Week9_notebook

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3/21/2020

Library Imports

```
knitr::opts_chunk$set(echo = TRUE)
library(tidyverse)
library(psych)
library(ggplot2)
library(lubridate)
library(rmarkdown)
```

Data Import

- data import

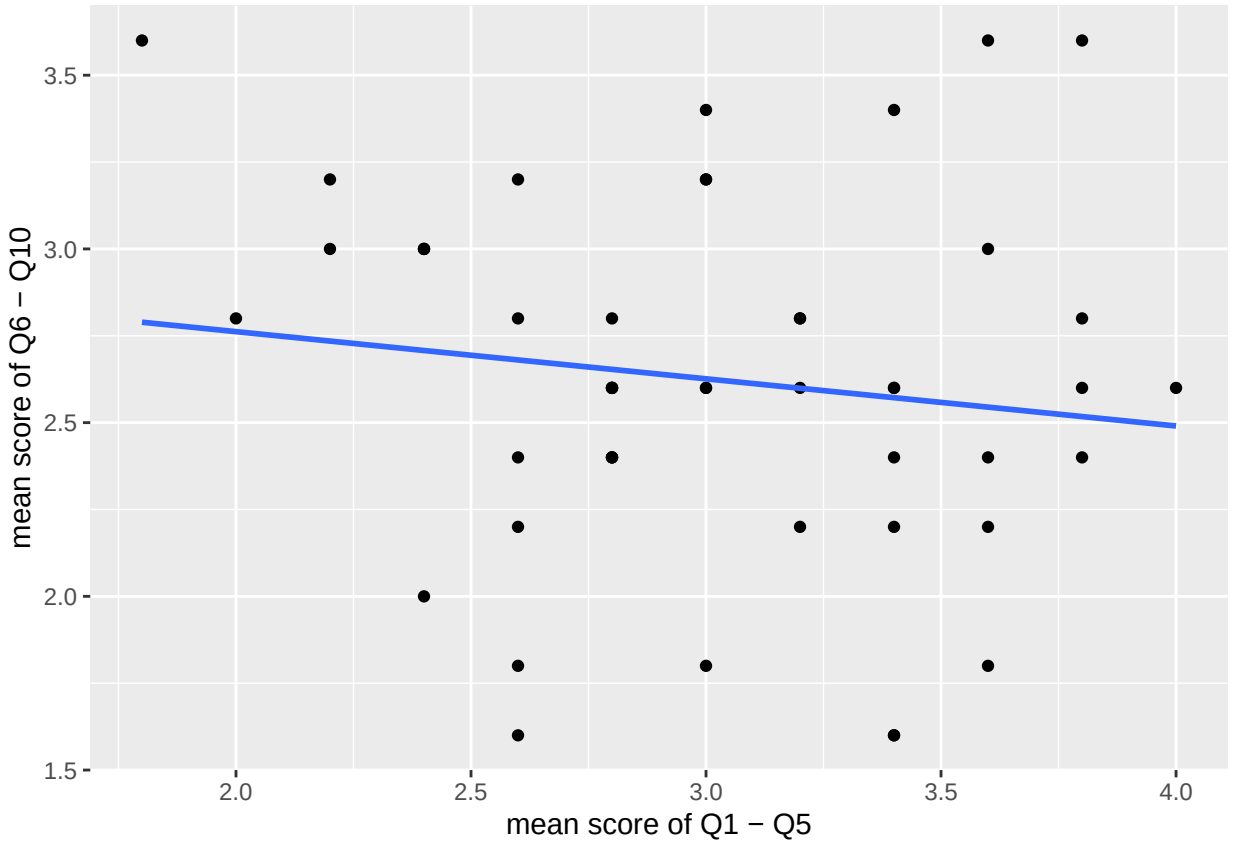
```
week8_tbl <- read_csv("../data/week3.csv")
```

```
## Parsed with column specification:
## cols(
##   timeStart = col_character(),
##   timeEnd = col_datetime(format = ""),
##   condition = col_character(),
##   gender = col_character(),
##   q1 = col_double(),
##   q2 = col_double(),
##   q3 = col_double(),
##   q4 = col_double(),
##   q5 = col_double(),
##   q6 = col_double(),
##   q7 = col_double(),
##   q8 = col_double(),
##   q9 = col_double(),
##   q10 = col_double()
## )
```

- type coercion: date

```
week8_tbl <- week8_tbl %>%
  mutate(timeStart = ymd_hms(timeStart), timeEnd = ymd_hms(timeEnd))
```

Visualization



The plot has mean scores of Q1 - Q5 on x-axis and mean scores of Q6 - Q10 on y-axis, with an OLS regression line.

Analysis

```
corData <- cor.test(rowMeans(week8_tbl[,paste0("q", 1:5)]), rowMeans(week8_tbl[,paste0("q", 6:10)]), me
(corData$estimate)
```

```
##        cor
## -0.1364998
```

```
(corData$p.value)
```

```
## [1] 0.3496752
```

The correlation was -0.1364998 (p>=.05), which is not statistically significant.