Exam2

Kavya Sethi

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Contents

1. Clearing environment in r.

This code clears the global environment where loaded data appears.

```
rm(list=ls(all=TRUE))
```

2. Loading the college_scorecard and name it "college_scorecard"

To load data in R, I must first call on package rio and then upload data.

```
library(rio)

college_scorecard = import("2021_exam2_data.xlsx", which = 4)
```

Note that I designated which tab of the exam sheet through, "which = 4" in the previous code chunk

3. Summary statistics for the college_scorecard dataset.

Simply use summary() which is a part of r base.

```
summary(college_scorecard)
```

```
##      unitid        inst_name          state_abbr
##  Min.   :100654   Length:48445       Length:48445
##  1st Qu.:163532   Class :character   Class :character
##  Median :212115   Mode  :character   Mode  :character
##  Mean   :260438
##  3rd Qu.:409120
##  Max.   :490009
##
##  pred_degree_awarded_ipeds      year       earnings_med    count_not_working
##  Min.   :1.000             Min.   :2007   Min.   :  8400   Min.   :    0.0
##  1st Qu.:1.000             1st Qu.:2011   1st Qu.: 24700   1st Qu.:   46.0
##  Median :2.000             Median :2012   Median : 31600   Median :  115.0
##  Mean   :1.913             Mean   :2012   Mean   : 33348   Mean   :  369.4
##  3rd Qu.:3.000             3rd Qu.:2014   3rd Qu.: 39800   3rd Qu.:  300.0
##  Max.   :3.000             Max.   :2016   Max.   :186500   Max.   :15960.0
##                                           NA's   :15706    NA's   :15801
##  count_working
##  Min.   :    8
##  1st Qu.:  210
##  Median :  594
##  Mean   : 2073
##  3rd Qu.: 1477
##  Max.   :94724
##  NA's   :14772
```

NICE!

4. Creating small_scorecard

small_scorecard includes data measured in 2014 and 2015 on former students who graduated from four-year+ colleges and universities located in Texas (state_abbr: "TX") and Louisiana (state_abbr: "LA").

```
library(dplyr)
```

```
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##     filter, lag

## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```
#Check class of year so that I know is 2014/2014 should be put in "".
class(college_scorecard$year)
```

```
## [1] "numeric"
```

```
# Create a vector to filter both TX and LA/2014 and 2015 through the code below
state_names <- c("TX", "LA")
small_years <- c(2015,2014)

small_scorecard <- filter(college_scorecard, year== small_years)
```

```
## Warning in year == small_years: longer object length is not a multiple of
## shorter object length
```

```
small_scorecard <- filter(small_scorecard,pred_degree_awarded_ipeds==3)
small_scorecard <- filter(small_scorecard,state_abbr == state_names)
```

```
## Warning in state_abbr == state_names: longer object length is not a multiple of
## shorter object length
```

Seems to be some values missing, but after filtering with excel data there are values missing with specified variables. Note call dplyr because it includes filter().

5.Collapse small_card into even_smaller_scorecard"

Get average of number people working who graduated from universities in Texas and Lousiana and total number of people working who graduated from universities in Texas and Lousiana.

Name it "even_smaller_scorecard"

```
small_scorecard$total = small_scorecard$count_not_working + small_scorecard$count_working


even_smaller_scorecard <-
  small_scorecard%>%
  group_by(state_abbr) %>% # tell R the unique IDs
  summarize(across(where(is.numeric), sum, na.rm = TRUE))%>% # summarize numeric vars by
  select(-c("unitid","pred_degree_awarded_ipeds","year","earnings_med","count_not_working"))

print(even_smaller_scorecard)
```

```
## # A tibble: 2 x 3
##   state_abbr count_working  total
##   <chr>              <dbl>  <dbl>
## 1 LA                  8223   9386
## 2 TX                157765 182538
```

