] 124  43  89  97 112  82 116 166  65  23  77 135  75  77  49  93 161
##  [868]  74  23  46 104  71  24  97  41  61 148 102 100 109  55  50  17  90
##  [885]  37  80  12  15  87  64 138  71  34  33 102   9  23 102  85  17   3
##  [902]  20  75  49  49  49  49   2  12   9  59  35   5  33  49  49  31  64
##  [919] 159 153  24  68  68  65  53   2  44  39  20 109  43 167  37 103  59
##  [936]  57  34  91  66  51 158 162  34  61  59  24  12  23  75  85  68 168
##  [953]  53  80  39  57  93  76 165  70  46  86  84  24   2  49  51  24  61
##  [970]  37  37  69 129  23  91  69  35  44 164 114   2  61 131  27  89 140
##  [987]  23  44   9  31  71   2  56  69  50  54  37  76  66  55 160  83 111
## [1004]  88  43   2 161 102  77  15   9   2 125   9  68  39  43  66  45  34
## [1021]  41  27  82  12  58  39  75  39   4  50  34   2 114  91  44  54  59
## [1038]   4 102 127  65  49  12  55  23  46 105  35  27  55  70  35  67 106
## [1055] 115 158  27  96  41  15  59  33  63  33  23   3   2   2   2   2   2
## [1072]   2   2   2 108 102  68  94  31  41  15  34  20  34  45   4  15  23
## [1089]  20  31  49  35   2   3  63  65  12  23 102 109 109  23  41  47  24
## [1106]  94   4  75 109  75   2  20   9  75  51  43  33 108  94  14  80 104
## [1123]  55  67 160 160  26 137 109  75 155  61  86  10  66  93  95 145  66
## [1140] 132 110 139 156  87 128 120 149 164 143 121 162 144  36 130  51 141
## [1157] 147 122  20 107 168 151 150 142 146 152   8  53  74 139 154  58 134
## [1174]  13 109   3  49  85   2   2   2   2   2   2   2   2   2   2   2   2
## [1191]   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2
## [1208]   2  33  94  63 102  63  85  49   9  55  59  78 102  33  33  49   3
## [1225]  75   4  49  94  49  31   3  33 102   9  24   2  94  85 102 102   3
## [1242]  63  63  31 109  23 102  39  75  33  49  15  75   2  17  47  24   3
## [1259]  63   3   3  33   3   9   3  43   3  63 102  27   9  45   9  58   4
## [1276]  23  63  17  49  49  27  33 102  49   2   2   3   3  85  33  43   2
## [1293]   2  63   2  67  94  44  17  63  49  75  37  75   3  49  49   2  37
## [1310]  49 102  31   3  12 109  12  85  39   9 102  33  12  63  33
```

```r
+as.numeric(basicSchoolDataConsolidated$schpvt7)+as.numeric(basicSchoolDataConsolidated$schpvt9)
```

```
##    [1]   4   4   4  57  89  70  95  80  27 105  54  32  78  84  61  52  45
##   [18]  64  46  12  97 102  81  24  59  42   4   4   4   4   4   4   4   4
##   [35]   4   4   4   4   4   4   4   4   4  42  63  63   4   5  27  21 106
##   [52]   5  94  85  45  27 102  27  38 106   5  77  94  21  92  16  92 102
##   [69]  63   5   4  63   4   4   5 102  92   4   5  41   5  94   4   4   4
##   [86]   4  63   4   5   4  75   4   5  85  66   5   4  63   4   5  75   4
##  [103]   4  63   4   4  12   4   5   4   4   4   4   4   5   4   4   4   4
```

```
## [120]     5     4     5     4     4     4     4     5    41     4    41     5     5     4     4     4     4
## [137]     4     4    85    63     4    75    41     4     5     5    94    10    74   102     5    41    75
## [154]     5    75    45    63     5     5     4     5    75    41    63    12    94     4    85    24    24
## [171]    63    16     4   102    41    94   106     4     4    63    45     5     5     4     4    92     4
## [188]     4     4     4     5     4    12     5     4     4     4     4     4     4     4     4     4     5
## [205]     5     4     4     5     4     4     4     4     4     4     4     5     4     4     4     4     4
## [222]     4     4     4     4     4     4     4     4     4    32    63   102    41    16    75    53     6
## [239]    42    27    75    32     4     5    94     5    27    24    74    41    98     4    75    74    75
## [256]    63    75    41    32    16    75     5   102    41    92     4     5     5     5    92    75   102
## [273]     4    75     4    41    94    75    12   102     5    85     5     4     5   106     5    63    72
## [290]    88    32   102    92    54    77    21    24    16    54    34    38    41     4     4     4     4
## [307]     4     4    85     4     4     4    75     5     5     4     4     4     4     4    85     5    75
## [324]    41     4     4    63    63    75     4     4    85    41     4     4     4     5     4     5    85
## [341]     4     5     5     4    85     4     4     4     4     4     5    92    41    68    19    39    37
## [358]   107    51    33     8    53    86    87    77    73    13    62    44     4   104    65    43   103
## [375]    67    18     9    82    35     7    58    56    93    71    60     9    99    26    75     5     4
## [392]    16    27    41     4    32     5   102    79   106    92    75    45    32     4     4     4     4
## [409]     4     4     4     4    63     5     4     4     5     4     4     4     4     4     4    17    55
## [426]    28    23    29    61    30    81    15    45    50    20    47    83    14    96    28    49    11
## [443]    78    45    40    88   100    96    31    61   101    90    25     4     4     4     4    92     4
## [460]    63     4     5    41    41    75    92    21     4    75     5     4     4     4    94     5     5
## [477]    63    63     5    32     6    41     5    94    16    75    92     5    85   106   102    41     5
## [494]    12    41   102    94    48     5    94    48    92    85   102    48    41    75    12    21     5
## [511]    92    75     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4
## [528]     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4
## [545]     4     4     4     4     4     4     4     4     4     5    69    22    92    27    75    45    66
## [562]    75    94    66     5     6    34    16   102     6    13    36    61    42     5    38    93    76
## [579]    12    16   102    64    92    41    92    83    24    24    63    79    37    46    72    45    16
## [596]    27    46     6    66    28    94    38   106   109    27    75    21   108    88    83    66    21
## [613]     5    12    89     6    24    27    38    27    85     4   106    36    11    94    32    63    59
## [630]    34   102    92    63    85    45    21    85     6    21    32    48    75     4     4     5     4
## [647]    92     7     5    41    41    85    63    92    41     4     4     4     9   102    41     4     4
## [664]     4     4    56   145   154   148   151    58   171   161   129   147   146    73   128   160   137
## [681]    58   142   174   114   140   120   163   144     4     4     4     5     4     4     4     4     4
## [698]     4     4     4     4     4     4     4     4    24     5    41     5     5    94    27    92     4
## [715]     6    75    32    16    92    85    21    12     5    16    92    16     5   106    63    94     5
## [732]     5     4    41     5     4    92   102    63     4    41     5     4    85     4     4     4     4
## [749]     5     4     4     4     5     4     5    85    45     4    41   102     4     4     4     4     4
## [766]    41     5     4    16     4     4     5     4     4     4     4    85     5     4     5     4    41
## [783]    41     4     5     5     4     4    63     5     4    41     5     5     5     4    41     4     4
## [800]     4    85    41     4    75    41     4     5     5    92     9    81    75     4    41     5     4
## [817]     5     5    75     4    41     4     5    41    41     4    92    41     5    63   106     5     5
## [834]    63     4   106    41    92    92     4     5     5    32    41     5     4    63    92     4     4
## [851]     4     4     5    41    16     4     4     5     4     4    63     4     4     4     4    75     4
## [868]     4     4     4     4     4     4     4     4     4     4     5     4     4     4     4     4     4
## [885]     4     4     4     4     4     4     4     4     5    92   106   102    24    12    59     4    54
## [902]   136    63    32    63    94    94    75    46    12    81    16   169    12    92    76    41    63
## [919]    75    41    21    32    85     5    12     4     5     4    41     5     5    92    75   102     4
## [936]    85     4     4    94    41    75    46     4    85     5     4     5    12     5    75    89   166
## [953]   135    42    32   156   166    54    46    32    87    61   156    94     4     4     5     5     4
```

```
##  [970]    4   63   41    4    4   75    5    5    5    4   41    4    4   41    4    5    4
##  [987]    5    4    5   63   85    4    4   75    5    4    4    5    4    4   85   75   41
## [1004]    5    4    4   63    4    5    4    4    4   41   85    4  150   19  124  125  173
## [1021]  133  117  110  134  159   89   79  152  111  141  126    4  168  143  132   30   68
## [1038]  113  112  155  123    7  138  138  166  153  139    7  167   25   75   41    4   16
## [1055]   32    4    4   32    5    6   10   12   92   63   48   66    4    4    4    4    4
## [1072]    4    4    4   41    4    4    4    5    4    4    4    4    4    4   18  138  118
## [1089]  115  116  135  119   83  111   53  127  113  130   81  112   95   31  131   15   77
## [1106]   48  137   88  165   95   33   61  170   91  172    4    4    4    4   92    4    4
## [1123]    4    4    5    4   92   92   21    4   92    4    4    4    4   94    5    4   75
## [1140]    4    5    6   12   85    5   75   45    6    6    5   63  102   12   75   41   46
## [1157]   92   24    6   53    5   21   32   75   94   85  136   41   63    6   36    5   92
## [1174]   75    4    4    4    4    4    4    4    4    4    4    4    4    4    4    4    4
## [1191]    4    4    4    4    4    4    4    4    4    4    4    4    4    4    4    4    4
## [1208]    4    4    4    4    4    4    4    4    5   78  121  175   70    6   42   59   21
## [1225]   54   70    5   21   92   61   38  106  149   42   89   16   92   46  110   66   24
## [1242]   34   39   64   32   21  122  162   42   54  102   81   76   45   91   46   27   61
## [1259]   54    6   77   32   53  135    6   96  102   75   54   81  164  157   64   48    6
## [1276]   32   86  158   94  106   46   70   21   63    6   59   41   21   48   63   61   36
## [1293]   94   85   92   75   27   94   92   75   21   24   46   75    4    4    4    4  106
## [1310]    5   41    5    4   92   94   94   75  107   63   94    4    6  106    5
```

