Quiz 04

Dr. Hasthika Rupasinghe

02/07/2019

Name: ___________________________

1. Load the `Recidivism` dataset from the `resampledata` library. (Hint: Load the libary first, then load the data)

```
# Answer: Write the code here
#
#
#
```

2) Use the `str` command to looke at the structure of the data and get to know the variable names.

```
# Answer: Only write the code, not the output
#
#
#
```

For the rest of the problems, we only focus on two variables:

```
i. `Recid` - Whether they were sent back to prison or not
ii. `Age25` - Whether they were under 25 years of age or not
```

3) Create a barchart (using `ggplot`) and a table for the `Recid` variable

```
# Answer: Write the code, scatch the graph and the table
#
#
#
#
#
#
#
#
#
#
#
#
#
#
#
#
#
#
#
#
#
#
#
```

4) Create a contingency table sumarizing the realtionship between recidivism (`Recid`) by age (`Age25`)

```
# Answer: Write the code, scatch the table
#
#
#
#
#
#
#
#
#
#
```

5) Of those under 25 years of age, what proportion were sent back to prison? Of those under 25 years of age, what is that persentage?

Hint: Complete the follwoing code to answer the question.

```
library(tidyverse)
library(knitr)

age25_back <- Recidivism %>%
  group_by(Age25) %>%
    summarize(Proportion = sum(________ == "___")/ sum(______ == "____" | _____ == "____"))

kable(age25_back)
```

```
# Answer: Complete the code above, scatch the table, answer the question.
#
#
#
#
#
#
#
#
#
#
#
#
#
#
#
#
#
#
#
#
#
```