Senate Data Exploration

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4/16/2020

R Markdown

##

Finegold, Barry R.

```
install.packages('dplyr')
## Installing package into '/home/rstudio-user/R/x86_64-pc-linux-gnu-library/3.6'
## (as 'lib' is unspecified)
library(dplyr)
##
## 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
#Upload Data
senate = read.csv("UpdatedSenateData.csv")
district = read.csv("DistrictOnly.csv")
#Collapse Data to Organize by Senator for donations less than $1000
senate$Districtnumber = district
data_under1000 = senate[senate$Amount<=1000,]</pre>
byrep = group_by (data_under1000, Recipient)
reps <- summarise(byrep, AverageContribution = mean(Amount, na.rm = TRUE), TotalAmount = sum(Amount, na
colnames(reps)=c("Senator", "Average Contribution", "Total Amount")
reps$Party = Party
#Find distribution of error addresses
badaddress = senate[senate$Districtnumber == "42" | senate$Districtnumber == "43",]
table(badaddress$Recipient)/table(senate$Recipient)
##
##
        Barrett, Michael J.
                              Boncore, Joseph Angelo
                                                           Brady, Michael D.
##
                                         0.35204082
                                                                  0.21500000
                0.11271676
                                 Comerford, Joanne
##
     Chandler, Harriette L.
                                                           Cyr, Julian Andre
                                         0.22093023
##
                0.53954082
                                                                  0.37811203
##
            Eldridge, James
                                     Fattman, Ryan
                                                                Feeney, Paul
##
                0.13815090
                                         0.17445055
                                                                  0.17763158
```

Gobi, Anne M.

