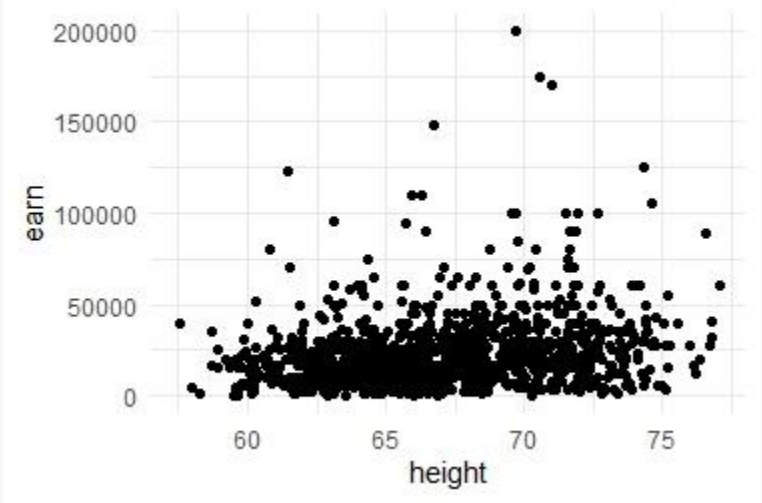
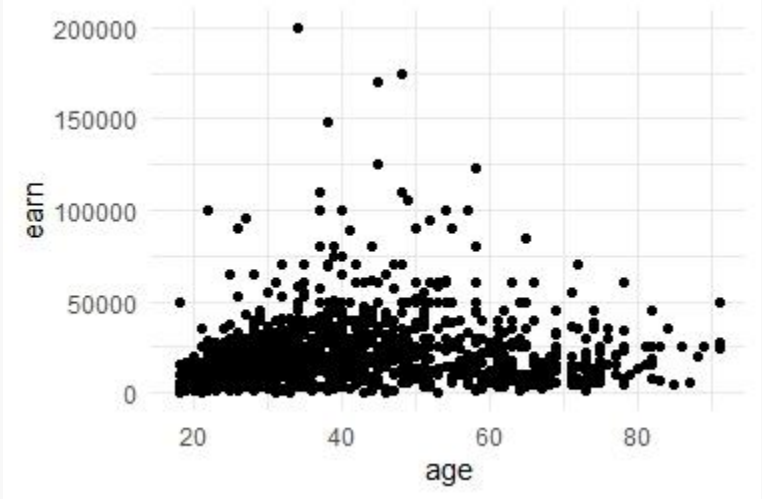
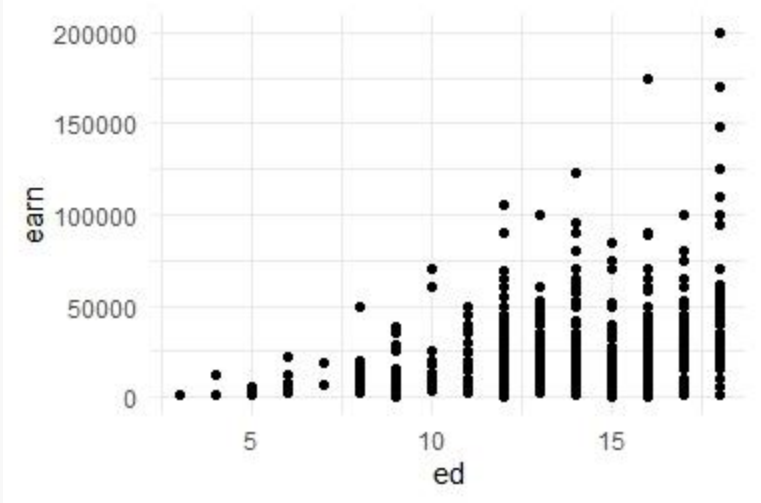
```
1.  # DSC520 Assignment: ASSIGNMENT 3
2.  # Name: Ruth Maina
3.  # Date: 12/18/2022
4.
5.  > library(ggplot2)
6.  > theme_set(theme_minimal())
7.
8.  > ## Load the `data/r4ds/heights.csv` to
9.  > heights_df <- read.csv("data/r4ds/heights.csv")
10.
11. > # https://ggplot2.tidyverse.org/reference/geom_point.html
12. > ## Using `geom_point()` create three scatterplots for
13. > ## `height` vs. `earn
14. > ggplot(heights_df, aes(x=height, y=earn)) + geom_point()
```