6. even_smaller_scorecard bar graph

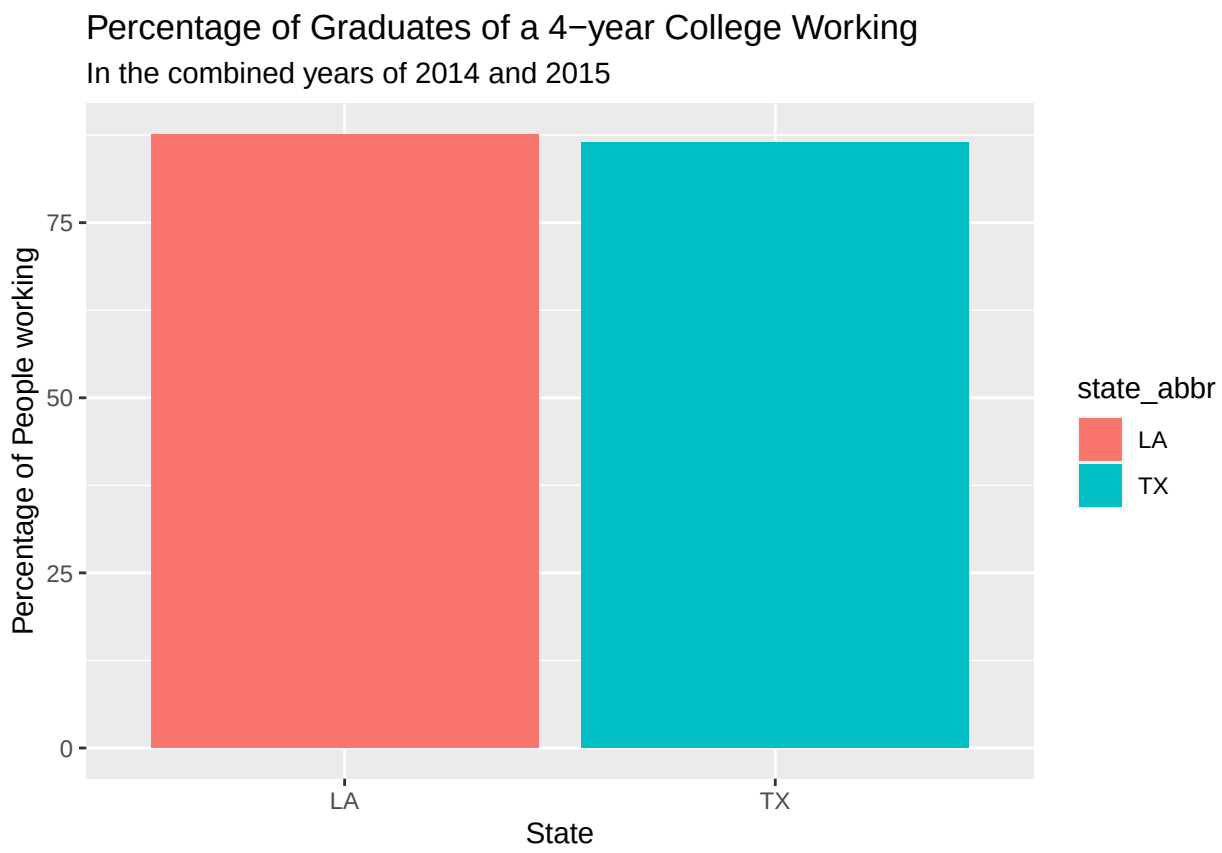
use ggplot2

```
even_smaller_scorecard$percentage <-(even_smaller_scorecard$count_working/even_smaller_scorecard$total*

library(ggplot2)

even_smaller_scorecardgraph <- ggplot(even_smaller_scorecard, aes(x=state_abbr,y=percentage, fill = sta
  geom_col() + labs( x = "State", y = "Percentage of People working",
title ="Percentage of Graduates of a 4-year College Working", subtitle = "In the combined years of 2014

print(even_smaller_scorecardgraph)
```



7. On the basis of the Graph

Broadly speaking, the bar graphs between TX and LA appear to be relatively similar. The percentage difference between the states is too small to be significant.

```
summary(even_smaller_scorecard)
```

```
##   state_abbr        count_working        total          percentage
##  Length:2           Min.   :  8223   Min.   :  9386   Min.   :86.43
##  Class :character   1st Qu.: 45608   1st Qu.: 52674   1st Qu.:86.72
##  Mode  :character   Median : 82994   Median : 95962   Median :87.02
##                     Mean   : 82994   Mean   : 95962   Mean   :87.02
##                     3rd Qu.:120380   3rd Qu.:139250   3rd Qu.:87.31
##                     Max.   :157765   Max.   :182538   Max.   :87.61
```

```
summary(small_scorecard)
```

```
##      unitid        inst_name          state_abbr
##  Min.   :158802   Length:64          Length:64
##  1st Qu.:223084   Class :character   Class :character
##  Median :227287   Mode  :character   Mode  :character
##  Mean   :247536
##  3rd Qu.:228920
##  Max.   :484756
##
##  pred_degree_awarded_ipeds      year       earnings_med   count_not_working
##  Min.   :3                 Min.   :2014   Min.   :23400   Min.   :   27.0
##  1st Qu.:3                 1st Qu.:2014   1st Qu.:35400   1st Qu.:   72.0
##  Median :3                 Median :2014   Median :40200   Median :  163.0
##  Mean   :3                 Mean   :2014   Mean   :40310   Mean   :  894.3
##  3rd Qu.:3                 3rd Qu.:2015   3rd Qu.:47100   3rd Qu.:  315.0
##  Max.   :3                 Max.   :2015   Max.   :54900   Max.   :15960.0
##                                           NA's   :35      NA's   :35
##  count_working       total
##  Min.   :  147   Min.   :   174
##  1st Qu.:  491   1st Qu.:   547
##  Median : 1106   Median :  1297
##  Mean   : 5724   Mean   :  6618
##  3rd Qu.: 2267   3rd Qu.:  2562
##  Max.   :94724   Max.   :110684
##  NA's   :35      NA's   :35
```

Based on the data summaries and graph, I do not think there is a significant difference between the state of Texas and Lousiana. I was unable to calculate other states in the college_scoreboard so I would not be comfortable guessing if there is advantage in gaining employment between all 50 states or universities. But considering that the data is so board, it is likely that some particular states or particular universities have a higher percentage of graduates employed.

