Analysis on Gender Statictics

Team 6- The Outsiders

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Contents

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#1 Janice

```r
# Libraries
library(tidyverse)
```

```
## -- Attaching packages --------------------------------------- tidyverse 1.3.1 --
```

```
## v ggplot2 3.3.3     v purrr   0.3.4
## v tibble  3.1.1     v dplyr   1.0.6
## v tidyr   1.1.3     v stringr 1.4.0
## v readr   1.4.0     v forcats 0.5.1
```

```
## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```
library(ggplot2)
library(readr)
library(broom)
library(stringr)
library(patchwork)
library(kableExtra)
```

```
##
## Attaching package: 'kableExtra'

## The following object is masked from 'package:dplyr':
##
##     group_rows
```

```
library(knitr)
library(bookdown)
library(naniar)
library(GGally)
```

```
## Registered S3 method overwritten by 'GGally':
##   method from
##   +.gg   ggplot2
```

```
Genderstatistics <- read_csv("Data/Genderstatistics.csv")%>%
  rename('2011' = '2011 [YR2011]',
         '2012' = '2012 [YR2012]',
         '2013' = '2013 [YR2013]',
         '2014' = '2014 [YR2014]',
         '2015' = '2015 [YR2015]',
         '2016' = '2016 [YR2016]',
         '2017' = '2017 [YR2017]',
         '2018' = '2018 [YR2018]',
         '2019' = '2019 [YR2019]') %>%
  mutate(`2019` = as.numeric(`2019`))
```

```
##
## -- Column specification ------------------------------------------------------
## cols(
##   `Series Name` = col_character(),
##   `Series Code` = col_character(),
##   `Country Name` = col_character(),
##   `Country Code` = col_character(),
##   `2011 [YR2011]` = col_double(),
##   `2012 [YR2012]` = col_double(),
##   `2013 [YR2013]` = col_double(),
##   `2014 [YR2014]` = col_double(),
##   `2015 [YR2015]` = col_double(),
##   `2016 [YR2016]` = col_double(),
##   `2017 [YR2017]` = col_double(),
##   `2018 [YR2018]` = col_double(),
##   `2019 [YR2019]` = col_character()
## )
```

```
## Warning in mask$eval_all_mutate(quo): NAs introduced by coercion
```

```r
analysis<- Genderstatistics %>%
  filter(`Series Name` %in% c("Inflation, consumer prices (annual %)", "Population ages 15-64, female",
  select(-c(`Series Code`,`Country Code`)) %>%
   pivot_longer(cols = -c(`Country Name`,`Series Name`),
               names_to = "Year",
               values_to = "count") %>%
  pivot_wider(names_from = "Series Name",
              values_from = "count")
```

```r
analysis <- analysis %>%
mutate(Inflation = as.numeric(`Inflation, consumer prices (annual %)`)) %>%
  mutate(Population_ages_15_64_female = as.numeric(`Population ages 15-64, female`)) %>%
  mutate(Population_ages_15_64_male = as.numeric(`Population ages 15-64, male`)) %>%
  mutate(labour_force = `Population_ages_15_64_female`+`Population_ages_15_64_male`) %>%
  mutate(Year = as.numeric(Year)) %>%
  mutate(Life_expectancy_at_birth_female = as.numeric(`Life expectancy at birth, female (years)`))%>%
  mutate(Life_expectancy_at_birth_male = as.numeric(`Life expectancy at birth, male (years)`))%>%
  select(-c(`Inflation, consumer prices (annual %)`,`Population ages 15-64, female`,`Population ages 15-
```

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#2 Nelson

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#3 Ratul