```r
basicSchoolDataConsolidated$schpvt1 <- NULL
basicSchoolDataConsolidated$schpvt2 <- NULL
basicSchoolDataConsolidated$schpvt3 <- NULL
basicSchoolDataConsolidated$schpvt4 <- NULL
basicSchoolDataConsolidated$schpvt5 <- NULL
basicSchoolDataConsolidated$schpvt6 <- NULL
basicSchoolDataConsolidated$schpvt7 <- NULL
basicSchoolDataConsolidated$schpvt9 <- NULL


basicSchoolDataConsolidated$`sch_r_govt_total` <-
as.numeric(basicSchoolDataConsolidated$`sch r
govt1`)+as.numeric(basicSchoolDataConsolidated$`sch r
govt2`)+as.numeric(basicSchoolDataConsolidated$`sch r govt3`)+
  as.numeric(basicSchoolDataConsolidated$`sch r
govt4`)+as.numeric(basicSchoolDataConsolidated$`sch r govt5`)+
as.numeric(basicSchoolDataConsolidated$`sch r
govt6`)+as.numeric(basicSchoolDataConsolidated$`sch r govt7`)+
  as.numeric(basicSchoolDataConsolidated$`sch r govt9`)

basicSchoolDataConsolidated$`sch r govt1` <- NULL
basicSchoolDataConsolidated$`sch r govt2` <- NULL
basicSchoolDataConsolidated$`sch r govt3` <- NULL
basicSchoolDataConsolidated$`sch r govt4` <- NULL
basicSchoolDataConsolidated$`sch r govt5` <- NULL
basicSchoolDataConsolidated$`sch r govt6` <- NULL
basicSchoolDataConsolidated$`sch r govt7` <- NULL
basicSchoolDataConsolidated$`sch r govt9` <- NULL
```

```r
basicSchoolDataConsolidated$`sch_r_pvt_total` <-
as.numeric(basicSchoolDataConsolidated$`sch r pvt1`)+
as.numeric(basicSchoolDataConsolidated$`sch r pvt2`)+
as.numeric(basicSchoolDataConsolidated$`sch r pvt3`)+
as.numeric(basicSchoolDataConsolidated$`sch r pvt4`)+
as.numeric(basicSchoolDataConsolidated$`sch r pvt5`)+
as.numeric(basicSchoolDataConsolidated$`sch r pvt6`)+
as.numeric(basicSchoolDataConsolidated$`sch r pvt7`)+
as.numeric(basicSchoolDataConsolidated$`sch r pvt9`)

basicSchoolDataConsolidated$`sch r pvt1` <- NULL
basicSchoolDataConsolidated$`sch r pvt2` <- NULL
basicSchoolDataConsolidated$`sch r pvt3` <- NULL
basicSchoolDataConsolidated$`sch r pvt4` <- NULL
basicSchoolDataConsolidated$`sch r pvt5` <- NULL
basicSchoolDataConsolidated$`sch r pvt6` <- NULL
basicSchoolDataConsolidated$`sch r pvt7` <- NULL
basicSchoolDataConsolidated$`sch r pvt9` <- NULL

basicSchoolDataConsolidated$`cls1 school1` <- NULL
basicSchoolDataConsolidated$`cls1 school2` <- NULL
basicSchoolDataConsolidated$`cls1 school3` <- NULL
basicSchoolDataConsolidated$`cls1 school4` <- NULL
basicSchoolDataConsolidated$`cls1 school5` <- NULL
basicSchoolDataConsolidated$`cls1 school6` <- NULL
basicSchoolDataConsolidated$`cls1 school7` <- NULL

basicSchoolDataConsolidated$`tch1 school1` <-NULL
basicSchoolDataConsolidated$`tch1 school2` <-NULL
basicSchoolDataConsolidated$`tch1 school3` <-NULL
basicSchoolDataConsolidated$`tch1 school4` <-NULL
basicSchoolDataConsolidated$`tch1 school5` <-NULL
basicSchoolDataConsolidated$`tch1 school6` <-NULL
basicSchoolDataConsolidated$`tch1 school7` <-NULL

basicSchoolDataConsolidated$`pp sch1` <- NULL
basicSchoolDataConsolidated$`pp sch2` <- NULL
basicSchoolDataConsolidated$`pp sch3` <- NULL
basicSchoolDataConsolidated$`pp sch6` <- NULL

basicSchoolDataConsolidated$`gtoilet sch1` <- NULL
basicSchoolDataConsolidated$`gtoilet sch2` <- NULL
basicSchoolDataConsolidated$`gtoilet sch3` <- NULL
basicSchoolDataConsolidated$`gtoilet sch4` <- NULL
basicSchoolDataConsolidated$`gtoilet sch5` <- NULL
basicSchoolDataConsolidated$`gtoilet sch6` <- NULL
basicSchoolDataConsolidated$`gtoilet sch7` <- NULL

basicSchoolDataConsolidated$`water sch1` <- NULL
```

```r
basicSchoolDataConsolidated$`water sch2` <- NULL
basicSchoolDataConsolidated$`water sch3` <- NULL
basicSchoolDataConsolidated$`water sch4` <- NULL
basicSchoolDataConsolidated$`water sch5` <- NULL
basicSchoolDataConsolidated$`water sch6` <- NULL
basicSchoolDataConsolidated$`water sch7` <- NULL

basicSchoolDataConsolidated$`enr stch sch1` <- NULL
basicSchoolDataConsolidated$`enr stch sch2` <- NULL
basicSchoolDataConsolidated$`enr stch sch3` <- NULL
basicSchoolDataConsolidated$`enr stch sch4` <- NULL
basicSchoolDataConsolidated$`enr stch sch5` <- NULL
basicSchoolDataConsolidated$`enr stch sch6` <- NULL
basicSchoolDataConsolidated$`enr stch sch7` <- NULL

basicSchoolDataConsolidated$`no fem sch1` <- NULL
basicSchoolDataConsolidated$`no fem sch2` <- NULL
basicSchoolDataConsolidated$`no fem sch3` <- NULL
basicSchoolDataConsolidated$`no fem sch4` <- NULL
basicSchoolDataConsolidated$`no fem sch5` <- NULL
basicSchoolDataConsolidated$`no fem sch6` <- NULL
basicSchoolDataConsolidated$`no fem sch7` <- NULL

basicSchoolDataConsolidated$`sch 50enr1` <- NULL
basicSchoolDataConsolidated$`sch 50enr2` <- NULL
basicSchoolDataConsolidated$`sch 50enr3` <- NULL
basicSchoolDataConsolidated$`sch 50enr4` <- NULL
basicSchoolDataConsolidated$`sch 50enr5` <- NULL
basicSchoolDataConsolidated$`sch 50enr6` <- NULL
basicSchoolDataConsolidated$`sch 50enr7` <- NULL

basicSchoolDataConsolidated$`sch since 2003 1_total` <-
as.numeric(basicSchoolDataConsolidated$`sch since 2003 1`)+
  as.numeric(basicSchoolDataConsolidated$`sch since 2003 2`)+
  as.numeric(basicSchoolDataConsolidated$`sch since 2003 3`)+
  as.numeric(basicSchoolDataConsolidated$`sch since 2003 4`)+
  as.numeric(basicSchoolDataConsolidated$`sch since 2003 5`)+
  as.numeric(basicSchoolDataConsolidated$`sch since 2003 6`)+
  as.numeric(basicSchoolDataConsolidated$`sch since 2003 7`)

basicSchoolDataConsolidated$`sch since 2003 1` <- NULL
basicSchoolDataConsolidated$`sch since 2003 2` <- NULL
basicSchoolDataConsolidated$`sch since 2003 3` <- NULL
basicSchoolDataConsolidated$`sch since 2003 4` <- NULL
basicSchoolDataConsolidated$`sch since 2003 5` <- NULL
basicSchoolDataConsolidated$`sch since 2003 6` <- NULL
basicSchoolDataConsolidated$`sch since 2003 7` <- NULL

basicSchoolDataConsolidated$kitshed_total <-
```

```r
as.numeric(basicSchoolDataConsolidated$kitshed1)+
  as.numeric(basicSchoolDataConsolidated$kitshed2)+
  as.numeric(basicSchoolDataConsolidated$kitshed3)+
  as.numeric(basicSchoolDataConsolidated$kitshed4)+
  as.numeric(basicSchoolDataConsolidated$kitshed5)+
  as.numeric(basicSchoolDataConsolidated$kitshed6)+
  as.numeric(basicSchoolDataConsolidated$kitshed7)

basicSchoolDataConsolidated$kitshed1 <- NULL
basicSchoolDataConsolidated$kitshed2 <- NULL
basicSchoolDataConsolidated$kitshed3 <- NULL
basicSchoolDataConsolidated$kitshed4 <- NULL
basicSchoolDataConsolidated$kitshed5 <- NULL
basicSchoolDataConsolidated$kitshed6 <- NULL
basicSchoolDataConsolidated$kitshed7 <- NULL


basicSchoolDataConsolidated$`tot cls` <-
as.numeric(basicSchoolDataConsolidated$`tot cls1`)+
  as.numeric(basicSchoolDataConsolidated$`tot cls2`)+
  as.numeric(basicSchoolDataConsolidated$`tot cls3`)+
  as.numeric(basicSchoolDataConsolidated$`tot cls4`)+
  as.numeric(basicSchoolDataConsolidated$`tot cls5`)+
  as.numeric(basicSchoolDataConsolidated$`tot cls6`)+
  as.numeric(basicSchoolDataConsolidated$`tot cls7`)

basicSchoolDataConsolidated$`tot cls1` <- NULL
basicSchoolDataConsolidated$`tot cls2` <- NULL
basicSchoolDataConsolidated$`tot cls3` <- NULL
basicSchoolDataConsolidated$`tot cls4` <- NULL
basicSchoolDataConsolidated$`tot cls5` <- NULL
basicSchoolDataConsolidated$`tot cls6` <- NULL
basicSchoolDataConsolidated$`tot cls7` <- NULL

basicSchoolDataConsolidated$`cls good` <-
as.numeric(basicSchoolDataConsolidated$`cls good1`)+
  as.numeric(basicSchoolDataConsolidated$`cls good2`)+
  as.numeric(basicSchoolDataConsolidated$`cls good3`)+
  as.numeric(basicSchoolDataConsolidated$`cls good4`)+
  as.numeric(basicSchoolDataConsolidated$`cls good5`)+
  as.numeric(basicSchoolDataConsolidated$`cls good6`)+
  as.numeric(basicSchoolDataConsolidated$`cls good7`)

basicSchoolDataConsolidated$`cls good1` <- NULL
basicSchoolDataConsolidated$`cls good2` <- NULL
basicSchoolDataConsolidated$`cls good3` <- NULL
basicSchoolDataConsolidated$`cls good4` <- NULL
basicSchoolDataConsolidated$`cls good5` <- NULL
basicSchoolDataConsolidated$`cls good6` <- NULL
```

