library(readxl)

> happiness2021cleaned <- read\_excel("Custom Office Templates/happiness2021cleaned.xltx")

> View(happiness2021cleaned)

> summary(happiness2021cleaned)

countryname regionalindicator ladderscore gdp social life

Length:149 Length:149 Min. :2.523 Min. : 6.635 Min. :0.4630 Min. :48.48

Class :character Class :character 1st Qu.:4.852 1st Qu.: 8.541 1st Qu.:0.7500 1st Qu.:59.80

Mode :character Mode :character Median :5.534 Median : 9.569 Median :0.8320 Median :66.60

Mean :5.533 Mean : 9.432 Mean :0.8147 Mean :64.99

3rd Qu.:6.255 3rd Qu.:10.421 3rd Qu.:0.9050 3rd Qu.:69.60

Max. :7.842 Max. :11.647 Max. :0.9830 Max. :76.95

freedom generosity percorruption dystopia

Min. :0.3820 Min. :-0.28800 Min. :0.0820 Min. :2.43

1st Qu.:0.7180 1st Qu.:-0.12600 1st Qu.:0.6670 1st Qu.:2.43

Median :0.8040 Median :-0.03600 Median :0.7810 Median :2.43

Mean :0.7916 Mean :-0.01513 Mean :0.7274 Mean :2.43

3rd Qu.:0.8770 3rd Qu.: 0.07900 3rd Qu.:0.8450 3rd Qu.:2.43

Max. :0.9700 Max. : 0.54200 Max. :0.9390 Max. :2.43

> cor(happiness2021cleaned[c("ladderscore","gdp")]use = "complete")

Error: unexpected symbol in "cor(happiness2021cleaned[c("ladderscore","gdp")]use"

> cor(happiness2021cleaned[c("ladderscore","gdp")], use = "complete")

ladderscore gdp

ladderscore 1.0000000 0.7897597

gdp 0.7897597 1.0000000

> cor(happiness2021cleaned[c("ladderscore","social")], use = "complete")

ladderscore social

ladderscore 1.0000000 0.7568876

social 0.7568876 1.0000000

> cor(happiness2021cleaned[c("ladderscore","freedom")], use = "complete")

ladderscore freedom

ladderscore 1.0000000 0.6077531

freedom 0.6077531 1.0000000

> cor(happiness2021cleaned[c("ladderscore","dystopia")], use = "complete")

ladderscore dystopia

ladderscore 1 NA

dystopia NA 1

Warning message:

In cor(happiness2021cleaned[c("ladderscore", "dystopia")], use = "complete") :

the standard deviation is zero

> cor(happiness2021cleaned[c("ladderscore","dystopia")], use = "complete")

ladderscore dystopia

ladderscore 1 NA

dystopia NA 1

Warning message:

In cor(happiness2021cleaned[c("ladderscore", "dystopia")], use = "complete") :

the standard deviation is zero

> cor(happiness2021cleaned[c("ladderscore","life")], use = "complete")

ladderscore life

ladderscore 1.0000000 0.7680995

life 0.7680995 1.0000000

> cor(happiness2021cleaned[c("ladderscore","percorruption")], use = "complete")

ladderscore percorruption

ladderscore 1.00000 -0.42114

percorruption -0.42114 1.00000

> cor(happiness2021cleaned[c("ladderscore","generosity")], use = "complete")

ladderscore generosity

ladderscore 1.00000000 -0.01779928

generosity -0.01779928 1.00000000

> aov(formula = ladderscore~gdp, data = happiness2021cleaned)

Call:

aov(formula = ladderscore ~ gdp, data = happiness2021cleaned)

Terms:

gdp Residuals

Sum of Squares 106.46293 64.22723

Deg. of Freedom 1 147

Residual standard error: 0.6609992

Estimated effects may be unbalanced

> aov(formula = gdp~ladderscore, data = happiness2021cleaned)

Call:

aov(formula = gdp ~ ladderscore, data = happiness2021cleaned)

Terms:

ladderscore Residuals

Sum of Squares 123.91383 74.75505

Deg. of Freedom 1 147

Residual standard error: 0.7131183

> plot(happiness2021cleaned[c("ladderscore","gdp")])

> cor.test(happiness2021cleaned[c("ladderscore"~"gdp")])

> plot(happiness2021cleaned[c("ladderscore","social")])

> plot(happiness2021cleaned[c("ladderscore","life")])

> plot(happiness2021cleaned[c("ladderscore","generosity")])

> plot(happiness2021cleaned[c("ladderscore","freedom")])