MLB.National.League.Hitters.Data <- read.csv("~/Desktop/MLB National League Hitters Data.csv")

View(MLB.National.League.Hitters.Data)

nl<-(MLB.National.League.Hitters.Data)

nl2<-subset(nl, Position!="P")

View(nl2)

slices <- c(48, 27, 23, 29, 32, 27, 37, 24, 33, 20, 27)

lbls<- c("C", "P", "SS", "RF", "LF", "1B", "2B", "3B", "CF", "X", "DH")

pct <- round(slices/sum(slices)\*100),2)

lbls <- paste(lbls, pct)

lbls <- paste(lbls,"%",sep="")

pie(slices,labels = lbls, col=rainbow(length(lbls)),

+ main="Pie Chart of Positions")

#HISTOGRAMS no pitchers format

Hits<-nl2$Hits

hist(Hits)

so<- n12$Strike.Outs

hist(so)

RBI<-nl2$RBI

hist(RBI)

HR<-nl2$HomeRuns

hist(HR)

Walks<-nl2$Walks

hist(Walks)

#Histograms with Pitchers format

Hits<-nl$Hits

hist(Hits)

so<- n1$Strike.Outs

hist(so)

RBI<-nl$RBI

hist(RBI)

HR<-nl$HomeRuns

hist(HR)

Walks<-nl$Walks

hist(Walks)

#Hitting Averages With Pitchers

barplot(c(0.225428571, 0.219054054, 0.245708333, 0.258956522, 0.22196875, 0.212411765, 0.203827586, 0.231833333, 0.209357143, 0.1791, 0), main="Averages With Pitchers", xlab="Positions", ylab="Average", names.arg=c("1B", "2B", "3B", "SS", "LF", "CF", "RF", "C", "DH", "X", "P"))

#Hitting Averages Without Pitchers

barplot(c(0.225428571, 0.219054054, 0.245708333, 0.258956522, 0.22196875, 0.212411765, 0.203827586, 0.231833333, 0.209357143, 0.1791), main="Averages With No Pitchers", xlab="Positions", ylab="Average", names.arg=c("1B", "2B", "3B", "SS", "LF", "CF", "RF", "C", "DH", "X"))

#GGPlot2 Box Plots Variable Hits

install.packages('ggplot2')

library(ggplot2)

data(df)

ggplot(df, aes(hits)) + geom\_boxplot()

#GGPlot2 Box Plots Variable StrikeOuts

ggplot(df, aes(Strike.Outs)) + geom\_boxplot()

#GGPlot2 Box Plots Variable Walks

ggplot(df, aes(Walks)) + geom\_boxplot()

#Regression Hits and RBI

ggplot(nl2, aes(x=RBI, y=Hits)) + geom\_point(size=2, shape=23)

ggplot(nl2, aes(x=RBI, y=Hits)) + geom\_point()+geom\_smooth(method=lm)

#Regression Home Runs and RBI

ggplot(nl2, aes(x=RBI, y=HR)) + geom\_point(size=2, shape=23)

ggplot(nl2, aes(x=RBI, y=HR)) + geom\_point()+geom\_smooth(method=lm)