```r
basicSchoolDataConsolidated$`cls good7` <- NULL


basicSchoolDataConsolidated$`cls major` <-
as.numeric(basicSchoolDataConsolidated$`cls major1`)+
  as.numeric(basicSchoolDataConsolidated$`cls major2`)+
  as.numeric(basicSchoolDataConsolidated$`cls major3`)+
  as.numeric(basicSchoolDataConsolidated$`cls major4`)+
  as.numeric(basicSchoolDataConsolidated$`cls major5`)+
  as.numeric(basicSchoolDataConsolidated$`cls major6`)+
  as.numeric(basicSchoolDataConsolidated$`cls major7`)

basicSchoolDataConsolidated$`cls major1` <- NULL
basicSchoolDataConsolidated$`cls major2` <- NULL
basicSchoolDataConsolidated$`cls major3` <- NULL
basicSchoolDataConsolidated$`cls major4` <- NULL
basicSchoolDataConsolidated$`cls major5` <- NULL
basicSchoolDataConsolidated$`cls major6` <- NULL
basicSchoolDataConsolidated$`cls major7` <- NULL


basicSchoolDataConsolidated$`cls minor` <-
as.numeric(basicSchoolDataConsolidated$`cls minor1`)+
  as.numeric(basicSchoolDataConsolidated$`cls minor2`)+
  as.numeric(basicSchoolDataConsolidated$`cls minor3`)+
  as.numeric(basicSchoolDataConsolidated$`cls minor4`)+
  as.numeric(basicSchoolDataConsolidated$`cls minor5`)+
  as.numeric(basicSchoolDataConsolidated$`cls minor6`)+
  as.numeric(basicSchoolDataConsolidated$`cls minor7`)

basicSchoolDataConsolidated$`cls minor1` <- NULL
basicSchoolDataConsolidated$`cls minor2` <- NULL
basicSchoolDataConsolidated$`cls minor3` <- NULL
basicSchoolDataConsolidated$`cls minor4` <- NULL
basicSchoolDataConsolidated$`cls minor5` <- NULL
basicSchoolDataConsolidated$`cls minor6` <- NULL
basicSchoolDataConsolidated$`cls minor7` <- NULL

basicSchoolDataConsolidated$`cls other` <-
as.numeric(basicSchoolDataConsolidated$`cls other1`)+
  as.numeric(basicSchoolDataConsolidated$`cls other2`)+
  as.numeric(basicSchoolDataConsolidated$`cls other3`)+
  as.numeric(basicSchoolDataConsolidated$`cls other4`)+
  as.numeric(basicSchoolDataConsolidated$`cls other5`)+
  as.numeric(basicSchoolDataConsolidated$`cls other6`)+
  as.numeric(basicSchoolDataConsolidated$`cls other7`)

basicSchoolDataConsolidated$`cls other1` <- NULL
basicSchoolDataConsolidated$`cls other2` <- NULL
```

```r
basicSchoolDataConsolidated$`cls other3` <- NULL
basicSchoolDataConsolidated$`cls other4` <- NULL
basicSchoolDataConsolidated$`cls other5` <- NULL
basicSchoolDataConsolidated$`cls other6` <- NULL
basicSchoolDataConsolidated$`cls other7` <- NULL

basicSchoolDataConsolidated$`btoilet sch_total` <-
as.numeric(basicSchoolDataConsolidated$`btoilet sch1`)+
  as.numeric(basicSchoolDataConsolidated$`btoilet sch2`)+
  as.numeric(basicSchoolDataConsolidated$`btoilet sch3`)+
  as.numeric(basicSchoolDataConsolidated$`btoilet sch4`)+
  as.numeric(basicSchoolDataConsolidated$`btoilet sch5`)+
  as.numeric(basicSchoolDataConsolidated$`btoilet sch6`)+
  as.numeric(basicSchoolDataConsolidated$`btoilet sch7`)

basicSchoolDataConsolidated$`btoilet sch1` <- NULL
basicSchoolDataConsolidated$`btoilet sch2` <- NULL
basicSchoolDataConsolidated$`btoilet sch3` <- NULL
basicSchoolDataConsolidated$`btoilet sch4` <- NULL
basicSchoolDataConsolidated$`btoilet sch5` <- NULL
basicSchoolDataConsolidated$`btoilet sch6` <- NULL
basicSchoolDataConsolidated$`btoilet sch7` <- NULL

basicSchoolDataConsolidated$`electric sch_total` <-
as.numeric(basicSchoolDataConsolidated$`electric sch1`)+
  as.numeric(basicSchoolDataConsolidated$`electric sch2`)+
  as.numeric(basicSchoolDataConsolidated$`electric sch3`)+
  as.numeric(basicSchoolDataConsolidated$`electric sch4`)+
  as.numeric(basicSchoolDataConsolidated$`electric sch5`)+
  as.numeric(basicSchoolDataConsolidated$`electric sch6`)+
  as.numeric(basicSchoolDataConsolidated$`electric sch7`)

basicSchoolDataConsolidated$`electric sch1` <- NULL
basicSchoolDataConsolidated$`electric sch2` <- NULL
basicSchoolDataConsolidated$`electric sch3` <- NULL
basicSchoolDataConsolidated$`electric sch4` <- NULL
basicSchoolDataConsolidated$`electric sch5` <- NULL
basicSchoolDataConsolidated$`electric sch6` <- NULL
basicSchoolDataConsolidated$`electric sch7` <- NULL

basicSchoolDataConsolidated$`computer sch_total` <-
as.numeric(basicSchoolDataConsolidated$`computer sch1`)+
  as.numeric(basicSchoolDataConsolidated$`computer sch2`)+
  as.numeric(basicSchoolDataConsolidated$`computer sch3`)+
  as.numeric(basicSchoolDataConsolidated$`computer sch4`)+
  as.numeric(basicSchoolDataConsolidated$`computer sch5`)+
  as.numeric(basicSchoolDataConsolidated$`computer sch6`)+
  as.numeric(basicSchoolDataConsolidated$`computer sch7`)
```

```r
basicSchoolDataConsolidated$`computer sch1` <- NULL
basicSchoolDataConsolidated$`computer sch2` <- NULL
basicSchoolDataConsolidated$`computer sch3` <- NULL
basicSchoolDataConsolidated$`computer sch4` <- NULL
basicSchoolDataConsolidated$`computer sch5` <- NULL
basicSchoolDataConsolidated$`computer sch6` <- NULL
basicSchoolDataConsolidated$`computer sch7` <- NULL

basicSchoolDataConsolidated$mdm_total <-
as.numeric(basicSchoolDataConsolidated$`mdm 1`)+
  as.numeric(basicSchoolDataConsolidated$`mdm 2`)+
  as.numeric(basicSchoolDataConsolidated$`mdm 3`)+
  as.numeric(basicSchoolDataConsolidated$`mdm 4`)+
  as.numeric(basicSchoolDataConsolidated$`mdm 5`)+
  as.numeric(basicSchoolDataConsolidated$`mdm 6`)+
  as.numeric(basicSchoolDataConsolidated$`mdm 7`)

basicSchoolDataConsolidated$`mdm 1` <- NULL
basicSchoolDataConsolidated$`mdm 2` <- NULL
basicSchoolDataConsolidated$`mdm 3` <- NULL
basicSchoolDataConsolidated$`mdm 4` <- NULL
basicSchoolDataConsolidated$`mdm 5` <- NULL
basicSchoolDataConsolidated$`mdm 6` <- NULL
basicSchoolDataConsolidated$`mdm 7` <- NULL

basicSchoolDataConsolidated$smc_total <-
as.numeric(basicSchoolDataConsolidated$`smc 1`)+
  as.numeric(basicSchoolDataConsolidated$`smc 2`)+
as.numeric(basicSchoolDataConsolidated$`smc 3`)+
  as.numeric(basicSchoolDataConsolidated$`smc 4`)

basicSchoolDataConsolidated$`smc 1` <- NULL
basicSchoolDataConsolidated$`smc 2` <- NULL
basicSchoolDataConsolidated$`smc 3` <- NULL
basicSchoolDataConsolidated$`smc 4` <- NULL

basicSchoolDataConsolidated$sch_un_total <-
as.numeric(basicSchoolDataConsolidated$`sch un1`) +
  as.numeric(basicSchoolDataConsolidated$`sch un2`)+
  as.numeric(basicSchoolDataConsolidated$`sch un3`)+
  as.numeric(basicSchoolDataConsolidated$`sch un4`)+
  as.numeric(basicSchoolDataConsolidated$`sch un5`)+
  as.numeric(basicSchoolDataConsolidated$`sch un6`)+
  as.numeric(basicSchoolDataConsolidated$`sch un7`)+
  as.numeric(basicSchoolDataConsolidated$`sch un9`)

basicSchoolDataConsolidated$`sch un1` <- NULL
basicSchoolDataConsolidated$`sch un2` <- NULL
basicSchoolDataConsolidated$`sch un3` <- NULL
```

