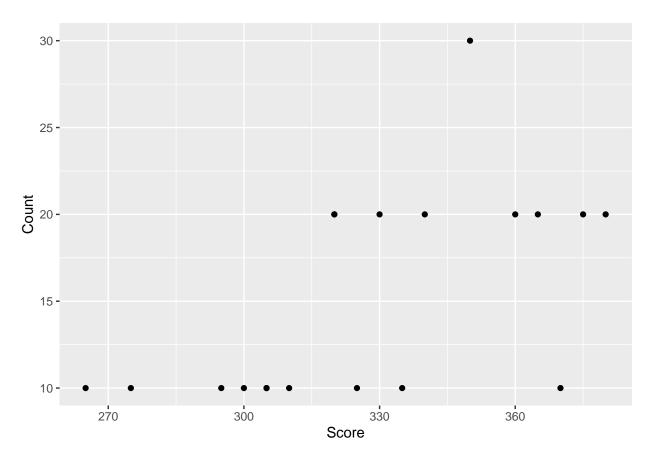
DSC520_Week1_Assignment00

Reenie Christudass

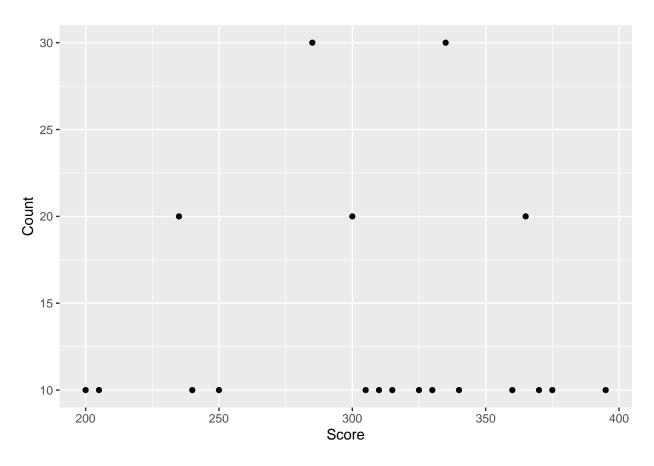
2022-07-11

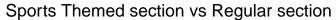
```
library(dplyr)
## Warning: package 'dplyr' was built under R version 4.2.1
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
       intersect, setdiff, setequal, union
##
library(tidyr)
## Warning: package 'tidyr' was built under R version 4.2.1
library(ggplot2)
## Read the file scores
df <- read.csv("C:/Users/chris/dsc520/data/scores.csv")</pre>
head(df)
##
   Count Score Section
## 1 10 200 Sports
## 2 10 205 Sports
## 3 20 235 Sports
     10 240 Sports
## 4
## 5
       10 250 Sports
## 6
       10 265 Regular
## Split the dataframe by section
sport_df <- df %>% filter(Section =='Sports')
sport_df <- sport_df[1:2]</pre>
head(sport_df)
```

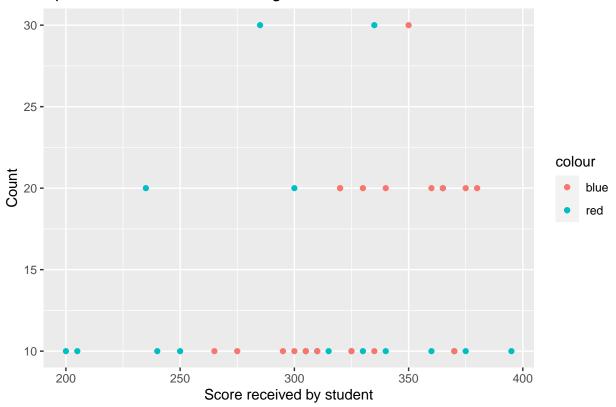
```
Count Score
        10
             200
## 1
## 2
        10
             205
## 3
        20
            235
## 4
        10
             240
        10
## 5
             250
## 6
        30
             285
regular_df <- df %>% filter(Section =='Regular')
regular_df <- regular_df[1:2]</pre>
head(regular_df)
     Count Score
##
## 1
        10
             265
## 2
        10
             275
## 3
        10
             295
## 4
        10
             300
## 5
        10
             305
## 6
             310
        10
print("Observational unit is - Professor teaching the student")
## [1] "Observational unit is - Professor teaching the student"
print("Categorical variables is Section ie Regular and Sport")
## [1] "Categorical variables is Section ie Regular and Sport"
print("Quantitative are Count and Score")
## [1] "Quantitative are Count and Score"
## Create Scatter lot of students attending Regular session
ggplot(regular_df, aes(x = Score, y = Count)) +
    geom_point()
```



```
## Create Scatter lot of students attending Sport session
ggplot(sport_df, aes(x = Score , y = Count)) +
    geom_point()
```







```
cat("Total Score in Sport Section =",sum(sport_df$Score),"\n")

## Total Score in Sport Section = 5840

cat("Total Count in Sport Section =",sum(sport_df$Count),"\n")

## Total Count in Sport Section = 260

cat(sum(sport_df$Score)/sum(sport_df$Count),"\n")
```

22.46154

```
mean(sport_df$Score)
```

[1] 307.3684

```
cat("Total Score in Regular Section =",sum(regular_df$Score),"\n")
```

Total Score in Regular Section = 6225

```
cat("Total Count in Regular Section =",sum(regular_df$Count),"\n")

## Total Count in Regular Section = 290

cat(sum(regular_df$Score)/sum(regular_df$Count),"\n")

## 21.46552

mean(regular_df$Score)

## [1] 327.6316

##Did every student in one section score more points than every student in the other section?
##If not, explain what a ##statistical tendency means in this context.

##"The Regular section had 30 more student enrolled in the program compared to Sport section.
##307.368 is mean for Sport section vs 327.632 is the mean for Regular Section "

##What could be one additional variable that was not mentioned in the narrative that could ##be influencing the point ##distributions between the two sections?
```

##"The professor who taught these two sections can greatly influence the distribution."