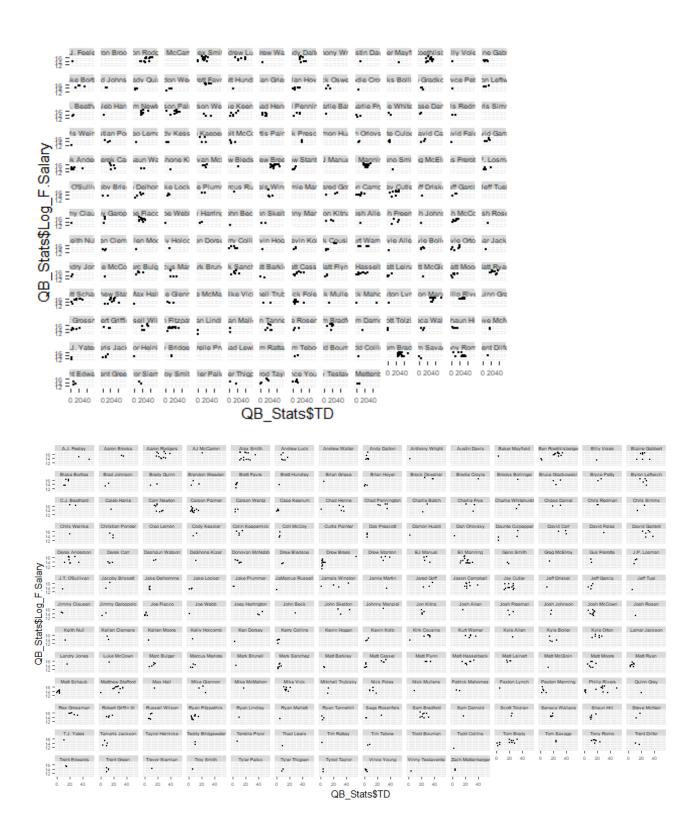
NFL Salary Research

Austin Miles

September 9, 2019

```
library(ggplot2)
## Warning: package 'ggplot2' was built under R version 3.5.3
library(readx1)
## Warning: package 'readxl' was built under R version 3.5.3
QB Stats <- read excel("QBstats.xlsx")</pre>
QB_Salary <- read_excel("QBsalaray.xlsx")</pre>
for (i in 1: 700){
  for (j in 1: 1340){
    if (QB_Stats[i, "Player"] == QB_Salary[j, "Player"]){
      if (QB_Stats[i, "Following Year"] == QB_Salary[j, "Year"]){
        QB_Stats[i, "Following Salary"] = QB_Salary[j, "base"]
      }}}
QB_Stats$Log_F.Salary <- log(QB_Stats$`Following Salary`)</pre>
head(QB_Stats[1:10,c("Player","TD","Following Salary")])
## # A tibble: 6 x 3
##
     Plaver
                           TD `Following Salary`
##
     <chr>
                        <dbl>
                                            <dbl>
## 1 Ben Roethlisberger
                                          2500000
                           34
## 2 Patrick Mahomes
                           50
                                          645000
## 3 Matt Ryan
                           35
                                          2750000
## 4 Jared Goff
                           32
                                          4259683
## 5 Andrew Luck
                           39
                                          9125000
                           25
## 6 Aaron Rodgers
                                          1100000
ggplot(QB Stats, aes(x = QB Stats$TD, y = QB Stats$Log F.Salary))+
         geom_point(colour = "black", size = .5) +
facet_wrap(~QB_Stats$Player)+
  theme(axis.text=element_text(size=5), strip.text = element_text(size = 5,
margin = margin()))
## Warning: Removed 95 rows containing missing values (geom point).
```



It is clear that the two outputs are different. The top one was done in R markdown and the bottom was done in the R script.