8. Load avocado dataset

```
library(rio)

avocados <- import("2021_exam2_data.xlsx", which = 2)
```

9. Capture Year Avocados were sold

Use lubridate package to extrapolate the year into a new column

```
library(lubridate)
```

```
##
## Attaching package: 'lubridate'
```

```
## The following objects are masked from 'package:base':
##
##     date, intersect, setdiff, union
```

```
library(nycflights13)
library(dplyr)
avocado_dates <- avocados

avocados<-
avocado_dates %>%
  dplyr::mutate(lubridate::year(avocado_dates$date))
```

10. Deflated Data

Google WDI GDP deflator

```
library(WDI)
# https://data.worldbank.org/indicator/NY.GDP.DEFL.ZS
deflator_data = WDI(country = "all", indicator = c("NY.GDP.DEFL.ZS"),
  start = 2015, # start of foreign aid data
  end = 2018, # end of of foreign aid data
  extra = FALSE, cache = NULL)

# rename variables so they are understandable using the data.table package
library(data.table)
```

```
##
## Attaching package: 'data.table'
```

```
## The following objects are masked from 'package:lubridate':
##
##     hour, isoweek, mday, minute, month, quarter, second, wday, week,
##     yday, year
```

```
## The following objects are masked from 'package:dplyr':
##
##     between, first, last
```

```
setnames(deflator_data,"NY.GDP.DEFL.ZS", "deflator")

setnames(avocados,"lubridate::year(avocado_dates$date)","year")


# select only the United States data
usd_deflator = subset(deflator_data, country=="United States")

# To determine base year
subset(usd_deflator, deflator==100)
```

```
##      iso2c       country deflator year
## 1016    US United States      100 2015
```

```
deflated_avocados= left_join(avocados, usd_deflator, by=c("year"))

deflated_avocados$deflated_average_price = deflated_avocados$average_price/(deflated_avocados$deflator/
```

11. Collapse Data into collapsed_avocados

```
collapsed_avocados <-  deflated_avocados %>%
  group_by(year) %>% # tell R the unique IDs
  summarize(across(where(is.numeric), sum)) %>% # summarize numeric vars by
  select(-c("average_price","total_volume","deflator"))

head(collapsed_avocados)
```

```
## # A tibble: 4 x 2
##    year deflated_average_price
##   <dbl>                  <dbl>
## 1  2015                   53.1
## 2  2016                   53.8
## 3  2017                   64.5
## 4  2018                   12.3
```

12. Reshape collapsed_avocado wide

```
library(tidyverse)
```

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

## v tibble  3.1.2     v purrr   0.3.4
## v tidyr   1.1.3     v stringr 1.4.0
## v readr   1.4.0     v forcats 0.5.1

## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x lubridate::as.difftime() masks base::as.difftime()
```

```
## x data.table::between()    masks dplyr::between()
## x lubridate::date()        masks base::date()
## x dplyr::filter()          masks stats::filter()
## x data.table::first()      masks dplyr::first()
## x data.table::hour()       masks lubridate::hour()
## x lubridate::intersect()   masks base::intersect()
## x data.table::isoweek()    masks lubridate::isoweek()
## x dplyr::lag()             masks stats::lag()
## x data.table::last()       masks dplyr::last()
## x data.table::mday()       masks lubridate::mday()
## x data.table::minute()     masks lubridate::minute()
## x data.table::month()      masks lubridate::month()
## x data.table::quarter()    masks lubridate::quarter()
## x data.table::second()     masks lubridate::second()
## x lubridate::setdiff()     masks base::setdiff()
## x purrr::transpose()       masks data.table::transpose()
## x lubridate::union()       masks base::union()
## x data.table::wday()       masks lubridate::wday()
## x data.table::week()       masks lubridate::week()
## x data.table::yday()       masks lubridate::yday()
## x data.table::year()       masks lubridate::year()
```

```
wide_avocados <-
 collapsed_avocados %>%
   pivot_wider(id_cols = "year",names_from = year,values_from = deflated_average_price)
head(wide_avocados)
```

```
## # A tibble: 1 x 4
##   `2015` `2016` `2017` `2018`
##    <dbl>  <dbl>  <dbl>  <dbl>
## 1   53.1   53.8   64.5   12.3
```

Label your variables on wide_avocados

