PANAL REGRESSION ANALYSIS

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Use Data Set Stata File \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

use "D:\Year-2023\Bisma\STATA.dta"

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Or select file Location \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

import excel "D:\Year-2023\Ayzaz\data - Copy.xlsx", sheet("Sheet1") firstrow

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Change Working Directory \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

cd "D:\Year-2023\Ayzaz"

\*\*\*\*\*\*\*\*\*\*\* Set data as panel \*\*\*\*\*\*\*\*\*\*\*\*\*

xtset panel years

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Hypothesis 1 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\* Create Interaction Term \*\*\*\*\*\*

gen moderator = shariah\_compliance\*csr\_index

\*\*\*\*\*\*\*\*\*\*\*\*\*\* Descriptive Statistics \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

asdoc sum csr\_index environmental\_csr community\_csr customer\_csr employees\_csr shariah\_compliance dividend\_payout\_1 leverage profitability size debt\_ratio roe ocf risk cash\_holding life\_cycle\_proxy tangibility log\_csr\_performance

\*\*\*\*\*\*\*\*\*\* Correlation Test \*\*\*\*\*\*\*\*\*\*\*\*

asdoc pwcorr csr\_index shariah\_compliance dividend\_payout\_1 leverage profitability size debt\_ratio roe ocf risk cash\_holding life\_cycle\_proxy tangibility log\_csr\_performance, star (0.05)

\*\*\*\*\*\*\*\*\*\* Unit Root Test \*\*\*\*\*\*\*\*\*\*\*\*\*

asdoc xtunitroot llc csr\_index, lags(0) trend

asdoc xtunitroot llc dividend\_payout\_1, lags(0) trend

asdoc xtunitroot llc leverage, lags(0) trend

asdoc xtunitroot llc profitability, lags(0) trend

asdoc xtunitroot llc size, lags(0) trend

asdoc xtunitroot llc debt\_ratio, lags(0) trend

asdoc xtunitroot llc roe, lags(0) trend

asdoc xtunitroot llc ocf, lags(0) trend

asdoc xtunitroot llc risk, lags(0) trend

asdoc xtunitroot llc cash\_holding, lags(0) trend

asdoc xtunitroot llc life\_cycle\_proxy, lags(0) trend

asdoc xtunitroot llc tangibility, lags(0) trend

asdoc xtunitroot llc log\_csr\_performance, lags(0) trend

\*\*\*\*\*\*\*\*\* Testing for heteroskedasticity \*\*\*\*\*\*\*\*\*

ssc install xttest3

asdoc xtreg dividend\_payout\_1 csr\_index leverage profitability size debt\_ratio roe ocf risk cash\_holding life\_cycle\_proxy tangibility, fe robust

xttest3

\*\*\*\*\*\*\*\*\*\* Regression Analysis Fixed and Random Effect \*\*\*\*\*\*\*\*\*\*\*\*\*

xtreg dividend\_payout\_1 csr\_index leverage profitability size debt\_ratio roe ocf risk cash\_holding life\_cycle\_proxy tangibility, fe

estimates store fixed

xtreg dividend\_payout\_1 csr\_index leverage profitability size debt\_ratio roe ocf risk cash\_holding life\_cycle\_proxy tangibility, re

estimates store random

\*\*\*\*\*\*\*\*\*\*\*\*\* Post-Estimation to see whether fixed or random effect is appropriate \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

asdoc hausman fixed random, sigmamore

\*\*\*\*\*\*\*\*\*\*\* Post-Estimation \*\*\*\*\*\*\*\*\*\*

asdoc xtreg dividend\_payout\_1 csr\_index leverage profitability size debt\_ratio roe ocf risk cash\_holding life\_cycle\_proxy tangibility, re robust nest

xttest0

asdoc reg dividend\_payout\_1 csr\_index leverage profitability size debt\_ratio roe ocf risk cash\_holding life\_cycle\_proxy tangibility, robust nest

\*\*\*\*\*\*\*\*\*\* VIF Test \*\*\*\*\*\*\*\*\*\*\*\*\*\*

vif

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Hypothesis 2 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

asdoc reg dividend\_payout\_1 environmental\_csr shariah\_compliance leverage profitability size debt\_ratio roe ocf risk cash\_holding life\_cycle\_proxy tangibility, robust nest

asdoc reg dividend\_payout\_1 community\_csr shariah\_compliance leverage profitability size debt\_ratio roe ocf risk cash\_holding life\_cycle\_proxy tangibility, robust nest

asdoc reg dividend\_payout\_1 customer\_csr shariah\_compliance leverage profitability size debt\_ratio roe ocf risk cash\_holding life\_cycle\_proxy tangibility, robust nest

asdoc reg dividend\_payout\_1 employees\_csr shariah\_compliance leverage profitability size debt\_ratio roe ocf risk cash\_holding life\_cycle\_proxy tangibility, robust nest

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Hypothesis 3 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

asdoc reg dividend\_payout\_1 shariah\_compliance

asdoc reg dividend\_payout\_1 csr\_index shariah\_compliance

asdoc reg dividend\_payout\_1 csr\_index shariah\_compliance leverage profitability size debt\_ratio roe ocf risk cash\_holding life\_cycle\_proxy tangibility

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Hypothesis 4 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

asdoc xtreg dividend\_payout\_1 csr\_index moderator leverage profitability size debt\_ratio roe ocf risk cash\_holding life\_cycle\_proxy tangibility, fe robust replace nest

xttest3

\*\*\*\*\*\*\*\*\*\* Regression Analysis Fixed and Random Effect \*\*\*\*\*\*\*\*\*\*\*\*\*

xtreg dividend\_payout\_1 csr\_index moderator leverage profitability size debt\_ratio roe ocf risk cash\_holding life\_cycle\_proxy tangibility, fe

estimates store fixed

xtreg dividend\_payout\_1 csr\_index moderator leverage profitability size debt\_ratio roe ocf risk cash\_holding life\_cycle\_proxy tangibility, re

estimates store random

\*\*\*\*\*\* Post-Estimation to see whether fixed or random effect is appropriate \*\*\*\*\*\*\*\*

asdoc hausman fixed random, sigmamore

\*\*\*\*\*\*\*\*\*\*\* Post-Estimation \*\*\*\*\*\*\*\*\*\*\*\*\*

asdoc xtreg dividend\_payout\_1 csr\_index moderator leverage profitability size debt\_ratio roe ocf risk cash\_holding life\_cycle\_proxy tangibility, re robust nest

xttest0

asdoc reg dividend\_payout\_1 csr\_index moderator leverage profitability size debt\_ratio roe ocf risk cash\_holding life\_cycle\_proxy tangibility, robust nest