

Practice Data Wrangling

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?
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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.