install.packages("ggplot2")

install.packages("dplyr")

install.packages("broom")

install.packages("ggpubr")

library(ggplot2)

library(dplyr)

library(broom)

library(ggpubr)

cor(NigDS[c('LEV', 'Fsiz','Bind','Bsiz','Fage', 'FRQ')])

hist(NigDS$FRQ)

plot(FRQ~LEV,data=NigDS)

plot(FRQ~Fsiz,data=NigDS)

summary(NigDS)

NigDS$X=as.factor(NigDS$X)

FRQ.lm <- lm(FRQ ~ LEV + Fsiz+ Bind + Fage + X, data = NigDS)

FRQ.lm

summary(FRQ.lm)

install.packages("tidyverse")

library(tidyverse)

NigDS = NigDS %>%

mutate(X = relevel(X, ref = "Pre"))

FRQ.lm <- lm(FRQ ~ LEV + Fsiz+ Bind + Fage + X, data = NigDS)

FRQ.lm

summary(FRQ.lm)

par(mfrow =c(1,1))

plot(FRQ.lm)

par(mfrow=c(0.5,0.5))

return()

NigDS$predicted.y <- predict.lm(FRQ.lm, data = NigDS)

FRQ.plot <- ggplot(NigDS, aes(x=LEV, y=FRQ, col = X)) +

geom\_point() +

geom\_line(data = NigDS, aes (x = LEV, y = predicted.y, color = X), size =1.25) +

theme\_bw() +

labs(title = "Finance Reporting Quality as a function \n of Leverage and IFRS status",

x = "Leverage (%)",

y = "Finance Reporting Quality",

color = "IFRS Status")

FRQ.plot

FRQ.plot1 <- ggplot(NigDS, aes(x=Fsiz, y=FRQ, col = X)) +

geom\_point() +

geom\_line(data = NigDS, aes (x = Fsiz, y = predicted.y, color = X), size =1.25) +

theme\_bw() +

labs(title = "Finance Reporting Quality as a function \n of Firm Size and IFRS status",

x = "Firm Size",

y = "Finance Reporting Quality",

color = "IFRS Status")

FRQ.plot1

FRQ.plot2 <- ggplot(NigDS, aes(x=Bsiz, y=FRQ, col = X)) +

geom\_point() +

geom\_line(data = NigDS, aes (x = Bsiz, y = predicted.y, color = X), size =1.25) +

theme\_bw() +

labs(title = "Finance Reporting Quality as a function \n of Board Size and IFRS status",

x = "Board Size",

y = "Finance Reporting Quality",

color = "IFRS Status")

FRQ.plot2

FRQ.plot3 <- ggplot(NigDS, aes(x=Bind, y=FRQ, col = X)) +

geom\_point() +

geom\_line(data = NigDS, aes (x = Bind, y = predicted.y, color = X), size =1.25) +

theme\_bw() +

labs(title = "Finance Reporting Quality as a function \n of Board independence and IFRS status",

x = "Board Independence (%)",

y = "Finance Reporting Quality",

color = "IFRS Status")

FRQ.plot3

FRQ.plot4 <- ggplot(NigDS, aes(x=Fage, y=FRQ, col = X)) +

geom\_point() +

geom\_line(data = NigDS, aes (x = Fage, y = predicted.y, color = X), size =1.25) +

theme\_bw() +

labs(title = "Finance Reporting Quality as a function \n of Firm Age and IFRS status",

x = "Firm Age",

y = "Finance Reporting Quality",

color = "IFRS Status")

