Module 2 - Factor

Rsquared Academy

2021-03-05

Import Data & Load Libraries

```
analytics <- readRDS("analytics_raw.rds")
library(forcats)</pre>
```

- 1. Check whether the below variables are factor
 - device
 - page_depth
 - landing_page

```
is.factor(analytics$device)
```

[1] FALSE

is.factor(analytics\$page_depth)

[1] FALSE

is.factor(analytics\$landing_page)

[1] FALSE

- 2. Coerce the following variables to type factor
 - device
 - os
 - browser
 - user_type
 - channel
 - gender
 - landing_page
 - exit_page
 - city
 - country
 - user_type

```
<- as.factor(analytics$device)</pre>
analytics$device
                         <- as.factor(analytics$os)</pre>
analytics$os
                       <- as.factor(analytics$browser)</pre>
analytics$browser
analytics$user_type <- as.factor(analytics$user_type)</pre>
analytics$channel
                        <- as.factor(analytics$channel)</pre>
analytics$gender
                        <- as.factor(analytics$gender)</pre>
analytics$landing_page <- as.factor(analytics$landing_page)</pre>
analytics$exit_page <- as.factor(analytics$exit_page)</pre>
analytics$country
                         <- as.factor(analytics$country)</pre>
analytics$user_rating <- as.factor(analytics$user_rating)</pre>
```

- 3. Use only the following levels in the gender column:
 - male

61617 40565

• female

```
table(factor(analytics$gender, levels = c("male", "female")))
##
## male female
```

4. Include NA as a level in the gender column.

```
table(factor(analytics$gender, levels = c("male", "female", NA)))
```

```
## ## male female
## 61617 40565
```

5. Change label of NA to missing in the gender column.

```
## ## male female missing
## 61617 40565 0
```

- 6. Change the labels of the levels in user_type column to
 - New
 - Returning

```
##
      179045
                 65353
  7. Check if the user_rating column is ordered. If not, coerce it to type ordered factor.
# membership testing
is.ordered(analytics$user_rating)
## [1] FALSE
# using ordered
table(ordered(analytics$user_rating, levels = c("1", "2", "3", "4", "5")))
##
##
       1
                      3
## 14664
          4888 12220 158859 53767
# using factor
table(factor(analytics$user_rating,
      levels = c("1", "2", "3", "4", "5"),
      ordered = TRUE))
##
        1
               2
                      3
##
  14664
            4888 12220 158859 53767
```

##

new returning