IDS 702 HW 3

Your Name Here

Instructions: Use this template to complete your assignment. When you click "Render," you should get a PDF document that contains both your answers and code. You must show your work/justify your answers to receive credit. Submit your rendered PDF file on Gradescope. **Remember to render frequently**, as this will help you to catch errors in your code before the last minute.

Add your name in the Author section in the header

Load data

```
library(tidyverse)
```

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

v ggplot2 3.4.0     v purrr   0.3.4
v tibble  3.1.8     v dplyr   1.1.0
v tidyr   1.2.0     v stringr 1.4.0
v readr   2.1.2     v forcats 0.5.1

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

```
college <- read.csv("https://raw.githubusercontent.com/anlane611/datasets/refs/heads/main/col
```

Exercise 1

a.

b.

c.

Level	Count (n)	Proportion or %

d.

Level	Count (n)	Proportion or %

e.

```
library(gridExtra)
```

```
Attaching package: 'gridExtra'

The following object is masked from 'package:dplyr':

    combine
```

```
p1 <- ggplot(college, aes(x=med_sat_value, y=grad_100_value,
                     color=factor(control)))+
  geom_point()

p2 <- ggplot(college, aes(x=med_sat_value, y=grad_100_value,
                     color=factor(control)))+
  geom_point()

p3 <- ggplot(college, aes(x=med_sat_value, y=grad_100_value,
```

```
                    color=factor(control)))+
  geom_point()

p4 <- ggplot(college, aes(x=med_sat_value, y=grad_100_value,
                    color=factor(control)))+
  geom_point()

p5 <- ggplot(college, aes(x=med_sat_value, y=grad_100_value,
                    color=factor(control)))+
  geom_point()

p6 <- ggplot(college, aes(x=med_sat_value, y=grad_100_value,
                    color=factor(control)))+
  geom_point()

grid.arrange(p1,p2,p3,p4,p5,p6, nrow=3)
```

```
Warning: Removed 168 rows containing missing values (`geom_point()`).
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```

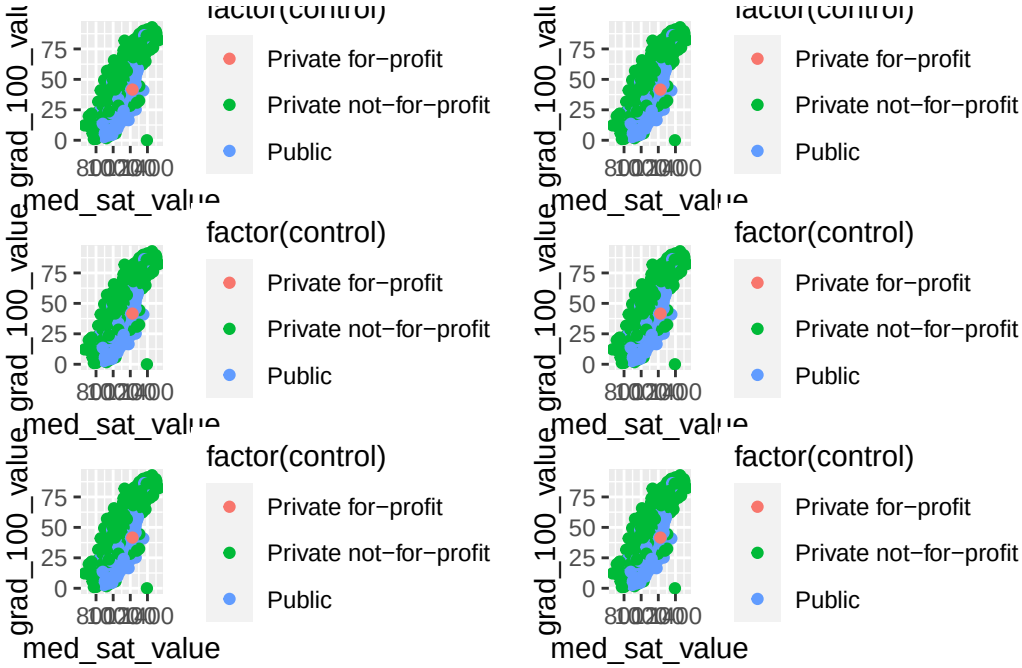

Exercise 2

a.

b.

c.

d.

e.

f.

g.

h.

Exercise 3

a.

b.

c.

d.

e.

f.

g.