```
library(labelled)
  var_label(wide_avocados) <- list('2015' = "Year",'2016' = "Year", '2017' = "Year",'2018' = "Year")
```

14. Load training dataset

```
library(rio)

training = import("2021_exam2_data.xlsx", which = 3)
```

15. Reshaping training data long

```
long_training <-
  training %>%
  pivot_longer(cols = starts_with("re_"),names_to = "Year", names_prefix = "re_")

summary(long_training)
```

```
##  training_program      age             educ          black
##  Min.   :0.0000   Min.   :17.00   Min.   : 3.0   Min.   :0.0000
##  1st Qu.:0.0000   1st Qu.:20.00   1st Qu.: 9.0   1st Qu.:1.0000
##  Median :0.0000   Median :24.00   Median :10.0   Median :1.0000
##  Mean   :0.4157   Mean   :25.37   Mean   :10.2   Mean   :0.8337
##  3rd Qu.:1.0000   3rd Qu.:28.00   3rd Qu.:11.0   3rd Qu.:1.0000
##  Max.   :1.0000   Max.   :55.00   Max.   :16.0   Max.   :1.0000
##       hisp              marr            Year               value
##  Min.   :0.00000   Min.   :0.0000   Length:1335        Min.   :    0
##  1st Qu.:0.00000   1st Qu.:0.0000   Class :character   1st Qu.:    0
##  Median :0.00000   Median :0.0000   Mode  :character   Median :    0
##  Mean   :0.08764   Mean   :0.1685                      Mean   : 2927
##  3rd Qu.:0.00000   3rd Qu.:0.0000                      3rd Qu.: 4045
##  Max.   :1.00000   Max.   :1.0000                      Max.   :60308
```

16 Load the titanic in R and call the resulting data frame titanic

```
library(rio)

titantic = import("2021_exam2_data.xlsx", which = 1)
```

17. Summary Statistics of Titantic

```
summary(titantic)
```

```
##      class            age             female          survived
##  Min.   :1.000   Min.   :0.0000   Min.   :0.0000   Min.   :0.000
##  1st Qu.:2.000   1st Qu.:1.0000   1st Qu.:1.0000   1st Qu.:0.000
##  Median :3.000   Median :1.0000   Median :1.0000   Median :0.000
##  Mean   :2.977   Mean   :0.9505   Mean   :0.7865   Mean   :0.323
##  3rd Qu.:4.000   3rd Qu.:1.0000   3rd Qu.:1.0000   3rd Qu.:1.000
##  Max.   :4.000   Max.   :1.0000   Max.   :1.0000   Max.   :1.000
```

18. Correlation between gender and survival

```
titantic$male = NA
titantic$male[titantic$female==0]=1
titantic$male[titantic$female==1]=0

titantic$notsurvived = NA
```

```
titantic$notsurvived[titantic$survived==1]=0
titantic$notsurvived[titantic$survived==0]=1

cor(titantic$female,titantic$survived)
```

```
## [1] -0.4556048
```

```
cor(titantic$male,titantic$survived)
```

```
## [1] 0.4556048
```

```
library(doBy)
```

```
##
## Attaching package: 'doBy'
```

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

```
summaryBy(male ~ survived, data=titantic, FUN=c(mean,length))
```

```
##   survived  male.mean male.length
## 1        0 0.08456376        1490
## 2        1 0.48382560         711
```

The tab shows us that of those that survived (1), the male mean was higher than those that didn't survive. Meaning more men survived. So the correlation between the male gender and surving 0.4556048, means that more men survived.

19. ifelse first class

```
FirstClass <- titantic$class

ifelse(test = FirstClass == 1, yes = "Passenger had First Class", no = "Passenger did not have first cla
```

```
##    [1] "Passenger had First Class"          "Passenger had First Class"
##    [3] "Passenger had First Class"          "Passenger had First Class"
##    [5] "Passenger had First Class"          "Passenger had First Class"
##    [7] "Passenger had First Class"          "Passenger had First Class"
##    [9] "Passenger had First Class"          "Passenger had First Class"
##   [11] "Passenger had First Class"          "Passenger had First Class"
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##   [19] "Passenger had First Class"          "Passenger had First Class"
##   [21] "Passenger had First Class"          "Passenger had First Class"
##   [23] "Passenger had First Class"          "Passenger had First Class"
##   [25] "Passenger had First Class"          "Passenger had First Class"
```

```
##   [27] "Passenger had First Class"         "Passenger had First Class"
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##  [239] "Passenger had First Class"         "Passenger had First Class"
##  [241] "Passenger had First Class"         "Passenger had First Class"
```

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##  [243] "Passenger had First Class"          "Passenger had First Class"
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BONUS

"My Heart Will Go On" by Céline Dion