Assignment 5.1

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Batch : DA with R , Excel and Tableau

1. How many vowels are there in the names of USA States?

View(USArrests)

#to know the names of the columns

names(USArrests)

# to get the row names, i.e the USA states

US\_States<-rownames(USArrests)

US\_States

#is basically "if not any of 'aeiouAEIOU' then 'C'

b<-gsub("[^aeiouAEIOU]","C",US\_States)

#if aeiouAEIOU is NOT in [], its a complete pattern.

# using ^ means, exclude what comes after this

b<-gsub("[^C]","V",b)# is "if not 'C', then 'V

b

library(stringr)

str\_count(b,"V") #counts character in a string

sum(str\_count(b,"V")) # sums the count of "V" i.e vowels

# 177 Vowels

2. Visualize the vowels distribution

vowel\_dist <- filter(distribution, letters %in% c("a","e","i","o","u"))

vowel\_dist

barplot(vowel\_dist$Freq, axes = TRUE, axisnames = TRUE, xlab = "Vowels", ylab = "frequency")