WS #8 - Factor variables

Wednesday, February 19, 2025

 DS 002R - Jo Hardin

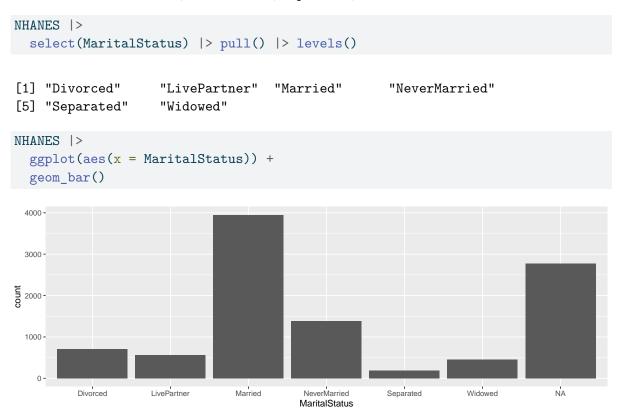
Name:

Names of people you worked with: _

Do you go to the mentor sessions? How can you get the most out of the mentor sessions?

Task:

- 1. How would you order MaritalStatus in a more meaningful way?
- 2. Fill in the last 4 columns of the table below as if for rows of MaritalStatus that contain the values Divorced, LivePartner, Separated, or Widowed?



```
NHANES |>
select(MaritalStatus) |>
sample_n(10) |>
mutate(Mar_num = as.numeric(MaritalStatus),
    Mar_num_1 = as.numeric(MaritalStatus) + 1,
    Mar_char = as.character(MaritalStatus),
    Mar_change = ifelse(MaritalStatus == "Married", "Lol", MaritalStatus))
```

A tibble: 10 x 5 MaritalStatus Mar_num Mar_num_1 Mar_char Mar_change <fct> <dbl> <dbl> <chr> <chr> 1 NeverMarried 4 5 NeverMarried 4 3 2 Married 4 Married Lol 3 Married 3 4 Married Lol 4 NeverMarried 4 5 NeverMarried 4 5 <NA> NA <NA> NA <NA> 6 Married 4 Married 3 Lol 7 Married 3 4 Married Lol 8 <NA> NA NA <NA> <NA> 9 Married 3 4 Married Lol 10 Married 3 4 Married Lol

Solution:

1. I'm not sure that there is a single right answer, but one potential ordering is:

```
NeverMarried, LivePartner, Married, Separated, Divorced, Widowed
```

```
2.
```

9 <NA>

10 Widowed

```
set.seed(5)
NHANES |> select(MaritalStatus) |> sample_n(3) |>
  mutate(Mar_num = as.numeric(MaritalStatus),
         Mar_num_1 = as.numeric(MaritalStatus) + 1,
         Mar_char = as.character(MaritalStatus),
         Mar_change = ifelse(MaritalStatus == "Married", "Lol", MaritalStatus))
# A tibble: 3 x 5
  MaritalStatus Mar_num Mar_num_1 Mar_char
                                               Mar_change
                 <dbl>
                           <dbl> <chr>
  <fct>
                                                    <int>
                               NA <NA>
1 <NA>
                     NA
                                                       NΑ
2 NeverMarried
                     4
                               5 NeverMarried
                                                        4
3 LivePartner
                      2
                                3 LivePartner
                                                        2
set.seed(14)
NHANES |> select(MaritalStatus) |> sample_n(10) |>
  mutate(Mar_num = as.numeric(MaritalStatus),
         Mar num 1 = as.numeric(MaritalStatus) + 1,
         Mar char = as.character(MaritalStatus),
         Mar_change = ifelse(MaritalStatus == "Married", "Lol", MaritalStatus))
# A tibble: 10 x 5
   MaritalStatus Mar_num Mar_num_1 Mar_char
                                             Mar_change
                   <dbl>
   <fct>
                             <dbl> <chr>
                                             <chr>
 1 Married
                       3
                                 4 Married
                                             Lol
 2 Married
                       3
                                 4 Married
                                             Lol
 3 Married
                       3
                                 4 Married
                                             Lol
 4 Separated
                      5
                                 6 Separated 5
 5 Divorced
                      1
                                 2 Divorced 1
 6 Married
                      3
                                4 Married
                                            Lol
 7 Married
                                4 Married
                      3
                                             Lol
 8 Married
                      3
                                4 Married
                                             Lol
```

<NA>

6

NA <NA>

7 Widowed

NA

6