```r
basicSchoolDataConsolidated$`sch un4` <- NULL
basicSchoolDataConsolidated$`sch un5` <- NULL
basicSchoolDataConsolidated$`sch un6` <- NULL
basicSchoolDataConsolidated$`sch un7` <- NULL
basicSchoolDataConsolidated$`sch un8` <- NULL
basicSchoolDataConsolidated$`sch un9` <- NULL

basicSchoolDataConsolidated$books_total <-
as.numeric(basicSchoolDataConsolidated$`book p b`)+
  as.numeric(basicSchoolDataConsolidated$`book p g`)+
  as.numeric(basicSchoolDataConsolidated$`book up b`)+
  as.numeric(basicSchoolDataConsolidated$`book up g`)

basicSchoolDataConsolidated$`book p b` <- NULL
basicSchoolDataConsolidated$`book p g` <- NULL
basicSchoolDataConsolidated$`book up b` <- NULL
basicSchoolDataConsolidated$`book up g` <- NULL

basicSchoolDataConsolidated$uniform_total <-
as.numeric(basicSchoolDataConsolidated$`uniform p b`)+
  as.numeric(basicSchoolDataConsolidated$`uniform p g`)+
  as.numeric(basicSchoolDataConsolidated$`uniform up b`)+
  as.numeric(basicSchoolDataConsolidated$`uniform up g`)

basicSchoolDataConsolidated$`uniform p b` <- NULL
basicSchoolDataConsolidated$`uniform p g` <- NULL
basicSchoolDataConsolidated$`uniform up b` <- NULL
basicSchoolDataConsolidated$`uniform up g`<- NULL

### After aggregation of school data there are 45 columns still few more
columns left


##

basicTeacherdataConsolidated <- rbind(teacherData_12_13,teacherData_13_14)

basicTeacherdataConsolidated[,5:180]<-
factorsNumeric(basicTeacherdataConsolidated[,5:180])

basicTeacherdataConsolidated$tch_govt_total <-
basicTeacherdataConsolidated$tch_govt1+
  basicTeacherdataConsolidated$tch_govt2+
  basicTeacherdataConsolidated$tch_govt3+
  basicTeacherdataConsolidated$tch_govt4+
  basicTeacherdataConsolidated$tch_govt5+
  basicTeacherdataConsolidated$tch_govt6+
  basicTeacherdataConsolidated$tch_govt7+
  basicTeacherdataConsolidated$tch_govt9
```

```
basicTeacherdataConsolidated$tch_govt1 <- NULL
basicTeacherdataConsolidated$tch_govt2 <- NULL
basicTeacherdataConsolidated$tch_govt3 <- NULL
basicTeacherdataConsolidated$tch_govt4 <- NULL
basicTeacherdataConsolidated$tch_govt5 <- NULL
basicTeacherdataConsolidated$tch_govt6 <- NULL
basicTeacherdataConsolidated$tch_govt7 <- NULL
basicTeacherdataConsolidated$tch_govt9 <- NULL

basicTeacherdataConsolidated$tch_pvt_total <-
basicTeacherdataConsolidated$tch_pvt1+
  basicTeacherdataConsolidated$tch_pvt2+
  basicTeacherdataConsolidated$tch_pvt3+
  basicTeacherdataConsolidated$tch_pvt4+
  basicTeacherdataConsolidated$tch_pvt5+
  basicTeacherdataConsolidated$tch_pvt6+
  basicTeacherdataConsolidated$tch_pvt7+
  basicTeacherdataConsolidated$tch_pvt9

basicTeacherdataConsolidated$tch_pvt1 <- NULL
basicTeacherdataConsolidated$tch_pvt2 <- NULL
basicTeacherdataConsolidated$tch_pvt3 <- NULL
basicTeacherdataConsolidated$tch_pvt4 <- NULL
basicTeacherdataConsolidated$tch_pvt5 <- NULL
basicTeacherdataConsolidated$tch_pvt6 <- NULL
basicTeacherdataConsolidated$tch_pvt7 <- NULL
basicTeacherdataConsolidated$tch_pvt9 <- NULL


basicTeacherdataConsolidated$tch_un_total <-
basicTeacherdataConsolidated$tch_un1+
  basicTeacherdataConsolidated$tch_un2+
  basicTeacherdataConsolidated$tch_un3+
  basicTeacherdataConsolidated$tch_un4+
  basicTeacherdataConsolidated$tch_un5+
  basicTeacherdataConsolidated$tch_un6+
  basicTeacherdataConsolidated$tch_un7+
  basicTeacherdataConsolidated$tch_un9

basicTeacherdataConsolidated$tch_un1 <- NULL
basicTeacherdataConsolidated$tch_un2 <- NULL
basicTeacherdataConsolidated$tch_un3 <- NULL
basicTeacherdataConsolidated$tch_un4 <- NULL
basicTeacherdataConsolidated$tch_un5 <- NULL
basicTeacherdataConsolidated$tch_un6 <- NULL
basicTeacherdataConsolidated$tch_un7 <- NULL
basicTeacherdataConsolidated$tch_un9 <- NULL
```

```r
basicTeacherdataConsolidated$tch_bs_total <-
basicTeacherdataConsolidated$tch_bs1+
  basicTeacherdataConsolidated$tch_bs2+
  basicTeacherdataConsolidated$tch_bs3+
  basicTeacherdataConsolidated$tch_bs4+
  basicTeacherdataConsolidated$tch_bs5+
  basicTeacherdataConsolidated$tch_bs6+
  basicTeacherdataConsolidated$tch_bs7

basicTeacherdataConsolidated$tch_bs1 <- NULL
basicTeacherdataConsolidated$tch_bs2 <- NULL
basicTeacherdataConsolidated$tch_bs3 <- NULL
basicTeacherdataConsolidated$tch_bs4 <- NULL
basicTeacherdataConsolidated$tch_bs5 <- NULL
basicTeacherdataConsolidated$tch_bs6 <- NULL
basicTeacherdataConsolidated$tch_bs7 <- NULL


basicTeacherdataConsolidated$tch_s_total <-
basicTeacherdataConsolidated$tch_s1+
  basicTeacherdataConsolidated$tch_s2+
  basicTeacherdataConsolidated$tch_s3+
  basicTeacherdataConsolidated$tch_s4+
  basicTeacherdataConsolidated$tch_s5+
  basicTeacherdataConsolidated$tch_s6+
  basicTeacherdataConsolidated$tch_s7

basicTeacherdataConsolidated$tch_s1 <- NULL
basicTeacherdataConsolidated$tch_s2 <- NULL
basicTeacherdataConsolidated$tch_s3 <- NULL
basicTeacherdataConsolidated$tch_s4 <- NULL
basicTeacherdataConsolidated$tch_s5 <- NULL
basicTeacherdataConsolidated$tch_s6 <- NULL
basicTeacherdataConsolidated$tch_s7 <- NULL

basicTeacherdataConsolidated$tch_hs_total <-
basicTeacherdataConsolidated$tch_hs1+
  basicTeacherdataConsolidated$tch_hs2+
  basicTeacherdataConsolidated$tch_hs3+
  basicTeacherdataConsolidated$tch_hs4+
  basicTeacherdataConsolidated$tch_hs5+
  basicTeacherdataConsolidated$tch_hs6+
  basicTeacherdataConsolidated$tch_hs7

basicTeacherdataConsolidated$tch_hs1 <- NULL
basicTeacherdataConsolidated$tch_hs2 <- NULL
basicTeacherdataConsolidated$tch_hs3 <- NULL
basicTeacherdataConsolidated$tch_hs4 <- NULL
```

```
basicTeacherdataConsolidated$tch_hs5 <- NULL
basicTeacherdataConsolidated$tch_hs6 <- NULL
basicTeacherdataConsolidated$tch_hs7 <- NULL

basicTeacherdataConsolidated$tch_grad_total <-
basicTeacherdataConsolidated$tch_grad1+
  basicTeacherdataConsolidated$tch_grad2+
  basicTeacherdataConsolidated$tch_grad3+
  basicTeacherdataConsolidated$tch_grad4+
  basicTeacherdataConsolidated$tch_grad5+
  basicTeacherdataConsolidated$tch_grad6+
  basicTeacherdataConsolidated$tch_grad7

basicTeacherdataConsolidated$tch_grad1 <- NULL
basicTeacherdataConsolidated$tch_grad2 <- NULL
basicTeacherdataConsolidated$tch_grad3 <- NULL
basicTeacherdataConsolidated$tch_grad4 <- NULL
basicTeacherdataConsolidated$tch_grad5 <- NULL
basicTeacherdataConsolidated$tch_grad6 <- NULL
basicTeacherdataConsolidated$tch_grad7 <- NULL


basicTeacherdataConsolidated$tch_pgrad_total <-
basicTeacherdataConsolidated$tch_pgrad1+
  basicTeacherdataConsolidated$tch_pgrad2+
  basicTeacherdataConsolidated$tch_pgrad3+
  basicTeacherdataConsolidated$tch_pgrad4+
  basicTeacherdataConsolidated$tch_pgrad5+
  basicTeacherdataConsolidated$tch_pgrad6+
  basicTeacherdataConsolidated$tch_pgrad7

basicTeacherdataConsolidated$tch_pgrad1 <- NULL
basicTeacherdataConsolidated$tch_pgrad2 <- NULL
basicTeacherdataConsolidated$tch_pgrad3 <- NULL
basicTeacherdataConsolidated$tch_pgrad4 <- NULL
basicTeacherdataConsolidated$tch_pgrad5 <- NULL
basicTeacherdataConsolidated$tch_pgrad6 <- NULL
basicTeacherdataConsolidated$tch_pgrad7 <- NULL


basicTeacherdataConsolidated$tch_mph_total <-
basicTeacherdataConsolidated$tch_mph1+
  basicTeacherdataConsolidated$tch_mph2+
  basicTeacherdataConsolidated$tch_mph3+
  basicTeacherdataConsolidated$tch_mph4+
  basicTeacherdataConsolidated$tch_mph5+
  basicTeacherdataConsolidated$tch_mph6+
  basicTeacherdataConsolidated$tch_mph7
```