FRQ.plot4

install.packages("patchwork")

library(patchwork)

waka <- (FRQ.plot|FRQ.plot1)/(FRQ.plot2|FRQ.plot3)/(FRQ.plot4)

waka

ggsave(filename = "FRQNGA.png", plot =waka,

width = 20, height = 25,dpi = 2500, units = "cm")

install.packages("ggplot2")

install.packages("dplyr")

install.packages("broom")

install.packages("ggpubr")

install.packages("tidyverse")

install.packages("patchwork")

library(patchwork)

library(tidyverse)

library(ggplot2)

library(dplyr)

library(broom)

library(ggpubr)

cor(NigDS[c('LEV', 'Fsiz','Bind','Bsiz','Fage', 'FRQ')])

hist(NigDS$FRQ)

plot(FRQ~LEV,data=NigDS)

plot(FRQ~Fsiz,data=NigDS)

summary(NigDS)

NigDS$X=as.factor(NigDS$X)

FRQ.lm <- lm(FRQ ~ LEV + Fsiz+ Bind + Fage + X, data = NigDS)

FRQ.lm

summary(FRQ.lm)

install.packages("tidyverse")

library(tidyverse)

NigDS = NigDS %>%

mutate(X = relevel(X, ref = "Pre"))

FRQ.lm <- lm(FRQ ~ LEV + Fsiz+ Bind + Fage + X, data = NigDS)

FRQ.lm

summary(FRQ.lm)

par(mfrow =c(1,1))

plot(FRQ.lm)

par(mfrow=c(0.5,0.5))

return()

NigDS$predicted.y <- predict.lm(FRQ.lm, data = NigDS)

FRQ.plot <- ggplot(NigDS, aes(x=LEV, y=FRQ, col = X)) +

geom\_point() +

geom\_line(data = NigDS, aes (x = LEV, y = predicted.y, color = X), size =1.25) +

theme\_bw() +

labs(title = "Finance Reporting Quality \n as a function of Leverage \n and IFRS status",

x = "Leverage (%)",

y = "Finance Reporting Quality",

color = "IFRS Status")

FRQ.plot

FRQ.plot1 <- ggplot(NigDS, aes(x=Fsiz, y=FRQ, col = X)) +

geom\_point() +

geom\_line(data = NigDS, aes (x = Fsiz, y = predicted.y, color = X), size =1.25) +

theme\_bw() +

labs(title = "Finance Reporting Quality \n as a function of Firm Size \n and IFRS status",

x = "Firm Size",

y = "Finance Reporting Quality",

color = "IFRS Status")

FRQ.plot1

FRQ.plot2 <- ggplot(NigDS, aes(x=Bsiz, y=FRQ, col = X)) +

geom\_point() +

geom\_line(data = NigDS, aes (x = Bsiz, y = predicted.y, color = X), size =1.25) +

theme\_bw() +

labs(title = "Finance Reporting Quality \n as a function of Board Size \n and IFRS status",

x = "Board Size",

y = "Finance Reporting Quality",

color = "IFRS Status")

FRQ.plot2

FRQ.plot3 <- ggplot(NigDS, aes(x=Bind, y=FRQ, col = X)) +

geom\_point() +

geom\_line(data = NigDS, aes (x = Bind, y = predicted.y, color = X), size =1.25) +

theme\_bw() +

labs(title = "Finance Reporting Quality \n as a function of Board \n independence and IFRS status",

x = "Board Independence (%)",

y = "Finance Reporting Quality",

color = "IFRS Status")

FRQ.plot3

FRQ.plot4 <- ggplot(NigDS, aes(x=Fage, y=FRQ, col = X)) +

geom\_point() +

geom\_line(data = NigDS, aes (x = Fage, y = predicted.y, color = X), size =1.25) +

theme\_bw() +

labs(title = "Finance Reporting Quality as a function of Firm Age and IFRS status",

x = "Firm Age",

y = "Finance Reporting Quality",

color = "IFRS Status")

FRQ.plot4

waka <- (FRQ.plot|FRQ.plot1)/(FRQ.plot2|FRQ.plot3)/(FRQ.plot4)

waka

ggsave(filename = "FRQNGA1.png", plot =waka,

width = 20, height = 25,dpi = 2500, units = "cm")