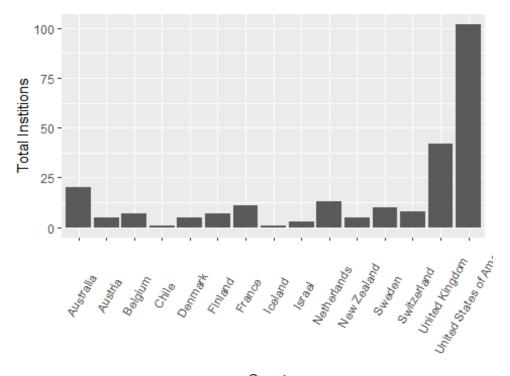
exercise_6_code+output.R

Emmanuel

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```
library(tidyverse)
## -- Attaching packages ----- tidyverse
1.2.1 --
## v ggplot2 3.1.0 v purrr 0.3.0
## v tibble 2.0.1 v dplyr 0.7.8
## v tidyr 0.8.2 v stringr 1.3.1
## v readr 1.3.1 v forcats 0.3.0
## -- Conflicts -----
tidyverse conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
library(tibble)
library(ggplot2)
educationcsv <- read.csv(file =
"education expenditure supplementary data.csv")
timesdf <- read.csv(file = "timesData.csv")</pre>
sub <- function(data, vars){</pre>
  i = length(vars)
  x = 1
  df = NA
  while(i >= x){
    df = rbind(df, filter(data, country==vars[x]))
    x = x + 1
  }
  na.omit(df)
}
educ <- select(educationcsv, country, direct expenditure type, X2011)</pre>
educ[order(educ$X2011, decreasing = TRUE),] %>% na.omit() -> educ
filter(educ, direct expenditure type=="Total") -> educ
countries <- educ[1:20,]$country</pre>
times_data <- filter(timesdf, year==2015)</pre>
clist <- str_replace_all(countries, "United States", "United States of</pre>
America")
sub(times_data, clist) -> times_data
ggplot(data = na.omit(times data), mapping = aes(country)) +
```

```
geom_bar() +
xlab(label = "Country") +
ylab(label = "Total Institions") +
theme(axis.text.x = element_text(angle=60, vjust=0.6))
```



Country