Week 9 Project

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Due March 24, 2020

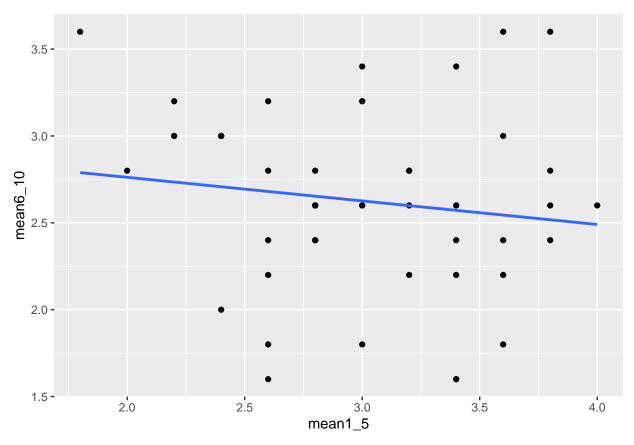
Libraries

Data Import

```
## 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()
```

- changed timeStart and timeEnd to POSIXct format
- created factors for condition and gender
- calculated mean score on questions 1 5
- calculated mean score on questions 6 10

Data Visualization



The plot shows the relationship between the mean score on questions 1 through 5 and the mean score on questions 6 through 10 where each point represents an individual and the line is the OLS regression line.

Analysis

```
r <- cor.test(week9_tbl$mean1_5, week9_tbl$mean6_10)
r

##

## Pearson's product-moment correlation
##

## data: week9_tbl$mean1_5 and week9_tbl$mean6_10
## t = -0.94464, df = 47, p-value = 0.3497
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.4022565 0.1504724
## sample estimates:
## cor
## -0.1364998</pre>
```

The correlation was -0.14 (p=0.35), which is not statistically significant.