```r
basicTeacherdataConsolidated$tch_mph1 <- NULL
basicTeacherdataConsolidated$tch_mph2 <- NULL
basicTeacherdataConsolidated$tch_mph3 <- NULL
basicTeacherdataConsolidated$tch_mph4 <- NULL
basicTeacherdataConsolidated$tch_mph5 <- NULL
basicTeacherdataConsolidated$tch_mph6 <- NULL
basicTeacherdataConsolidated$tch_mph7 <- NULL

basicTeacherdataConsolidated$tch_pd_total <-
basicTeacherdataConsolidated$tch_pd1+
  basicTeacherdataConsolidated$tch_pd2+
  basicTeacherdataConsolidated$tch_pd3+
  basicTeacherdataConsolidated$tch_pd4+
  basicTeacherdataConsolidated$tch_pd5+
  basicTeacherdataConsolidated$tch_pd6+
  basicTeacherdataConsolidated$tch_pd7

basicTeacherdataConsolidated$tch_pd1 <- NULL
basicTeacherdataConsolidated$tch_pd2 <- NULL
basicTeacherdataConsolidated$tch_pd3 <- NULL
basicTeacherdataConsolidated$tch_pd4 <- NULL
basicTeacherdataConsolidated$tch_pd5 <- NULL
basicTeacherdataConsolidated$tch_pd6 <- NULL
basicTeacherdataConsolidated$tch_pd7 <- NULL



basicTeacherdataConsolidated$tch_m_total <-
basicTeacherdataConsolidated$tch_m1+
  basicTeacherdataConsolidated$tch_m2+
  basicTeacherdataConsolidated$tch_m3+
  basicTeacherdataConsolidated$tch_m4+
  basicTeacherdataConsolidated$tch_m5+
  basicTeacherdataConsolidated$tch_m6+
  basicTeacherdataConsolidated$tch_m7

basicTeacherdataConsolidated$tch_m1 <- NULL
basicTeacherdataConsolidated$tch_m2 <- NULL
basicTeacherdataConsolidated$tch_m3 <- NULL
basicTeacherdataConsolidated$tch_m4 <- NULL
basicTeacherdataConsolidated$tch_m5 <- NULL
basicTeacherdataConsolidated$tch_m6 <- NULL
basicTeacherdataConsolidated$tch_m7 <- NULL

basicTeacherdataConsolidated$tch_f_total <-
basicTeacherdataConsolidated$tch_f1+
  basicTeacherdataConsolidated$tch_f2+
  basicTeacherdataConsolidated$tch_f3+
  basicTeacherdataConsolidated$tch_f4+
```

```r
  basicTeacherdataConsolidated$tch_f5+
  basicTeacherdataConsolidated$tch_f6+
  basicTeacherdataConsolidated$tch_f7

basicTeacherdataConsolidated$tch_f1 <- NULL
basicTeacherdataConsolidated$tch_f2 <- NULL
basicTeacherdataConsolidated$tch_f3 <- NULL
basicTeacherdataConsolidated$tch_f4 <- NULL
basicTeacherdataConsolidated$tch_f5 <- NULL
basicTeacherdataConsolidated$tch_f6 <- NULL
basicTeacherdataConsolidated$tch_f7 <- NULL

basicTeacherdataConsolidated$tch_nr_total <-
basicTeacherdataConsolidated$tch_nr1+
  basicTeacherdataConsolidated$tch_nr2+
  basicTeacherdataConsolidated$tch_nr3+
  basicTeacherdataConsolidated$tch_nr4+
  basicTeacherdataConsolidated$tch_nr5+
  basicTeacherdataConsolidated$tch_nr6+
  basicTeacherdataConsolidated$tch_nr7

basicTeacherdataConsolidated$tch_nr1 <- NULL
basicTeacherdataConsolidated$tch_nr2 <- NULL
basicTeacherdataConsolidated$tch_nr3 <- NULL
basicTeacherdataConsolidated$tch_nr4 <- NULL
basicTeacherdataConsolidated$tch_nr5 <- NULL
basicTeacherdataConsolidated$tch_nr6 <- NULL
basicTeacherdataConsolidated$tch_nr7 <- NULL


basicTeacherdataConsolidated$tch_m_p_total <-
basicTeacherdataConsolidated$tch_m_p1+
  basicTeacherdataConsolidated$tch_m_p2+
  basicTeacherdataConsolidated$tch_m_p3+
  basicTeacherdataConsolidated$tch_m_p4+
  basicTeacherdataConsolidated$tch_m_p5+
  basicTeacherdataConsolidated$tch_m_p6+
  basicTeacherdataConsolidated$tch_m_p7

basicTeacherdataConsolidated$tch_m_p1 <- NULL
basicTeacherdataConsolidated$tch_m_p2 <- NULL
basicTeacherdataConsolidated$tch_m_p3 <- NULL
basicTeacherdataConsolidated$tch_m_p4 <- NULL
basicTeacherdataConsolidated$tch_m_p5 <- NULL
basicTeacherdataConsolidated$tch_m_p6 <- NULL
basicTeacherdataConsolidated$tch_m_p7 <- NULL

basicTeacherdataConsolidated$tch_f_p_total <-
basicTeacherdataConsolidated$tch_f_p1+
```

```
    basicTeacherdataConsolidated$tch_f_p2+
    basicTeacherdataConsolidated$tch_f_p3+
    basicTeacherdataConsolidated$tch_f_p4+
    basicTeacherdataConsolidated$tch_f_p5+
    basicTeacherdataConsolidated$tch_f_p6+
    basicTeacherdataConsolidated$tch_f_p7

basicTeacherdataConsolidated$tch_f_p1 <- NULL
basicTeacherdataConsolidated$tch_f_p2 <- NULL
basicTeacherdataConsolidated$tch_f_p3 <- NULL
basicTeacherdataConsolidated$tch_f_p4 <- NULL
basicTeacherdataConsolidated$tch_f_p5 <- NULL
basicTeacherdataConsolidated$tch_f_p6 <- NULL
basicTeacherdataConsolidated$tch_f_p7 <- NULL

basicTeacherdataConsolidated$tch_nr_p1 <- NULL
basicTeacherdataConsolidated$tch_nr_p2 <- NULL
basicTeacherdataConsolidated$tch_nr_p3 <- NULL
basicTeacherdataConsolidated$tch_nr_p4 <- NULL
basicTeacherdataConsolidated$tch_nr_p5 <- NULL
basicTeacherdataConsolidated$tch_nr_p6 <- NULL
basicTeacherdataConsolidated$tch_nr_p7 <- NULL

basicTeacherdataConsolidated$tch_eduqual_nr1 <- NULL
basicTeacherdataConsolidated$tch_eduqual_nr2 <- NULL
basicTeacherdataConsolidated$tch_eduqual_nr3 <- NULL
basicTeacherdataConsolidated$tch_eduqual_nr4 <- NULL
basicTeacherdataConsolidated$tch_eduqual_nr5 <- NULL
basicTeacherdataConsolidated$tch_eduqual_nr6 <- NULL
basicTeacherdataConsolidated$tch_eduqual_nr7 <- NULL
basicTeacherdataConsolidated$tch_eduqual_nr_p <- NULL


basicTeacherdataConsolidated$tch_sc_m_total <-
basicTeacherdataConsolidated$tch_sc_m1+
    basicTeacherdataConsolidated$tch_sc_m2+
    basicTeacherdataConsolidated$tch_sc_m3+
    basicTeacherdataConsolidated$tch_sc_m4+
    basicTeacherdataConsolidated$tch_sc_m5+
    basicTeacherdataConsolidated$tch_sc_m6+
    basicTeacherdataConsolidated$tch_sc_m7

basicTeacherdataConsolidated$tch_sc_m1 <- NULL
basicTeacherdataConsolidated$tch_sc_m2 <- NULL
basicTeacherdataConsolidated$tch_sc_m3 <- NULL
basicTeacherdataConsolidated$tch_sc_m4 <- NULL
basicTeacherdataConsolidated$tch_sc_m5 <- NULL
basicTeacherdataConsolidated$tch_sc_m6 <- NULL
```

```
basicTeacherdataConsolidated$tch_sc_m7 <- NULL


basicTeacherdataConsolidated$tch_sc_f_total <-
basicTeacherdataConsolidated$tch_sc_f1+
  basicTeacherdataConsolidated$tch_sc_f2+
  basicTeacherdataConsolidated$tch_sc_f3+
  basicTeacherdataConsolidated$tch_sc_f4+
  basicTeacherdataConsolidated$tch_sc_f5+
  basicTeacherdataConsolidated$tch_sc_f6+
  basicTeacherdataConsolidated$tch_sc_f7

basicTeacherdataConsolidated$tch_sc_f1 <- NULL
basicTeacherdataConsolidated$tch_sc_f2 <- NULL
basicTeacherdataConsolidated$tch_sc_f3 <- NULL
basicTeacherdataConsolidated$tch_sc_f4 <- NULL
basicTeacherdataConsolidated$tch_sc_f5 <- NULL
basicTeacherdataConsolidated$tch_sc_f6 <- NULL
basicTeacherdataConsolidated$tch_sc_f7 <- NULL


basicTeacherdataConsolidated$tch_st_m_total <-
basicTeacherdataConsolidated$tch_st_m1+
  basicTeacherdataConsolidated$tch_st_m2+
  basicTeacherdataConsolidated$tch_st_m3+
  basicTeacherdataConsolidated$tch_st_m4+
  basicTeacherdataConsolidated$tch_st_m5+
  basicTeacherdataConsolidated$tch_st_m6+
  basicTeacherdataConsolidated$tch_st_m7

basicTeacherdataConsolidated$tch_st_m1 <- NULL
basicTeacherdataConsolidated$tch_st_m2 <- NULL
basicTeacherdataConsolidated$tch_st_m3 <- NULL
basicTeacherdataConsolidated$tch_st_m4 <- NULL
basicTeacherdataConsolidated$tch_st_m5 <- NULL
basicTeacherdataConsolidated$tch_st_m6 <- NULL
basicTeacherdataConsolidated$tch_st_m7 <- NULL


basicTeacherdataConsolidated$tch_st_f_total <-
basicTeacherdataConsolidated$tch_st_f1+
  basicTeacherdataConsolidated$tch_st_f2+
  basicTeacherdataConsolidated$tch_st_f3+
  basicTeacherdataConsolidated$tch_st_f4+
  basicTeacherdataConsolidated$tch_st_f5+
  basicTeacherdataConsolidated$tch_st_f6+
  basicTeacherdataConsolidated$tch_st_f7

