exercise_3_code+output.R

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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)
library(dplyr)
```

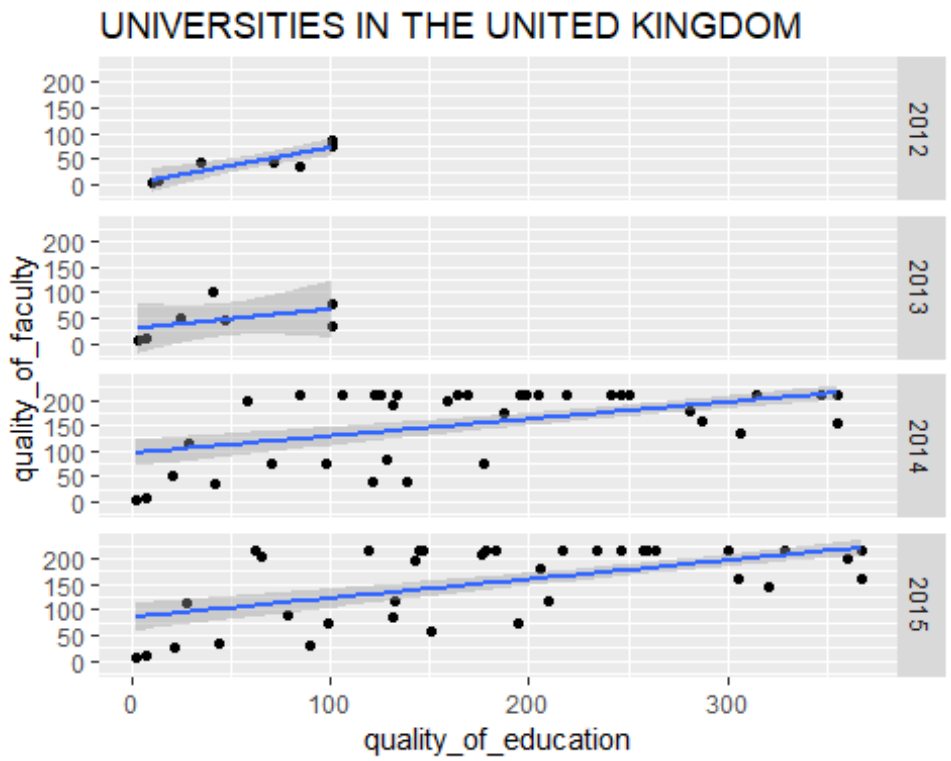
```
cwur <- read.csv("cwurData.csv")
cwurdf <- data.frame(cwur)
```

```
names(cwurdf)
```

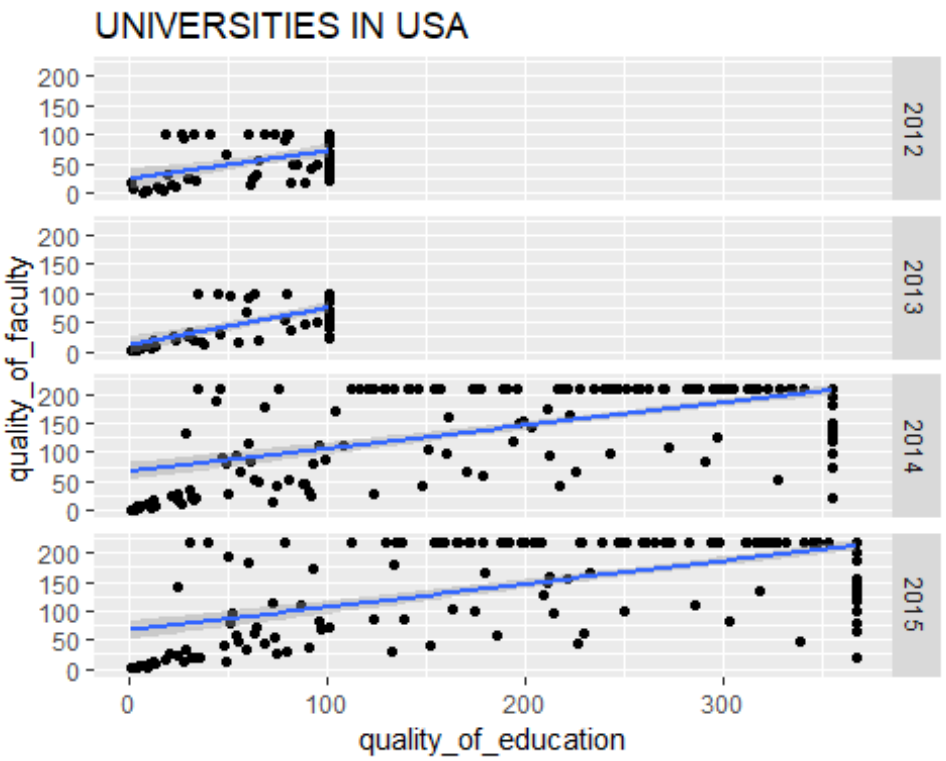
```
##  [1] "world_rank"           "institution"          "country"
##  [4] "national_rank"        "quality_of_education" "alumni_employment"
##  [7] "quality_of_faculty"   "publications"         "influence"
## [10] "citations"            "broad_impact"         "patents"
## [13] "score"                "year"
```

