Daniel Davieau Unit 8 Homework 6371

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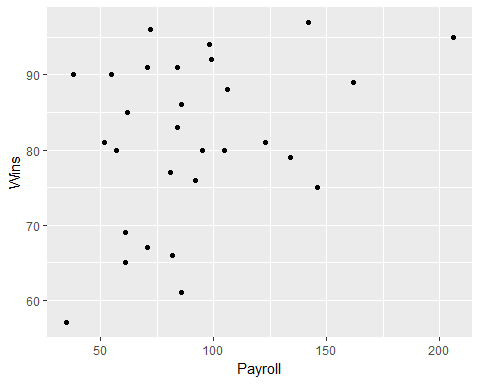
library(readr)  
library(ggplot2)  
setwd("~/GitHub/myfolders/Stats Unit 8 Homework/unit8data")  
Baseball\_Data <- read\_csv("Baseball\_Data.csv")

## Parsed with column specification:  
## cols(  
## TEAM = col\_character(),  
## Payroll = col\_integer(),  
## Wins = col\_integer()  
## )

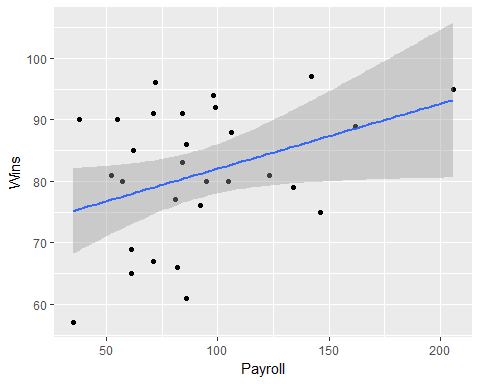
DeletedSD\_Baseball\_Data <- read\_csv("DeletedSD\_Baseball\_Data.csv")

## Parsed with column specification:  
## cols(  
## TEAM = col\_character(),  
## Payroll = col\_integer(),  
## Wins = col\_integer()  
## )

ggplot(Baseball\_Data, aes(x = Payroll, y = Wins)) + geom\_point()



# Add the regression line  
ggplot(Baseball\_Data, aes(x = Payroll, y = Wins)) + geom\_point() + geom\_smooth(method = lm)



cor(Baseball\_Data$Payroll, Baseball\_Data$Wins)

## [1] 0.366231

cor.test(Baseball\_Data$Payroll, Baseball\_Data$Wins)

##   
## Pearson's product-moment correlation  
##   
## data: Baseball\_Data$Payroll and Baseball\_Data$Wins  
## t = 2.0826, df = 28, p-value = 0.04654  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## 0.00686799 0.64181770  
## sample estimates:  
## cor   
## 0.366231

cor(DeletedSD\_Baseball\_Data$Payroll, DeletedSD\_Baseball\_Data$Wins)

## [1] 0.4255494

cor.test(DeletedSD\_Baseball\_Data$Payroll, DeletedSD\_Baseball\_Data$Wins)

##   
## Pearson's product-moment correlation  
##   
## data: DeletedSD\_Baseball\_Data$Payroll and DeletedSD\_Baseball\_Data$Wins  
## t = 2.4435, df = 27, p-value = 0.02136  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## 0.06995422 0.68518874  
## sample estimates:  
## cor   
## 0.4255494