Data Wranglin Practice

Instructions

> 💡 **Tip**
>
> It is often helpful to read the assignment in its entirety before starting to work on it.

1) Set up your R script for this assignment (name, uNID, date, assignment number). Install (if necessary) and load the packages below.

- `tidyverse`
- `summarytools`
- `rstatix`

2) Read `broadway.csv` into R like you did in LA-4 using the `read_csv()` function.

3) Use the pipe operator (`|>`), and the `filter()` and `summarise()` functions to answer the following questions:

    a) What is the minimum number of people who attended *Miss Saigon*?
    b) What is the maximum number of people who attended *Miss Saigon*?
    c) What is the mean number of people who attended *Miss Saigon*?

4) Let's run a frequency distribution to see how many of each type of show (i.e., musicals, plays, specials) are in our dataset. To do this, we use the `freq()` function, which is included in the `summarytools` package. Use the frequency table that is output in the Console to determine how many shows were plays.

5) How many plays, musicals, and specials were performed at the Brooks Atkinson Theater in New York? You may need to examine a frequency distribution of the names of the theatres in the dataset to determine how to filter your data so that you only examine one specific theatre.

6) How many musicals and plays were there at the Stephen Sondheim theatre in 2011?

Submission

Submit your R script (named `AssignmentName_FirstName-LastName.R`) to Canvas.

Your R script should:

1) Include commands and functions that are necessary to address all the questions in the assignment.
2) Contain comments that answer the questions in the assignment.
3) Run in its entirety without errors.

To ensure that your R script runs without errors, you should:

- Save your script.
- Navigate back to Your Workspace on Posit Cloud.
- Reopen your project.

- Run the entire script line-by-line without editing it to ensure there are no errors.

> **❗ Important**
>
> These standards apply to all submissions in this course that require R scripts. You should follow these instructions for preparation, naming, and saving of your R script for all of your individual lab assignments.