DATA ANALYTICS WITH R, EXCEL AND TABLAEU

ASSIGNMENT 5.1 ANSWERS

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Question no:

5)

1)

```
# vector of vowels

vowels = c("a", "e", "i", "o", "u")
# vector for storing results
num_vowels = vector(mode = "integer", length = 5)
# calculate number of vowels in each name
for (j in seq_along(vowels))
{
num_aux = str_count(tolower(states), vowels[j])
num_vowels[j] = sum(num_aux)
}
# add vowel names
names(num_vowels) = vowels
# total number of vowels
num_vowels
## a e i o u
## 61 28 44 36 8
# sort them in decreasing order
sort(num_vowels, decreasing = TRUE)
## a i o e u
## 61 44 36 28 8
```

2)

we can visualize the distribution with a barplot:

```
# barplot
barplot(num_vowels, main = "Number of vowels in USA States names",
border = NA, ylim = c(0, 80))
```

Number of vowels in USA States names