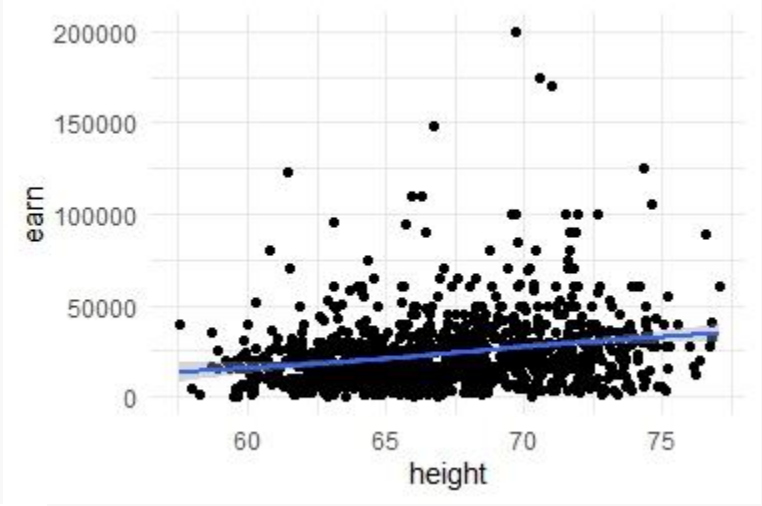

```
15. > ## `age` vs. `earn`
16. > ggplot(heights_df, aes(x=age, y=earn)) + geom_point()
```



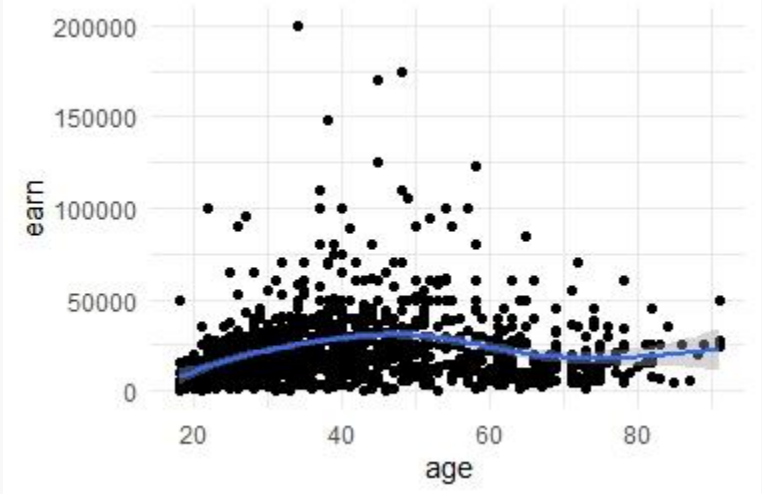

```
17. > ## `ed` vs. `earn`
18. > ggplot(heights_df, aes(x=ed, y=earn)) + geom_point()
```



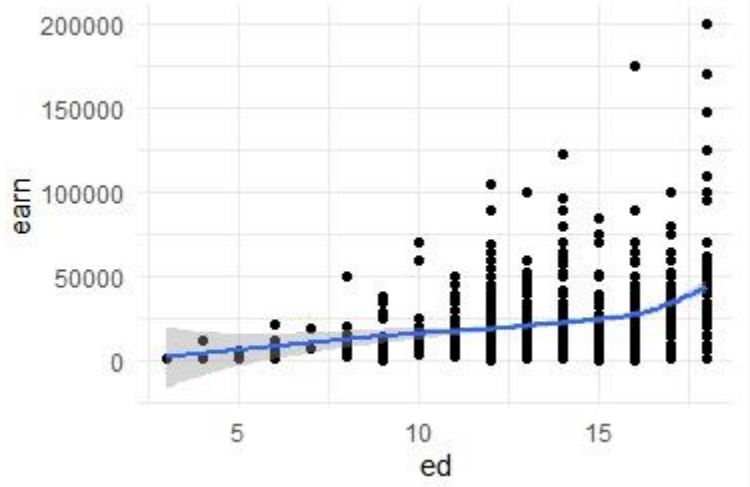

```
> ## Re-create the three scatterplots and add a regression trend line using
> ## the `geom_smooth()` function
> ## `height` vs. `earn`
> ggplot(heights_df, aes(x=height, y=earn)) + geom_point() + geom_smooth()
```



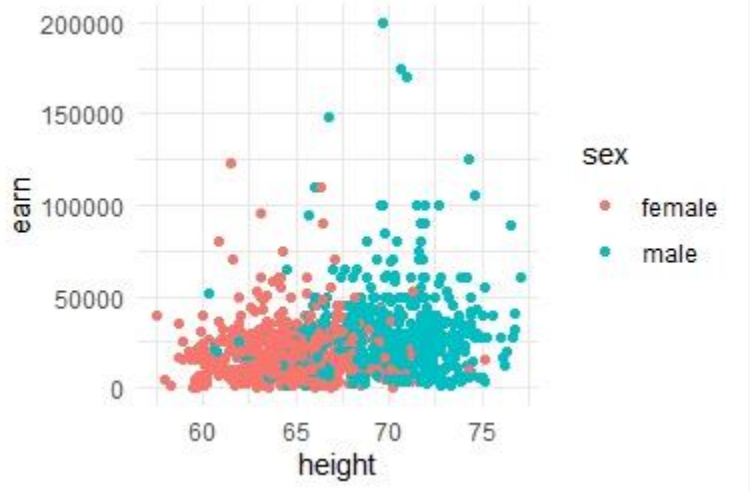

```
`> ## `age` vs. `earn`
> ggplot(heights_df, aes(x=age, y=earn)) + geom_point() + geom_smooth()
```



