Week5 in-class assignment

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```
here() starts at C:/Users/anna_/OneDrive/Desktop/CHL8010/armed_conflict_vc

-- Attaching core tidyverse packages ------------------------ tidyverse 2.0.0 --
v dplyr     1.1.4     v readr     2.1.5
v forcats   1.0.0     v stringr   1.5.1
v ggplot2   3.5.1     v tibble    3.2.1
v lubridate 1.9.3     v tidyr     1.3.1
v purrr     1.0.2
-- Conflicts ------------------------------------------ tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()    masks stats::lag()
i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to becor

Attaching package: 'table1'


The following objects are masked from 'package:base':

    units, units<-
```

part 1

table 1

```
data_table <- finaldata |>
  group_by(country_name) |>
  mutate(
    ever_conflict = ifelse(sum(armconflict, na.rm = TRUE) > 0, "Ever", "Never")) |>
  ungroup()
```

```r
data_country <- data_table |>
  group_by(country_name) |>
  summarise(
    gdp1000 = mean(gdp1000, na.rm = TRUE),
    #OECD = sum(OECD == 1, na.rm = TRUE),
    popdens = mean(popdens, na.rm = TRUE),
    urban = mean(urban, na.rm = TRUE),
    agedep = mean(agedep, na.rm = TRUE),
    male_edu = mean(male_edu, na.rm = TRUE),
    temp = mean(temp, na.rm = TRUE),
    rainfall1000 = mean(rainfall1000, na.rm = TRUE),
    #drought = sum(drought == 1, na.rm = TRUE),
    #earthquake = sum(earthquake == 1, na.rm = TRUE),
    ever_conflict = ifelse(sum(armconflict, na.rm = TRUE) > 0, "Ever", "Never"),
    ever_OECD = ifelse(sum(OECD, na.rm = TRUE) > 0, "Ever", "Never"),
    ever_drought = ifelse(sum(drought, na.rm = TRUE) > 0, "Ever", "Never"),
    ever_earthquake = ifelse(sum(earthquake, na.rm = TRUE) > 0, "Ever", "Never")
)
```

