##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

#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]  
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  
  
#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)  
#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  
  
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$schgovt2)+as.numeric(basicSchoolDataConsolidated$schgovt3)+as.numeric(basicSchoolDataConsolidated$schgovt4)+  
 as.numeric(basicSchoolDataConsolidated$schgovt5)+as.numeric(basicSchoolDataConsolidated$schgovt6)+as.numeric(basicSchoolDataConsolidated$schgovt7)+  
 as.numeric(basicSchoolDataConsolidated$schgovt9)  
basicSchoolDataConsolidated$schgovt1<- NULL  
basicSchoolDataConsolidated$schgovt2<- NULL  
basicSchoolDataConsolidated$schgovt3<- NULL  
basicSchoolDataConsolidated$schgovt4<- NULL  
basicSchoolDataConsolidated$schgovt5<- NULL  
basicSchoolDataConsolidated$schgovt6<- NULL  
basicSchoolDataConsolidated$schgovt7<- NULL  
basicSchoolDataConsolidated$schgovt9<- NULL  
  
basicSchoolDataConsolidated$schpvt\_total <- as.numeric(basicSchoolDataConsolidated$schpvt1)+as.numeric(basicSchoolDataConsolidated$schpvt2)+  
 as.numeric(basicSchoolDataConsolidated$schpvt3)+as.numeric(basicSchoolDataConsolidated$schpvt4)+as.numeric(basicSchoolDataConsolidated$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  
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## [749] 3 3 2 85 75 2 33 75 75 49 3 75 2 3 49 3 2  
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## [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  
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## [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  
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## [1021] 41 27 82 12 58 39 75 39 4 50 34 2 114 91 44 54 59  
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## [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  
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## [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  
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+as.numeric(basicSchoolDataConsolidated$schpvt7)+as.numeric(basicSchoolDataConsolidated$schpvt9)

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## [1310] 5 41 5 4 92 94 94 75 107 63 94 4 6 106 5

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`)+  
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 as.numeric(basicSchoolDataConsolidated$`sch r govt9`)  
  
basicSchoolDataConsolidated$`sch r govt1` <- NULL  
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basicSchoolDataConsolidated$`sch r govt6` <- NULL  
basicSchoolDataConsolidated$`sch r govt7` <- NULL  
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as.numeric(basicSchoolDataConsolidated$`sch r pvt5`)+  
as.numeric(basicSchoolDataConsolidated$`sch r pvt6`)+  
as.numeric(basicSchoolDataConsolidated$`sch r pvt7`)+  
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basicSchoolDataConsolidated$`sch r pvt6` <- NULL  
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basicSchoolDataConsolidated$`cls1 school1` <- NULL  
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basicSchoolDataConsolidated$`pp sch3` <- NULL  
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basicSchoolDataConsolidated$`gtoilet sch5` <- NULL  
basicSchoolDataConsolidated$`gtoilet sch6` <- NULL  
basicSchoolDataConsolidated$`gtoilet sch7` <- NULL  
  
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basicSchoolDataConsolidated$`enr stch sch5` <- NULL  
basicSchoolDataConsolidated$`enr stch sch6` <- NULL  
basicSchoolDataConsolidated$`enr stch sch7` <- NULL  
  
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basicSchoolDataConsolidated$`no fem sch5` <- NULL  
basicSchoolDataConsolidated$`no fem sch6` <- NULL  
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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`)+  
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 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$kitshed\_total <- as.numeric(basicSchoolDataConsolidated$kitshed1)+  
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 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`)+  
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 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`)+  
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 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$`cls good1` <- NULL  
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basicSchoolDataConsolidated$`cls good6` <- NULL  
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basicSchoolDataConsolidated$`cls major` <- as.numeric(basicSchoolDataConsolidated$`cls major1`)+  
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 as.numeric(basicSchoolDataConsolidated$`cls major5`)+  
 as.numeric(basicSchoolDataConsolidated$`cls major6`)+  
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basicSchoolDataConsolidated$`cls major1` <- NULL  
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 as.numeric(basicSchoolDataConsolidated$`cls minor5`)+  
 as.numeric(basicSchoolDataConsolidated$`cls minor6`)+  
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 as.numeric(basicSchoolDataConsolidated$`cls other3`)+  
 as.numeric(basicSchoolDataConsolidated$`cls other4`)+  
 as.numeric(basicSchoolDataConsolidated$`cls other5`)+  
 as.numeric(basicSchoolDataConsolidated$`cls other6`)+  
 as.numeric(basicSchoolDataConsolidated$`cls other7`)  
  
basicSchoolDataConsolidated$`cls other1` <- NULL  
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basicSchoolDataConsolidated$`cls other3` <- NULL  
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basicSchoolDataConsolidated$`cls other6` <- NULL  
basicSchoolDataConsolidated$`cls other7` <- NULL  
  
basicSchoolDataConsolidated$`btoilet sch\_total` <- as.numeric(basicSchoolDataConsolidated$`btoilet sch1`)+  
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 as.numeric(basicSchoolDataConsolidated$`btoilet sch5`)+  
 as.numeric(basicSchoolDataConsolidated$`btoilet sch6`)+  
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basicSchoolDataConsolidated$`btoilet sch1` <- NULL  
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basicSchoolDataConsolidated$`btoilet sch6` <- NULL  
basicSchoolDataConsolidated$`btoilet sch7` <- NULL  
  
basicSchoolDataConsolidated$`electric sch\_total` <- as.numeric(basicSchoolDataConsolidated$`electric sch1`)+  
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 as.numeric(basicSchoolDataConsolidated$`electric sch5`)+  
 as.numeric(basicSchoolDataConsolidated$`electric sch6`)+  
 as.numeric(basicSchoolDataConsolidated$`electric sch7`)  
  
basicSchoolDataConsolidated$`electric sch1` <- NULL  
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basicSchoolDataConsolidated$`electric sch3` <- NULL  
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basicSchoolDataConsolidated$`electric sch6` <- NULL  
basicSchoolDataConsolidated$`electric sch7` <- NULL  
  
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 as.numeric(basicSchoolDataConsolidated$`computer sch5`)+  
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basicSchoolDataConsolidated$`computer sch1` <- NULL  
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basicSchoolDataConsolidated$`computer sch5` <- NULL  
basicSchoolDataConsolidated$`computer sch6` <- NULL  
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 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$`mdm 3` <- NULL  
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basicSchoolDataConsolidated$`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`) +  
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 as.numeric(basicSchoolDataConsolidated$`sch un3`)+  
 as.numeric(basicSchoolDataConsolidated$`sch un4`)+  
 as.numeric(basicSchoolDataConsolidated$`sch un5`)+  
 as.numeric(basicSchoolDataConsolidated$`sch un6`)+  
 as.numeric(basicSchoolDataConsolidated$`sch un7`)+  
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basicSchoolDataConsolidated$`sch un1` <- NULL  
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basicSchoolDataConsolidated$`sch un3` <- NULL  
basicSchoolDataConsolidated$`sch un4` <- NULL  
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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  
  
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  
  
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$tch\_f4+  
 basicTeacherdataConsolidated$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$tch\_st\_f1 <- NULL  
basicTeacherdataConsolidated$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])  
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  
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$`Enr Py3 C4`+  
 basicEnrollmentDataConsolidated$`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  
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`+  
 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  
  
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','statename','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])  
  
##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")