Quarto & R Demo

[Insert Name]

Packages for class

Note: You can run code in a few different ways. You can click the green arrow in the code chunk; use a keyboard short cut (Ctrl+Enter for PC; Cmd+Return for Mac). For a list of other keyboard shortcuts, please visit the following: https://support.posit.co/hc/en-us/articles/200711853-Keyboard-Shortcuts-in-the-RStudio-IDE

```
library(tidyverse)
```

```
-- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
           1.1.2
v dplyr
                    v readr
                                 2.1.4
                     v stringr
v forcats
           1.0.0
                                 1.5.0
v ggplot2 3.4.2
                     v tibble
                                 3.2.1
v lubridate 1.9.2
                     v tidyr
                                 1.3.0
v purrr
           1.0.1
-- Conflicts ----- tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()
                 masks stats::lag()
i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become
```

Quarto is great

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see https://quarto.org.

mtcars

For the remainder of the class, we will use the mtcars data set.

• Take a glimpse of the data set using the glimpse function in R. Let's also label our code chunk!

```
glimpse(mtcars)
```

It's a good habit to commit and push after you answer questions. Let's demo this now!

- Use? before the function name to get more information about the pre-loaded data in R. Type this in the console. Click on Get a glimpse of your data in the help window.
- Now, filter out the any cars who weigh more than 4000 lbs in a single pipeline.

```
#insert code here
```

• Notice how the data were not overwritten by running mtcars in the console.

Now, filter out the any cars who weigh more than 4000 lbs and save the new data set named small_cars.

```
#insert code here
```

• Using your new data set, take the mean weight of cars using the summarise function. Report the mean below. Hint, look up the help file to the function, and scroll down to the examples.

#insert code here

Render

When you click the **Render** button a document will be generated that includes both content and the output of embedded code. Note: if something is wrong with your code, your document will not render.

Optional

• Visit the follow website: https://dplyr.tidyverse.org/reference/index.html

Choose a function of your choice and try to implement it on these data below

#insert code here