```r
table1(~ gdp1000 + popdens + urban + agedep + male_edu + temp +
         rainfall1000 + ever_OECD + ever_drought + ever_earthquake | ever_conflict,
       data=data_country)
```

	Ever	Never	Overall
	(N=88)	(N=98)	(N=186)
gdp1000			
Mean (SD)	5.37 (9.71)	16.8 (19.4)	11.4 (16.5)
Median [Min, Max]	1.95 [0.197, 49.4]	7.95 [0.365, 97.0]	4.18 [0.197, 97.0]
Missing	0 (0%)	1 (1.0%)	1 (0.5%)
popdens			
Mean (SD)	29.9 (19.7)	31.2 (21.3)	30.6 (20.5)
Median [Min, Max]	25.6 [0, 90.0]	30.1 [0, 99.8]	26.5 [0, 99.8]
Missing	1 (1.1%)	0 (0%)	1 (0.5%)
urban			
Mean (SD)	31.4 (15.2)	30.1 (19.6)	30.7 (17.6)
Median [Min, Max]	31.5 [3.33, 76.1]	30.4 [0.105, 92.6]	30.7 [0.105, 92.6]
Missing	1 (1.1%)	0 (0%)	1 (0.5%)
agedep			
Mean (SD)	69.0 (19.3)	55.6 (14.8)	61.9 (18.3)
Median [Min, Max]	67.6 [33.8, 105]	51.1 [20.8, 98.1]	55.6 [20.8, 105]
male_edu			
Mean (SD)	7.03 (2.83)	9.35 (2.66)	8.26 (2.97)
Median [Min, Max]	7.14 [1.52, 12.7]	9.50 [2.76, 14.2]	8.39 [1.52, 14.2]
Missing	1 (1.1%)	0 (0%)	1 (0.5%)
temp			
Mean (SD)	21.5 (5.99)	18.0 (8.04)	19.6 (7.34)
Median [Min, Max]	23.1 [5.22, 29.1]	19.7 [-0.627, 28.9]	22.1 [-0.627, 29.1]
Missing	1 (1.1%)	0 (0%)	1 (0.5%)
rainfall1000			
Mean (SD)	1.08 (0.752)	1.31 (0.816)	1.20 (0.793)
Median [Min, Max]	0.963 [0.0430, 2.92]	1.06 [0.0666, 3.49]	1.01 [0.0430, 3.49]
Missing	1 (1.1%)	0 (0%)	1 (0.5%)
ever_OECD			
Ever	7 (8.0%)	28 (28.6%)	35 (18.8%)
Never	81 (92.0%)	70 (71.4%)	151 (81.2%)
ever_drought			
Ever	58 (65.9%)	48 (49.0%)	106 (57.0%)
Never	30 (34.1%)	50 (51.0%)	80 (43.0%)
ever_earthquake			
Ever	47 (53.4%)	34 (34.7%)	81 (43.5%)
Never	41 (46.6%)	64 (65.3%)	105 (56.5%)

Part 2

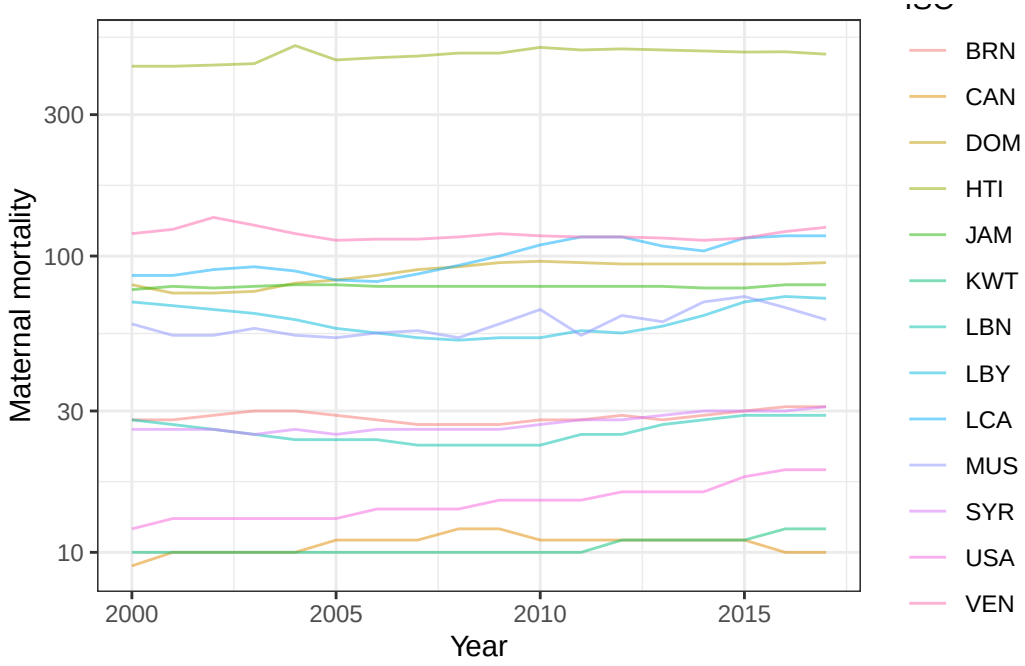
descriptive figure

```
select_country <- finaldata |>
  dplyr::select(country_name, ISO, year, MatMor) |>
  dplyr::filter(year < 2018) |>
  arrange(ISO, year) |>
  group_by(ISO) |>
  mutate(diffmatmor = MatMor - MatMor[1L]) |>
  filter(year==2017 & diffmatmor > 0) |>
  select(country_name, ISO)
```

```
data_inc_matmor <- finaldata |>
  inner_join(select_country, by = "ISO")
```

```
data_inc_matmor |>
  ggplot(aes(x = year, y = MatMor, group = ISO)) +
  geom_line(aes(color = as.factor(ISO)), alpha = 0.5) +
  xlim(c(2000,2017)) +
  scale_y_continuous(trans='log10') +
  labs(y = "Maternal mortality", x = "Year", color = "ISO") +
  theme_bw()
```

```
Warning: Removed 26 rows containing missing values or values outside the scale range
(`geom_line()`).
```


Maternal mortality
300
100
30
10
2000
2005
2010
2015
Year
BRN
CAN
DOM
HTI
JAM
KWT
LBN
LBY
LCA
MUS
SYR
USA
VEN