Дескриптивна статистика

3 курс, статистика, Шкляр Ірина Володимирівна

Завдання 3

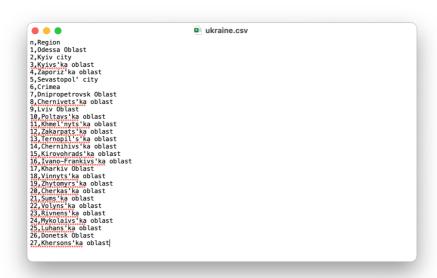
Я вибрала такі запити:

- Королева Єлизавета
- Борис Джонсон

Та взяла дані саме з запитів в Україні.

Таблички geomap.csv та ukraine.csv:

```
Region, perc_Elis, perc_Boris
Odessa Oblast, 70, 30
Kyiv city, 65, 35
Kyivs ka oblast, 62, 38
Zaporiz'ka oblast, 68, 32
Sevastopol' city, 86, 14
Crimea, 84, 16
Dnipropetrovsk Oblast, 66, 34
Chernivets' ka oblast, 61, 39
Livi Oblast, 56, 44
Poltays' ka oblast, 61, 39
Zakarpats' ka oblast, 61, 39
Ternopil's' ka oblast, 61, 39
Ternopil's' ka oblast, 61, 39
Ternopil's' ka oblast, 63, 35
Kirvohrads' ka oblast, 63, 38
Lyano-Frankivs' ka oblast, 62, 38
Lyano-Frankivs' ka oblast, 63, 44
Kharkiv Oblast, 70, 39
Vinnyts' ka oblast, 61, 39
Cherkas' ka oblast, 63, 42
Sums' ka oblast, 63, 40
Mykolajvs' ka oblast, 60, 40
Mykolajvs' ka oblast, 63, 37
```



```
> setwd("/Users/irynashkliar/Downloads/map")
> dat<-read.csv("geoMap.csv",header=T,stringsAsFactors = F)
> nams<-read.csv("ukraine.csv",header=T)
> datn<-merge(nams,dat,by="Region",all=T)
> x<-datn$perc_Elis/(datn$perc_Elis+datn$perc_Boris)
> install.packages('terra', repos='https://rspatial.r-universe.dev')
> install.packages('raster')
> library(raster)
> library('sp')
> install.packages('maptools')
> library('maptools')
> ukraine <- getData('GADM', country='UKR', level=1)
> save(ukraine,file="/Users/irynashkliar/Downloads/ukrmap.Rdata")
> load(ukraine)
> numcol<-7
> brkMP<-c(min(x)-0.001,seq(min(x)+0.001,max(x)+0.001,length.out=numcol+1))
> intMP<-numcol+2-findInterval(x,brkMP)
> palette(c(heat.colors(numcol, alpha = 1),rgb(1,1,1)))
> par(xpd=TRUE)
> par(mar=c(0,0,0,0))
> plot(ukraine,col=intMP[order(datn$n)])
> legend("bottomright",title="Queen
%",legend=c("<85","<75","<60","<50","<30","<20","<10","0"),fill=c(heat.colors(numcol,
alpha = 1),rgb(1,1,1)),inset=0,horiz = F)
```