Hinds, Adam Gray

```
##
                  0.18865979
                                            0.27419355
                                                                       0.25789474
             Keenan, John F.
                                       Kennedy, Edward
                                                             Lesser, Eric Phillip
##
                                            0.14048059
##
                  0.14640884
                                                                       0.16363636
##
                Lewis, Jason
                                          Lovely, Joan
                                                                   Moore, Michael
##
                  0.17468106
                                            0.08495575
                                                                       0.15479452
## O'Connor, Patrick Michael
                                      Pacheco, Marc R.
                                                            Rausch, Rebecca Lynne
                  0.17293233
                                            0.24297753
                                                                       0.11779242
##
                                      Rush, Michael F.
       Rodrigues, Michael J.
##
                                                                    Spilka, Karen
##
                  0.29356061
                                            0.18668122
                                                                       0.26574307
##
                                         Tran, Dean A.
                                                                  Welch, James T.
          Timilty, Walter F.
##
                  0.15661253
                                            0.21268293
                                                                       0.24225352
#Subsetting Paul Feeney
FeeneyAll = subset(senate, Recipient == "Feeney, Paul" )
Feeney_under1000 = subset(FeeneyAll, Amount <= 1000)</pre>
Feeney_under1000_individual = subset(data_under1000, Recipient == "Feeney, Paul" & Record.Type.Descript
Feeneydistrict_under1000 = subset(Feeney_under1000_individual, (City == "Mansfield" | City == "Walpole"
S9a = sum(Feeneydistrict_under1000$Amount)/sum(Feeney_under1000_individual$Amount)
S9b= sum(Feeneydistrict_under1000$Amount)/sum(FeeneyAll$Amount)
S9c=sum(Feeneydistrict_under1000$Amount)/sum(Feeney_under1000$Amount)
#Subsetting Michael Barrett
BarrettAll = subset(senate, Recipient == "Barrett, Michael J.")
Barrett_under1000 = subset(BarrettAll, Amount <= 1000)</pre>
Barrett_under1000_individual = subset(Barrett_under1000, Record.Type.Description == "Individual")
Barrettdistrict_under1000 = subset(Barrett_under1000_individual, (City == "Waltham" | City == "Bedford"
S1a = sum(Barrettdistrict_under1000$Amount)/sum(Barrett_under1000_individual$Amount)
S1b= sum(Barrettdistrict_under1000$Amount)/sum(BarrettAll$Amount)
S1c=sum(Barrettdistrict under1000$Amount)/sum(Barrett under1000$Amount)
#Subsetting Joseph Boncore
BoncoreAll = subset(senate, Recipient == "Boncore, Joseph Angelo" )
Boncore under1000 = subset(BoncoreAll, Amount <= 1000)</pre>
Boncore_under1000_individual = subset(Boncore_under1000, Record.Type.Description == "Individual")
Boncoredistrict_under1000 = subset(Boncore_under1000_individual, (City == "Boston" | City == "Revere" |
S2a = sum(Boncoredistrict_under1000$Amount)/sum(Boncore_under1000_individual$Amount)
S2b= sum(Boncoredistrict_under1000$Amount)/sum(BoncoreAll$Amount)
S2c=sum(Boncoredistrict_under1000$Amount)/sum(Boncore_under1000$Amount)
#Subsetting Michael Brady
BradyAll = subset(senate, Recipient == "Brady, Michael D." )
Brady_under1000 = subset(BradyAll, Amount <= 1000)</pre>
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Brady_under1000_individual = subset(Brady_under1000, Record.Type.Description == "Individual")
Bradydistrict under1000 = subset(Brady under1000 individual, (City == "Brockton" | City == "East Bridge
S3a = sum(Bradydistrict_under1000$Amount)/sum(Brady_under1000_individual$Amount)
S3b= sum(Bradydistrict_under1000$Amount)/sum(BradyAll$Amount)
S3c=sum(Bradydistrict_under1000$Amount)/sum(Brady_under1000$Amount)
#Subsetting Harriette Chandler
ChandlerAll = subset(senate, Recipient == "Chandler, Harriette L." )
Chandler_under1000 = subset(ChandlerAll, Amount <= 1000)</pre>
Chandler_under1000_individual = subset(Chandler_under1000, Record.Type.Description == "Individual")
Chandlerdistrict_under1000 = subset(Chandler_under1000_individual, (City == "Boylston" | City == "Clint
S4a = sum(Chandlerdistrict under1000$Amount)/sum(Chandler under1000 individual$Amount)
S4b= sum(Chandlerdistrict_under1000$Amount)/sum(ChandlerAll$Amount)
S4c=sum(Chandlerdistrict under1000$Amount)/sum(Chandler under1000$Amount)
#Subsetting Harriette Finegold
FinegoldAll = subset(senate, Recipient == "Finegold, Barry R." )
Finegold_under1000 = subset(FinegoldAll, Amount <= 1000)</pre>
Finegold_under1000_individual = subset(Finegold_under1000, Record.Type.Description == "Individual")
Finegolddistrict_under1000 = subset(Finegold_under1000_individual, (City == "Lawrence" | City == "Andov
S10a = sum(Finegolddistrict_under1000$Amount)/sum(Finegold_under1000_individual$Amount)
S10b= sum(Finegolddistrict_under1000$Amount)/sum(FinegoldAll$Amount)
S10c=sum(Finegolddistrict_under1000$Amount)/sum(Finegold_under1000$Amount)
#Subsetting Joanne Comerford
ComerfordAll = subset(senate, Recipient == "Comerford, Joanne" )
Comerford under1000 = subset(ComerfordAll, Amount <= 1000)</pre>
Comerford_under1000_individual = subset(Comerford_under1000, Record.Type.Description == "Individual")
Comerforddistrict_under1000 = subset(Comerford_under1000_individual, (City == "Northampton" | City == ".
S5a = sum(Comerforddistrict_under1000$Amount)/sum(Comerford_under1000_individual$Amount)
S5b= sum(Comerforddistrict under1000$Amount)/sum(ComerfordAll$Amount)
S5c=sum(Comerforddistrict_under1000$Amount)/sum(Comerford_under1000$Amount)
#Subsetting Julian Cyr
CyrAll = subset(senate, Recipient == "Cyr, Julian Andre" )
Cyr_under1000 = subset(CyrAll, Amount <= 1000)</pre>
Cyr_under1000_individual = subset(Cyr_under1000, Record.Type.Description == "Individual")
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Cyrdistrict_under1000 = subset(Cyr_under1000_individual, (City == "Barnstable" | City == "Brewster" | C
S6a = sum(Cyrdistrict_under1000$Amount)/sum(Cyr_under1000_individual$Amount)
S6b= sum(Cyrdistrict_under1000$Amount)/sum(CyrAll$Amount)
S6c=sum(Cyrdistrict_under1000$Amount)/sum(Cyr_under1000$Amount)
#Subsetting James Eldridge
EldridgeAll = subset(senate, Recipient == "Eldridge, James" )
Eldridge_under1000 = subset(EldridgeAll, Amount <= 1000)</pre>
Eldridge under1000 individual = subset(Eldridge under1000, Record.Type.Description == "Individual")
Eldridgedistrict_under1000 = subset(Eldridge_under1000_individual, (City == "Marlborough" | City == "Ac
S7a = sum(Eldridgedistrict_under1000$Amount)/sum(Eldridge_under1000_individual$Amount)
S7b= sum(Eldridgedistrict_under1000$Amount)/sum(EldridgeAll$Amount)
S7c=sum(Eldridgedistrict_under1000$Amount)/sum(Eldridge_under1000$Amount)
#Subsetting Ryan Fattman
FattmanAll = subset(senate, Recipient == "Fattman, Ryan" )
Fattman_under1000 = subset(FattmanAll, Amount <= 1000)</pre>
Fattman_under1000_individual = subset(Fattman_under1000, Record.Type.Description == "Individual")
Fattmandistrict under1000 = subset(Fattman under1000 individual, (City == "Blackston" | City == "Dougla
S8a = sum(Fattmandistrict_under1000$Amount)/sum(Fattman_under1000_individual$Amount)
S8b= sum(Fattmandistrict_under1000$Amount)/sum(FattmanAll$Amount)
S8c=sum(Fattmandistrict_under1000$Amount)/sum(Fattman_under1000$Amount)
#Subsetting Anne Gobi
GobiAll = subset(senate, Recipient == "Gobi, Anne M." )
Gobi_under1000 = subset(GobiAll, Amount <= 1000)</pre>
Gobi_under1000_individual = subset(Gobi_under1000, Record.Type.Description == "Individual")
Gobidistrict_under1000 = subset(Gobi_under1000_individual, (City == "Ashburnham" | City == "Athol" | Ci
S11a = sum(Gobidistrict_under1000$Amount)/sum(Gobi_under1000_individual$Amount)
S11b= sum(Gobidistrict_under1000$Amount)/sum(GobiAll$Amount)
S11c=sum(Gobidistrict_under1000$Amount)/sum(Gobi_under1000$Amount)
```