basicTeacherdataConsolidated$tch_st_f1 <- NULL
```

```r
basicTeacherdataConsolidated$tch_st_f2 <- NULL
basicTeacherdataConsolidated$tch_st_f3 <- NULL
basicTeacherdataConsolidated$tch_st_f4 <- NULL
basicTeacherdataConsolidated$tch_st_f5 <- NULL
basicTeacherdataConsolidated$tch_st_f6 <- NULL
basicTeacherdataConsolidated$tch_st_f7 <- NULL


basicTeacherdataConsolidated$tch_pd_p <- NULL

basicTeacherdataConsolidated$trn_tch_m_total <-
basicTeacherdataConsolidated$trn_tch_m1+
  basicTeacherdataConsolidated$trn_tch_m2+
  basicTeacherdataConsolidated$trn_tch_m3+
  basicTeacherdataConsolidated$trn_tch_m4+
  basicTeacherdataConsolidated$trn_tch_m5+
  basicTeacherdataConsolidated$trn_tch_m6+
  basicTeacherdataConsolidated$trn_tch_m7

basicTeacherdataConsolidated$trn_tch_m1 <- NULL
basicTeacherdataConsolidated$trn_tch_m2 <- NULL
basicTeacherdataConsolidated$trn_tch_m3 <- NULL
basicTeacherdataConsolidated$trn_tch_m4 <- NULL
basicTeacherdataConsolidated$trn_tch_m5 <- NULL
basicTeacherdataConsolidated$trn_tch_m6 <- NULL
basicTeacherdataConsolidated$trn_tch_m7 <- NULL


basicTeacherdataConsolidated$trn_tch_f_total <-
basicTeacherdataConsolidated$trn_tch_f1+
  basicTeacherdataConsolidated$trn_tch_f2+
  basicTeacherdataConsolidated$trn_tch_f3+
  basicTeacherdataConsolidated$trn_tch_f4+
  basicTeacherdataConsolidated$trn_tch_f5+
  basicTeacherdataConsolidated$trn_tch_f6+
  basicTeacherdataConsolidated$trn_tch_f7

basicTeacherdataConsolidated$trn_tch_f1 <- NULL
basicTeacherdataConsolidated$trn_tch_f2 <- NULL
basicTeacherdataConsolidated$trn_tch_f3 <- NULL
basicTeacherdataConsolidated$trn_tch_f4 <- NULL
basicTeacherdataConsolidated$trn_tch_f5 <- NULL
basicTeacherdataConsolidated$trn_tch_f6 <- NULL
basicTeacherdataConsolidated$trn_tch_f7 <- NULL


## Basic Enrollment Data cleaning
basicEnrollmentDataConsolidated[,6:166] =
factorsNumeric(basicEnrollmentDataConsolidated[,6:166])
```

```r
basicEnrollmentDataConsolidated$Enr_Govt_total <-
basicEnrollmentDataConsolidated$`Enr Govt1`+
  basicEnrollmentDataConsolidated$`Enr Govt2`+
  basicEnrollmentDataConsolidated$`Enr Govt3`+
  basicEnrollmentDataConsolidated$`Enr Govt4`+
  basicEnrollmentDataConsolidated$`Enr Govt5`+
  basicEnrollmentDataConsolidated$`Enr Govt6`+
  basicEnrollmentDataConsolidated$`Enr Govt7`

basicEnrollmentDataConsolidated$`Enr Govt1` <- NULL
basicEnrollmentDataConsolidated$`Enr Govt2` <- NULL
basicEnrollmentDataConsolidated$`Enr Govt3` <- NULL
basicEnrollmentDataConsolidated$`Enr Govt4` <- NULL
basicEnrollmentDataConsolidated$`Enr Govt5` <- NULL
basicEnrollmentDataConsolidated$`Enr Govt6` <- NULL
basicEnrollmentDataConsolidated$`Enr Govt7` <- NULL
basicEnrollmentDataConsolidated$`Enr Govt9` <- NULL

basicEnrollmentDataConsolidated$Enr_Pvt_total <-
basicEnrollmentDataConsolidated$`Enr Pvt1`+
  basicEnrollmentDataConsolidated$`Enr Pvt2`+
  basicEnrollmentDataConsolidated$`Enr Pvt3`+
  basicEnrollmentDataConsolidated$`Enr Pvt4`+
  basicEnrollmentDataConsolidated$`Enr Pvt5`+
  basicEnrollmentDataConsolidated$`Enr Pvt6`+
  basicEnrollmentDataConsolidated$`Enr Pvt7`

basicEnrollmentDataConsolidated$`Enr Pvt1` <- NULL
basicEnrollmentDataConsolidated$`Enr Pvt2` <- NULL
basicEnrollmentDataConsolidated$`Enr Pvt3` <- NULL
basicEnrollmentDataConsolidated$`Enr Pvt4` <- NULL
basicEnrollmentDataConsolidated$`Enr Pvt5` <- NULL
basicEnrollmentDataConsolidated$`Enr Pvt6` <- NULL
basicEnrollmentDataConsolidated$`Enr Pvt7` <- NULL
basicEnrollmentDataConsolidated$`Enr Pvt9` <- NULL

basicEnrollmentDataConsolidated$Enr_Govt_R_total <-
basicEnrollmentDataConsolidated$`Enr R Govt1`+
  basicEnrollmentDataConsolidated$`Enr R Govt2`+
  basicEnrollmentDataConsolidated$`Enr R Govt3`+
  basicEnrollmentDataConsolidated$`Enr R Govt4`+
  basicEnrollmentDataConsolidated$`Enr R Govt5`+
  basicEnrollmentDataConsolidated$`Enr R Govt6`+
  basicEnrollmentDataConsolidated$`Enr R Govt7`

basicEnrollmentDataConsolidated$`Enr R Govt1` <- NULL
basicEnrollmentDataConsolidated$`Enr R Govt2` <- NULL
basicEnrollmentDataConsolidated$`Enr R Govt3` <- NULL
basicEnrollmentDataConsolidated$`Enr R Govt4` <- NULL
```

```r
basicEnrollmentDataConsolidated$`Enr R Govt5` <- NULL
basicEnrollmentDataConsolidated$`Enr R Govt6` <- NULL
basicEnrollmentDataConsolidated$`Enr R Govt7` <- NULL
basicEnrollmentDataConsolidated$`Enr R Govt9` <- NULL


basicEnrollmentDataConsolidated$Enr_R_Pvt_total <-
basicEnrollmentDataConsolidated$`Enr R Pvt1`+
  basicEnrollmentDataConsolidated$`Enr R Pvt2`+
  basicEnrollmentDataConsolidated$`Enr R Pvt3`+
  basicEnrollmentDataConsolidated$`Enr R Pvt4`+
  basicEnrollmentDataConsolidated$`Enr R Pvt5`+
  basicEnrollmentDataConsolidated$`Enr R Pvt6`+
  basicEnrollmentDataConsolidated$`Enr R Pvt7`

basicEnrollmentDataConsolidated$`Enr R Pvt1` <- NULL
basicEnrollmentDataConsolidated$`Enr R Pvt2` <- NULL
basicEnrollmentDataConsolidated$`Enr R Pvt3` <- NULL
basicEnrollmentDataConsolidated$`Enr R Pvt4` <- NULL
basicEnrollmentDataConsolidated$`Enr R Pvt5` <- NULL
basicEnrollmentDataConsolidated$`Enr R Pvt6` <- NULL
basicEnrollmentDataConsolidated$`Enr R Pvt7` <- NULL
basicEnrollmentDataConsolidated$`Enr R Pvt9` <- NULL


basicEnrollmentDataConsolidated$Enr_py4_c1_total <-
basicEnrollmentDataConsolidated$`Enr Py4 C1`+
  basicEnrollmentDataConsolidated$`Enr Py4 C2`+
  basicEnrollmentDataConsolidated$`Enr Py4 C3`+
  basicEnrollmentDataConsolidated$`Enr Py4 C4`+
  basicEnrollmentDataConsolidated$`Enr Py4 C5`+
  basicEnrollmentDataConsolidated$`Enr Py4 C6`+
  basicEnrollmentDataConsolidated$`Enr Py4 C7`+
  basicEnrollmentDataConsolidated$`Enr Py4 C8`

basicEnrollmentDataConsolidated$`Enr Py4 C1` <- NULL
basicEnrollmentDataConsolidated$`Enr Py4 C2` <- NULL
basicEnrollmentDataConsolidated$`Enr Py4 C3` <- NULL
basicEnrollmentDataConsolidated$`Enr Py4 C4` <- NULL
basicEnrollmentDataConsolidated$`Enr Py4 C5` <- NULL
basicEnrollmentDataConsolidated$`Enr Py4 C6` <- NULL
basicEnrollmentDataConsolidated$`Enr Py4 C7` <- NULL
basicEnrollmentDataConsolidated$`Enr Py4 C8` <- NULL

basicEnrollmentDataConsolidated$Enr_py3_c1_total <-
basicEnrollmentDataConsolidated$`Enr Py3 C1`+
  basicEnrollmentDataConsolidated$`Enr Py3 C2`+
  basicEnrollmentDataConsolidated$`Enr Py3 C3`+
  basicEnrollmentDataConsolidated$`Enr Py3 C4`+
```