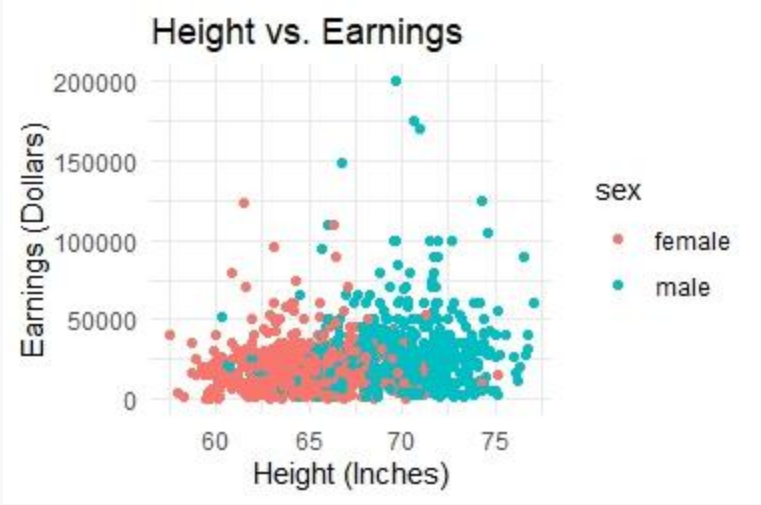
```
> ## `ed` vs. `earn
> ggplot(heights_df, aes(x=ed, y=earn)) + geom_point() + geom_smooth()
```



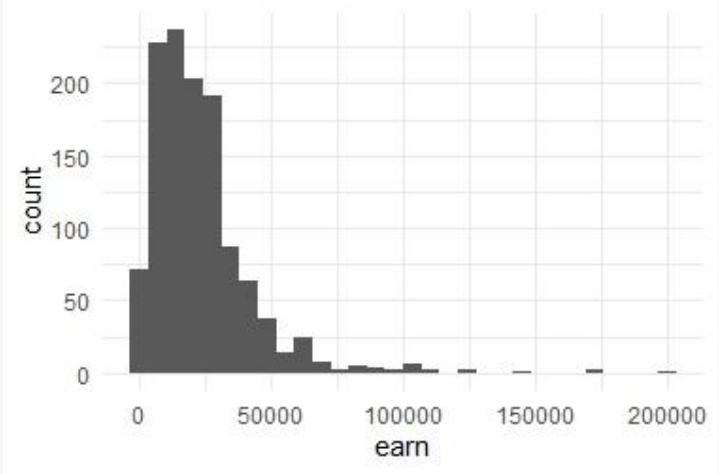

```
> ## Create a scatterplot of `height`` vs. `earn`.  Use `sex` as the `col` (color) attribute
> ggplot(heights_df, aes(x=height, y=earn, col=sex)) + geom_point()
```



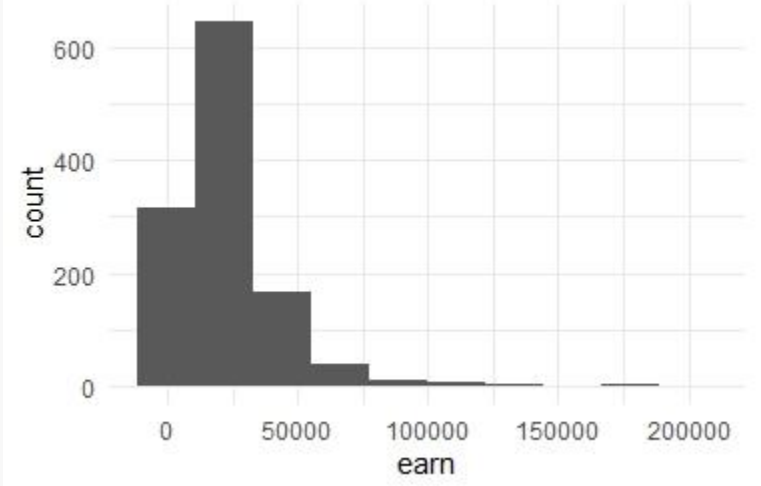

```
> ## Using `ggtitle()`, `xlab()`, and `ylab()` to add a title, x label, and y label to the previous plot
> ## Title: Height vs. Earnings
> ## X label: Height (Inches)
> ## Y Label: Earnings (Dollars)
> ggplot(heights_df, aes(x=height, y=earn, col=sex)) + geom_point() + ggtitle("Height vs. Earnings") + xlab("Height (Inches)") + ylab("Earnings (Dollars)")
```




```
> # https://ggplot2.tidyverse.org/reference/geom_histogram.html
> ## Create a histogram of the `earn` variable using `geom_histogram()`
> ggplot(heights_df, aes(x=earn)) + geom_histogram()
```




```
> ## Create a histogram of the `earn` variable using `geom_histogram()`
> ## Use 10 bins
> ggplot(heights_df, aes(x=earn)) + geom_histogram(bins = 10)
```



```
> # https://ggplot2.tidyverse.org/reference/geom_density.html
> ## Create a kernel density plot of `earn` using `geom_density()`
> ggplot(heights_df, aes(x=earn)) + geom_density()
```