```
#To display the quality of education and quality of faculty using the cwur
dataset
#Using universities in the United Kingdom, USA, France,Switzerland and
Canada.
#between the year 2012-2015
```

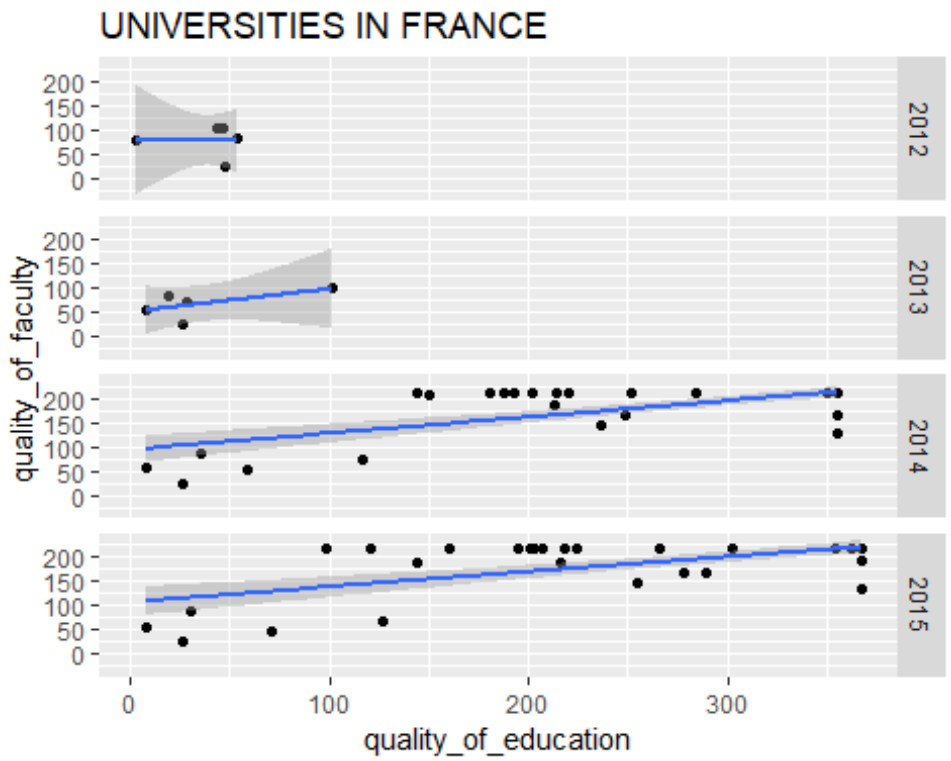
```
unitedkingdom <- cwurdf %>% filter(country == "United Kingdom")
ggplot(unitedkingdom, aes(x=quality_of_education, y=quality_of_faculty)) +
  geom_point() + geom_smooth(method="lm") + facet_grid(year~.) + labs(title =
"UNIVERSITIES IN THE UNITED KINGDOM")
```



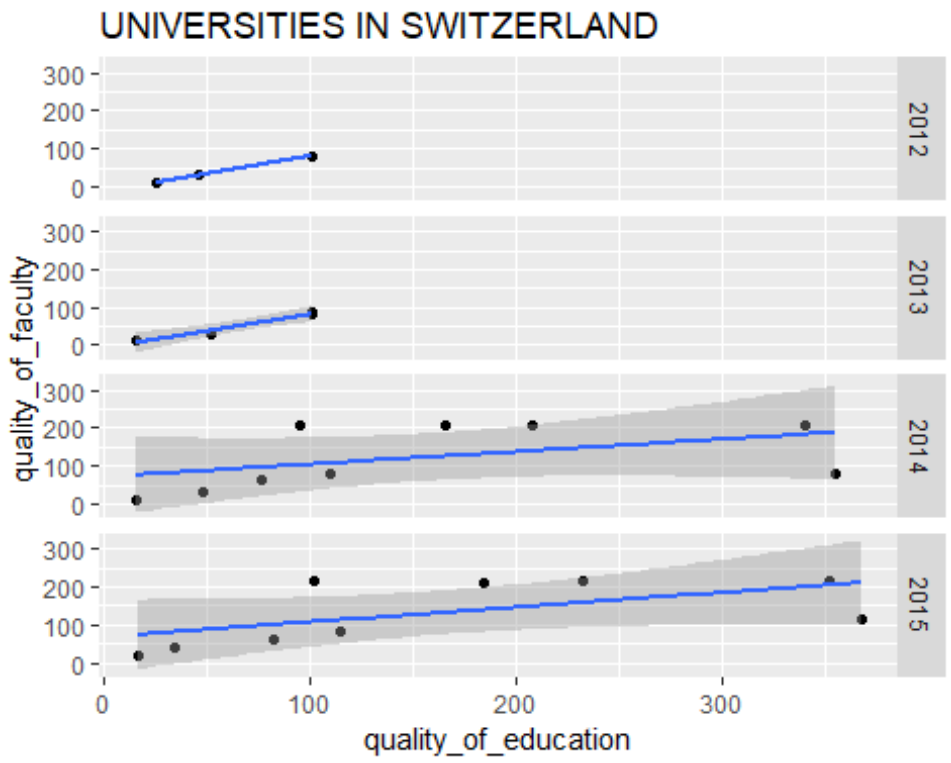