```r
  basicEnrollmentDataConsolidated$`Enr Py3 C5`+
  basicEnrollmentDataConsolidated$`Enr Py3 C6`+
  basicEnrollmentDataConsolidated$`Enr Py3 C7`+
  basicEnrollmentDataConsolidated$`Enr Py3 C8`

basicEnrollmentDataConsolidated$`Enr Py3 C1` <- NULL
basicEnrollmentDataConsolidated$`Enr Py3 C2` <- NULL
basicEnrollmentDataConsolidated$`Enr Py3 C3` <- NULL
basicEnrollmentDataConsolidated$`Enr Py3 C4` <- NULL
basicEnrollmentDataConsolidated$`Enr Py3 C5` <- NULL
basicEnrollmentDataConsolidated$`Enr Py3 C6` <- NULL
basicEnrollmentDataConsolidated$`Enr Py3 C7` <- NULL
basicEnrollmentDataConsolidated$`Enr Py3 C8` <- NULL

basicEnrollmentDataConsolidated$Enr_py2_c1_total <-
basicEnrollmentDataConsolidated$`Enr Py2 C1`+
  basicEnrollmentDataConsolidated$`Enr Py2 C2`+
  basicEnrollmentDataConsolidated$`Enr Py2 C3`+
  basicEnrollmentDataConsolidated$`Enr Py2 C4`+
  basicEnrollmentDataConsolidated$`Enr Py2 C5`+
  basicEnrollmentDataConsolidated$`Enr Py2 C6`+
  basicEnrollmentDataConsolidated$`Enr Py2 C7`+
  basicEnrollmentDataConsolidated$`Enr Py2 C8`

basicEnrollmentDataConsolidated$`Enr Py2 C1` <- NULL
basicEnrollmentDataConsolidated$`Enr Py2 C2` <- NULL
basicEnrollmentDataConsolidated$`Enr Py2 C3` <- NULL
basicEnrollmentDataConsolidated$`Enr Py2 C4` <- NULL
basicEnrollmentDataConsolidated$`Enr Py2 C5` <- NULL
basicEnrollmentDataConsolidated$`Enr Py2 C6` <- NULL
basicEnrollmentDataConsolidated$`Enr Py2 C7` <- NULL
basicEnrollmentDataConsolidated$`Enr Py2 C8` <- NULL

basicEnrollmentDataConsolidated$Enr_Py1_c1_total <-
basicEnrollmentDataConsolidated$`Enr Py1 C1`+
  basicEnrollmentDataConsolidated$`Enr Py1 C2`+
  basicEnrollmentDataConsolidated$`Enr Py1 C3`+
  basicEnrollmentDataConsolidated$`Enr Py1 C4`+
  basicEnrollmentDataConsolidated$`Enr Py1 C5`+
  basicEnrollmentDataConsolidated$`Enr Py1 C6`+
  basicEnrollmentDataConsolidated$`Enr Py1 C7`+
  basicEnrollmentDataConsolidated$`Enr Py1 C8`

basicEnrollmentDataConsolidated$`Enr Py1 C1` <- NULL
basicEnrollmentDataConsolidated$`Enr Py1 C2` <- NULL
basicEnrollmentDataConsolidated$`Enr Py1 C3` <- NULL
basicEnrollmentDataConsolidated$`Enr Py1 C4` <- NULL
basicEnrollmentDataConsolidated$`Enr Py1 C5` <- NULL
basicEnrollmentDataConsolidated$`Enr Py1 C6` <- NULL
```

```r
basicEnrollmentDataConsolidated$`Enr Py1 C7` <- NULL
basicEnrollmentDataConsolidated$`Enr Py1 C8` <- NULL


basicEnrollmentDataConsolidated$Enr_Cy_c1_total <-
basicEnrollmentDataConsolidated$`Enr Cy C1`+
  basicEnrollmentDataConsolidated$`Enr Cy C2`+
  basicEnrollmentDataConsolidated$`Enr Cy C3`+
  basicEnrollmentDataConsolidated$`Enr Cy C4`+
  basicEnrollmentDataConsolidated$`Enr Cy C5`+
  basicEnrollmentDataConsolidated$`Enr Cy C6`+
  basicEnrollmentDataConsolidated$`Enr Cy C7`+
  basicEnrollmentDataConsolidated$`Enr Cy C8`

basicEnrollmentDataConsolidated$`Enr Cy C1` <- NULL
basicEnrollmentDataConsolidated$`Enr Cy C2` <- NULL
basicEnrollmentDataConsolidated$`Enr Cy C3` <- NULL
basicEnrollmentDataConsolidated$`Enr Cy C4` <- NULL
basicEnrollmentDataConsolidated$`Enr Cy C5` <- NULL
basicEnrollmentDataConsolidated$`Enr Cy C6` <- NULL
basicEnrollmentDataConsolidated$`Enr Cy C7` <- NULL
basicEnrollmentDataConsolidated$`Enr Cy C8` <- NULL

basicEnrollmentDataConsolidated$Enr_G_c_total <-
basicEnrollmentDataConsolidated$`Enr G C1`+
  basicEnrollmentDataConsolidated$`Enr G C2`+
  basicEnrollmentDataConsolidated$`Enr G C3`+
  basicEnrollmentDataConsolidated$`Enr G C4`+
  basicEnrollmentDataConsolidated$`Enr G C5`+
  basicEnrollmentDataConsolidated$`Enr G C6`+
  basicEnrollmentDataConsolidated$`Enr G C7`+
  basicEnrollmentDataConsolidated$`Enr G C8`

basicEnrollmentDataConsolidated$`Enr G C1` <- NULL
basicEnrollmentDataConsolidated$`Enr G C2` <- NULL
basicEnrollmentDataConsolidated$`Enr G C3` <- NULL
basicEnrollmentDataConsolidated$`Enr G C4` <- NULL
basicEnrollmentDataConsolidated$`Enr G C5` <- NULL
basicEnrollmentDataConsolidated$`Enr G C6` <- NULL
basicEnrollmentDataConsolidated$`Enr G C7` <- NULL
basicEnrollmentDataConsolidated$`Enr G C8` <- NULL


basicEnrollmentDataConsolidated$Enr_DIS_B_total <-
basicEnrollmentDataConsolidated$`Enr Dis B C1`+
  basicEnrollmentDataConsolidated$`Enr Dis B C2`+
  basicEnrollmentDataConsolidated$`Enr Dis B C3`+
  basicEnrollmentDataConsolidated$`Enr Dis B C4`+
  basicEnrollmentDataConsolidated$`Enr Dis B C5`+
```

```r
  basicEnrollmentDataConsolidated$`Enr Dis B C6`+
  basicEnrollmentDataConsolidated$`Enr Dis B C7`+
  basicEnrollmentDataConsolidated$`Enr Dis B C8`

basicEnrollmentDataConsolidated$`Enr Dis B C1` <- NULL
basicEnrollmentDataConsolidated$`Enr Dis B C2` <- NULL
basicEnrollmentDataConsolidated$`Enr Dis B C3` <- NULL
basicEnrollmentDataConsolidated$`Enr Dis B C4` <- NULL
basicEnrollmentDataConsolidated$`Enr Dis B C5` <- NULL
basicEnrollmentDataConsolidated$`Enr Dis B C6` <- NULL
basicEnrollmentDataConsolidated$`Enr Dis B C7` <- NULL
basicEnrollmentDataConsolidated$`Enr Dis B C8` <- NULL

basicEnrollmentDataConsolidated$Enr_DIS_G_total <-
basicEnrollmentDataConsolidated$`Enr Dis G C1`+
  basicEnrollmentDataConsolidated$`Enr Dis G C2`+
  basicEnrollmentDataConsolidated$`Enr Dis G C3`+
  basicEnrollmentDataConsolidated$`Enr Dis G C4`+
  basicEnrollmentDataConsolidated$`Enr Dis G C5`+
  basicEnrollmentDataConsolidated$`Enr Dis G C6`+
  basicEnrollmentDataConsolidated$`Enr Dis G C7`+
  basicEnrollmentDataConsolidated$`Enr Dis G C8`

basicEnrollmentDataConsolidated$`Enr Dis G C1` <- NULL
basicEnrollmentDataConsolidated$`Enr Dis G C2` <- NULL
basicEnrollmentDataConsolidated$`Enr Dis G C3` <- NULL
basicEnrollmentDataConsolidated$`Enr Dis G C4` <- NULL
basicEnrollmentDataConsolidated$`Enr Dis G C5` <- NULL
basicEnrollmentDataConsolidated$`Enr Dis G C6` <- NULL
basicEnrollmentDataConsolidated$`Enr Dis G C7` <- NULL
basicEnrollmentDataConsolidated$`Enr Dis G C8` <- NULL

basicEnrollmentDataConsolidated$Enr_Med1_total <-
basicEnrollmentDataConsolidated$`Enr Med1 1`+
  basicEnrollmentDataConsolidated$`Enr Med1 2`+
  basicEnrollmentDataConsolidated$`Enr Med1 3`+
  basicEnrollmentDataConsolidated$`Enr Med1 4`+
  basicEnrollmentDataConsolidated$`Enr Med1 5`+
  basicEnrollmentDataConsolidated$`Enr Med1 6`+
  basicEnrollmentDataConsolidated$`Enr Med1 7`

basicEnrollmentDataConsolidated$`Enr Med1 1` <- NULL
basicEnrollmentDataConsolidated$`Enr Med1 2` <- NULL
basicEnrollmentDataConsolidated$`Enr Med1 3` <- NULL
basicEnrollmentDataConsolidated$`Enr Med1 4` <- NULL
basicEnrollmentDataConsolidated$`Enr Med1 5` <- NULL
basicEnrollmentDataConsolidated$`Enr Med1 6` <- NULL
basicEnrollmentDataConsolidated$`Enr Med1 7` <- NULL
```

