ACADGILD

# SESSION 5: Data Management Using R

## Assignment 1

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## 1. Introduction

This assignment will help you understand the concepts learnt in the session.

## 2. Objective

This assignment will test your skills on Data Management functions using R.

## 3. Prerequisites

Not applicable.

## 4. Associated Data Files

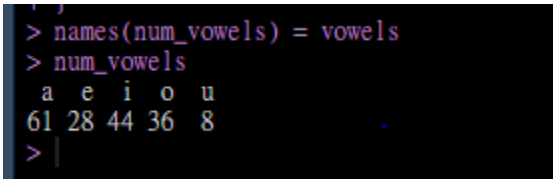
Not applicable.

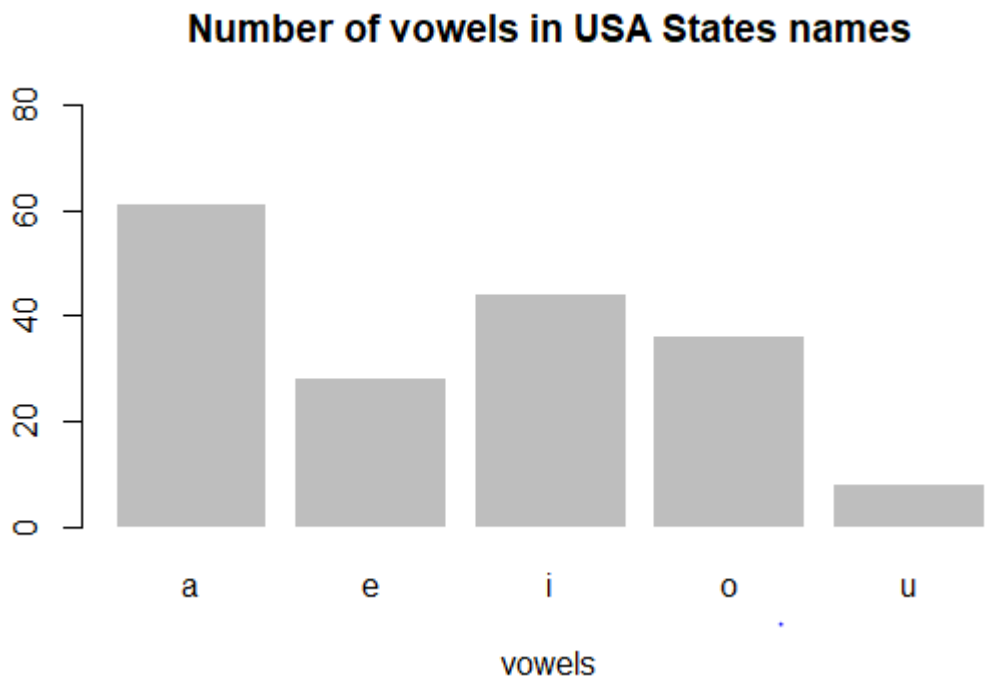
## 5. Problem Statement

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

**ANS:**

```
states=attributes(USArrests)$row.names
vowels = c("a", "e", "i", "o", "u")
num_vowels = vector(mode = "integer", length = 5)
for (j in seq_along(vowels)) {
num_aux = str_count(tolower(states), vowels[j])
 num_vowels[j] = sum(num_aux)
 }
 names(num_vowels) = vowels
 num_vowels
```



2. Visualize the vowels distribution.

**ANS** sort(num_vowels, decreasing = T)
barplot(num_vowels,main = "Number of vowels in USA States names",
border = NA,xlab ="vowels", ylim = c(0, 80))