```
usa <- cwurdf %>% filter(country == "USA")
ggplot(usa, aes(x=quality_of_education, y=quality_of_faculty)) +
  geom_point() + geom_smooth(method="lm") + facet_grid(year~.) + labs(title =
"UNIVERSITIES IN USA")
```



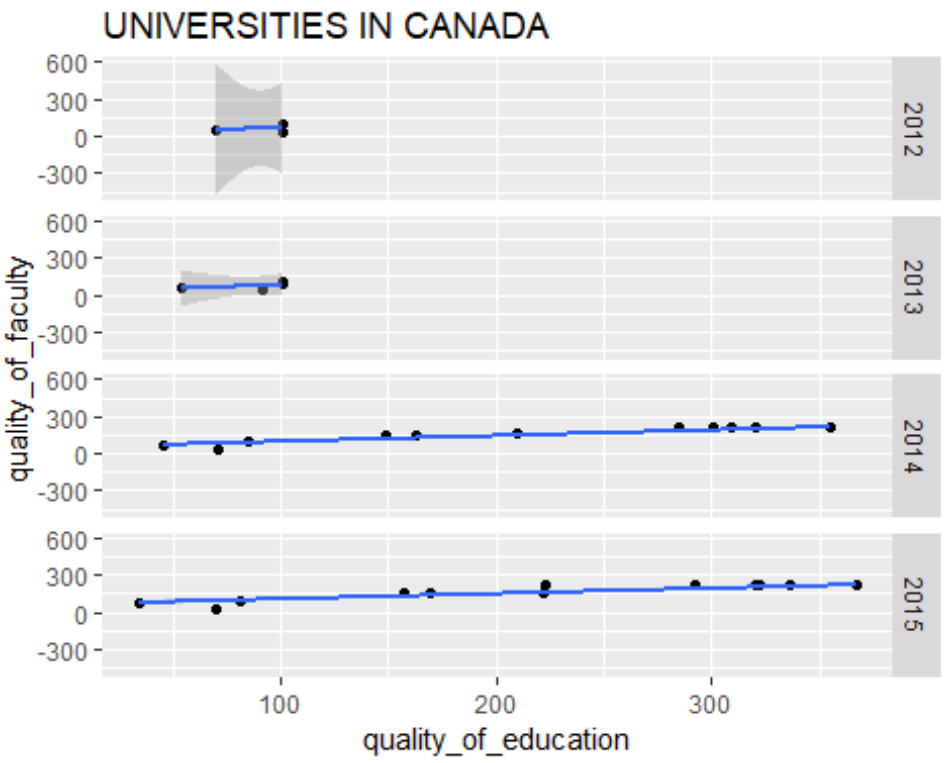

```
france <- cwurdf %>% filter(country == "France")
ggplot(france, aes(x=quality_of_education, y=quality_of_faculty)) +
  geom_point() + geom_smooth(method="lm") + facet_grid(year~.) + labs(title =
"UNIVERSITIES IN FRANCE")
```




```
switzerland <- cwurdf %>% filter(country == "Switzerland")
ggplot(switzerland, aes(x=quality_of_education, y=quality_of_faculty)) +
  geom_point() + geom_smooth(method="lm") + facet_grid(year~.) + labs(title =
"UNIVERSITIES IN SWITZERLAND")
```




```
switzerland <- cwurdf %>% filter(country == "Canada")
ggplot(switzerland, aes(x=quality_of_education, y=quality_of_faculty)) +
  geom_point() + geom_smooth(method="lm") + facet_grid(year~.) + labs(title =
"UNIVERSITIES IN CANADA")
```


UNIVERSITIES IN CANADA
quality_of_faculty
quality_of_education
600
300
0
-300
100
200
300
2012
2013
2014
2015