```r
basicEnrollmentDataConsolidated$Enr_Med2_total <-
basicEnrollmentDataConsolidated$`Enr Med2 1`+
  basicEnrollmentDataConsolidated$`Enr Med2 2`+
  basicEnrollmentDataConsolidated$`Enr Med2 3`+
  basicEnrollmentDataConsolidated$`Enr Med2 4`+
  basicEnrollmentDataConsolidated$`Enr Med2 5`+
  basicEnrollmentDataConsolidated$`Enr Med2 6`+
  basicEnrollmentDataConsolidated$`Enr Med2 7`

basicEnrollmentDataConsolidated$`Enr Med2 1` <- NULL
basicEnrollmentDataConsolidated$`Enr Med2 2` <- NULL
basicEnrollmentDataConsolidated$`Enr Med2 3` <- NULL
basicEnrollmentDataConsolidated$`Enr Med2 4` <- NULL
basicEnrollmentDataConsolidated$`Enr Med2 5` <- NULL
basicEnrollmentDataConsolidated$`Enr Med2 6` <- NULL
basicEnrollmentDataConsolidated$`Enr Med2 7` <- NULL

basicEnrollmentDataConsolidated$Enr_Med3_total <-
basicEnrollmentDataConsolidated$`Enr Med3 1`+
  basicEnrollmentDataConsolidated$`Enr Med3 2`+
  basicEnrollmentDataConsolidated$`Enr Med3 3`+
  basicEnrollmentDataConsolidated$`Enr Med3 4`+
  basicEnrollmentDataConsolidated$`Enr Med3 5`+
  basicEnrollmentDataConsolidated$`Enr Med3 6`+
  basicEnrollmentDataConsolidated$`Enr Med3 7`

basicEnrollmentDataConsolidated$`Enr Med3 1` <- NULL
basicEnrollmentDataConsolidated$`Enr Med3 2` <- NULL
basicEnrollmentDataConsolidated$`Enr Med3 3` <- NULL
basicEnrollmentDataConsolidated$`Enr Med3 4` <- NULL
basicEnrollmentDataConsolidated$`Enr Med3 5` <- NULL
basicEnrollmentDataConsolidated$`Enr Med3 6` <- NULL
basicEnrollmentDataConsolidated$`Enr Med3 7` <- NULL

basicEnrollmentDataConsolidated$`Gerup Py1` <- NULL
basicEnrollmentDataConsolidated$`Gerup Py2` <- NULL

basicEnrollmentDataConsolidated$`Nerup Py1` <- NULL
basicEnrollmentDataConsolidated$`Nerup Py2` <- NULL

basicEnrollmentDataConsolidated$`Gerp Py1` <- NULL
basicEnrollmentDataConsolidated$`Gerp Py2` <- NULL

basicEnrollmentDataConsolidated$`Nerp Py1` <- NULL
basicEnrollmentDataConsolidated$`Nerp Py2` <- NULL

basicEnrollmentDataConsolidated$Rep_C_total <-
basicEnrollmentDataConsolidated$`Rep C1`+
  basicEnrollmentDataConsolidated$`Rep C2`+
```

```
  basicEnrollmentDataConsolidated$`Rep C3`+
  basicEnrollmentDataConsolidated$`Rep C4`+
  basicEnrollmentDataConsolidated$`Rep C5`+
  basicEnrollmentDataConsolidated$`Rep C6`+
  basicEnrollmentDataConsolidated$`Rep C7`+
  basicEnrollmentDataConsolidated$`Rep C8`

basicEnrollmentDataConsolidated$`Rep C1` <- NULL
basicEnrollmentDataConsolidated$`Rep C2` <- NULL
basicEnrollmentDataConsolidated$`Rep C3` <- NULL
basicEnrollmentDataConsolidated$`Rep C4` <- NULL
basicEnrollmentDataConsolidated$`Rep C5` <- NULL
basicEnrollmentDataConsolidated$`Rep C6` <- NULL
basicEnrollmentDataConsolidated$`Rep C7` <- NULL
basicEnrollmentDataConsolidated$`Rep C8` <- NULL


alldataconsolidated <-
merge(basicDataConsolidated,basicSchoolDataConsolidated,by.x=c('distcd','year
','distname','statename','statecd'),by.y=c('distcd','year','distname','staten
ame','statecd'))

alldataconsolidated[,6:57] <- factorsNumeric(alldataconsolidated[,6:57])

write.csv(alldataconsolidated,file = "mergeddata1.csv")


# replaces na with '0'
alldataconsolidated[is.na(alldataconsolidated)] <- 0
data1 <- cor(alldataconsolidated[,6:57])
basicEnrollmentDataConsolidated$statecd <-
basicEnrollmentDataConsolidated$Statecd
basicEnrollmentDataConsolidated$statename <-
basicEnrollmentDataConsolidated$`State Name `
alldataconsolidated_2 <-
merge(basicEnrollmentDataConsolidated,basicTeacherdataConsolidated,
                        by.x = c('Year','statename','distname'),
                        by.y = c('Year','statename','distname'))



alldataconsolidated_2[,7:84] <- factorsNumeric(alldataconsolidated_2[,7:84])

#Unnecessary data
alldataconsolidated_2$`Gerp Cy` <- NULL
alldataconsolidated_2$`Gerup Cy` <- NULL
alldataconsolidated_2$`Nerp Cy` <- NULL
alldataconsolidated_2$`Nerup Cy` <- NULL
data <- cor(alldataconsolidated_2[,7:80])
```

```r
##due to multi collinearity we are removing some fields
alldataconsolidated_2$`Sc Enrup Cy` <- NULL
alldataconsolidated_2$`Scg Enrp Cy` <- NULL
alldataconsolidated_2$`Scg Enrup Cy` <- NULL
data <- cor(alldataconsolidated_2[,7:77])
alldataconsolidated_2$`Grossness Up` <- NULL
alldataconsolidated_2$`Pc Girls` <- NULL
data <- cor(alldataconsolidated_2[,7:75])

alldataConsolidated_final <- merge(alldataconsolidated,alldataconsolidated_2,
                                   by.x = c('year','statename','distname')
                                   ,by.y = c('Year','statename','distname'))

alldataConsolidated_final$statecd.x <- NULL
alldataConsolidated_final$statecd.y <- NULL
alldataConsolidated_final$distcd.x <- NULL
alldataConsolidated_final$distcd.y <- NULL
alldataConsolidated_final$`State Name ` <- NULL
alldataConsolidated_final[,6:124] <-
factorsNumeric(alldataConsolidated_final[,6:124])

alldataConsolidated_final$sdg_total <- alldataConsolidated_final$`sdg 1`+
  alldataConsolidated_final$`sdg 2`+
  alldataConsolidated_final$`sdg 3`+
  alldataConsolidated_final$`sdg 4`+
  alldataConsolidated_final$`sdg 5`+
  alldataConsolidated_final$`sdg 6`+
  alldataConsolidated_final$`sdg 7`

alldataConsolidated_final$`sdg 1` <- NULL
alldataConsolidated_final$`sdg 2`<- NULL
alldataConsolidated_final$`sdg 3`<- NULL
alldataConsolidated_final$`sdg 4`<- NULL
alldataConsolidated_final$`sdg 5`<- NULL
alldataConsolidated_final$`sdg 6`<- NULL
alldataConsolidated_final$`sdg 7`<- NULL

alldataConsolidated_final$tlm_total <- alldataConsolidated_final$`tlm 1`+
  alldataConsolidated_final$`tlm 2`+
  alldataConsolidated_final$`tlm 3`+
  alldataConsolidated_final$`tlm 4`+
  alldataConsolidated_final$`tlm 5`+
  alldataConsolidated_final$`tlm 6`+
  alldataConsolidated_final$`tlm 7`

alldataConsolidated_final$`tlm 1` <- NULL
alldataConsolidated_final$`tlm 2`<- NULL
alldataConsolidated_final$`tlm 3`<- NULL
```

```
alldataConsolidated_final$`tlm 4`<- NULL
alldataConsolidated_final$`tlm 5`<- NULL
alldataConsolidated_final$`tlm 6`<- NULL
alldataConsolidated_final$`tlm 7`<- NULL
alldataConsolidated_final$Statecd <- NULL

colSums(is.na(alldataConsolidated_final))
```

```
##                    year              statename                distname
##                       0                      0                       0
##                  distcd                statecd                  blocks
##                       0                      0                       0
##                clusters               villages               totschools
##                       0                      0                       0
##            totpopulation              p_urb_pop                 sexratio
##                       0                      0                       0
##              growthrate               p_sc_pop                 p_st_pop
##                       0                      0                       0
##             overall_lit             female_lit              cls1 school
##                       0                      0                       0
##              tch1 school             gtoilet sch               water sch
##                       0                      0                       0
##              enr stch sch             no fem sch               sch 50enr
##                       0                      0                       0
##                 tot cls               cls good                cls major
##                       0                      0                       0
##               cls minor              cls other            schgovt_total
##                       0                      0                       0
##             schpvt_total        sch_r_govt_total          sch_r_pvt_total
##                       0                      0                       0
## sch since 2003 1_total          kitshed_total         btoilet sch_total
##                       0                      0                       0
##        electric sch_total     computer sch_total               mdm_total
##                       0                      0                       0
##               smc_total           sch_un_total              books_total
##                       0                      0                       0
##            uniform_total               Sc Enrp Cy              St Enrp Cy
##                       0                      0                       0
##              Stg Enrp Cy             St Enrup Cy              Stg Enrup Cy
##                       0                      0                       0
##               Pc Girls1              Pc Girls2                Pc Girls3
##                       0                      0                       0
##               Pc Girls4              Pc Girls5              Grossness P
##                       0                      0                       0
##                Muslim P              Muslim Up               Muslim G P
##                       0                      0                       0
##              Muslim G Up                  Obc P                   Obc Up
##                       0                      0                       0
##                 Obc G P               Obc G Up            Enr_Govt_total
##                       0                      0                       0
```

```
##         Enr_Pvt_total         Enr_Govt_R_total         Enr_R_Pvt_total
##                     0                        0                       0
##       Enr_py4_c1_total         Enr_py3_c1_total        Enr_py2_c1_total
##                     0                        0                       0
##       Enr_Py1_c1_total          Enr_Cy_c1_total           Enr_G_c_total
##                     0                        0                       0
##       Enr_DIS_B_total          Enr_DIS_G_total            Enr_Med1_total
##                     0                        0                       0
##         Enr_Med2_total           Enr_Med3_total              Rep_C_total
##                     0                        0                       0
##               tch_bs_p                  tch_s_p                 tch_hs_p
##                     0                        0                       0
##             tch_grad_p              tch_pgrad_p               tch_mph_p
##                     0                        0                       0
##         prof_trn_tch_r           prof_trn_tch_p              days_nontch
##                     0                        0                       0
##             tch_nontch           tch_govt_total            tch_pvt_total
##                     0                        0                       0
##           tch_un_total             tch_bs_total              tch_s_total
##                     0                        0                       0
##           tch_hs_total           tch_grad_total           tch_pgrad_total
##                     0                        0                       0
##          tch_mph_total             tch_pd_total               tch_m_total
##                     0                        0                       0
##            tch_f_total              tch_nr_total             tch_m_p_total
##                     0                        0                       0
##           tch_f_p_total           tch_sc_m_total            tch_sc_f_total
##                     0                        0                       0
##          tch_st_m_total           tch_st_f_total           trn_tch_m_total
##                     0                        0                       0
##         trn_tch_f_total               sdg_total                tlm_total
##                     0                        0                       0

# no NAs are present

#write.csv(alldataConsolidated_final,file = "final_data.csv")
```