# Assignment 2: Survey developpment

105.708 Data Acquisition and Survey Methods

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## Introducction

## topic

blabla

#### Hypothesis

blabla

### question

blaba

#### Data exploration

```
file_path <- "./data/group_3.csv"
rawData <- read.csv(file_path, sep=";")</pre>
# rename the column in a english friendly format
colnames(rawData)[4] <- "answer_1"</pre>
colnames(rawData)[5] <- "answer_2"</pre>
colnames(rawData)[6] <- "answer_3"</pre>
print(head(rawData))
    Gender Age
                             Academic.Program answer_1
## 1 female 23 Data Science / MSc / TU Wien
       male 21 Data Science / MSc / TU Wien
                                                    180
## 3 female 23 Data Science / MSc / TU Wien
                                                    90
## 4 female 24 Data Science / MSc / TU Wien
                                                    140
       male 22 Data Science / MSc / TU Wien
                                                    100
## 6
       male 25
                                Data Science
                                                    50
##
                                     answer 2
## 1
## 2 5 (I think I should send way less time)
## 3 5 (I think I should send way less time)
## 4
                                            4
## 5
                                            4
## 6
                                            4
##
                                        answer 3
## 1
                                   YouTube video
## 2
                                   YouTube video
## 3 YouTube shorts - Tiktoks - Intsagram reels
## 4
                               TV shows (series)
## 5
                                   YouTube video
## 6
                                   YouTube video
print(paste("The data set dimensions are ", dim(rawData)[1], " x ", dim(rawData)[2]))
```

#### Preprocessing

The columnss Gender and Age look nice and don't requier preprocessing.

## [1] "The data set dimensions are  $38 \times 6$ "

#### Academic programm

```
## 6
                                          Data Science
## 9
                  Business Informatics / BSc/ TU Wien
## 10
                                     MSc Data Science
                         Data Science / MSc / TU WIen
## 11
                                      Data Science Msc
## 17 Statistik und Wirtschaftsmathematik BSc TU Wien
                                     Data Science MSc.
## 23
## 25
## 28
                           Erasmus student, Statistic
## 34
            Data Science / MSc / University of Zagreb
## 36
                 Business Informatics / BSc / TU Wien
```

As we see the format differs for the academic program answer. Where we have missing information we associate them by default to Data Science / MSc / TU Wien. To say we change "Data Science", "MSc Data Science", "MSc", "Data Science Msc", "Data Science MSc." to "Data Science / MSc / TU Wien".

```
print(unique(rawData[3]))
```

```
##
                                       Academic.Program
## 1
                          Data Science / MSc / TU Wien
## 9
                   Business Informatics / BSc/ TU Wien
## 17 Statistik und Wirtschaftsmathematik BSc TU Wien
                            Erasmus student, Statistic
## 28
## 34
            Data Science / MSc / University of Zagreb
                  Business Informatics / BSc / TU Wien
## 36
rawData$answer_2 <- str_sub(rawData$answer_2, end = 2)</pre>
rawData$answer_2 <- as.numeric(rawData$answer_2)</pre>
for (i in 1:length(rawData$answer 1)){
  if(rawData$answer_1[i] <= 5){</pre>
    rawData$answer_1[i] <- rawData$answer_1[i] * 60</pre>
```

```
head(rawData)
```

} }

```
## 4 female 24 Data Science / MSc / TU Wien
                                                  140
      male 22 Data Science / MSc / TU Wien
                                                  100
                                                             4
## 6
       male 25 Data Science / MSc / TU Wien
                                                   50
##
                                       answer_3
## 1
                                  YouTube video
## 2
                                  YouTube video
## 3 YouTube shorts - Tiktoks - Intsagram reels
## 4
                              TV shows (series)
## 5
                                  YouTube video
## 6
                                  YouTube video
```

# Analysis

hypothesis 1

hypothesis 2

hypothesis 3

#### Conclusion