Week 3 (LAB 1): Data Wrangling with dplyr
PSTAT100: Data Science Concepts and Analysis

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💡 Submission Instructions

- This LAB must be completed and submitted **individually**. Collaboration is allowed for discussion, but each student must submit their own work.

- Ensure that all `R` code are presented clearly and appropriately.

- All figures should be numbered, and axes must be labeled.

- Please use the provided `LAB 1.qmd` file to type your solutions and submit the completed LAB as a PDF file. You can utilize `RStudio` for this purpose. For guidance, refer to the Tutorial: Hello, Quarto).

- Submit your solution via **Gradescope**.

🔥 Due Date

Due Date: Thursday, April 17, 2025, 11:59 PM

:::{.callout-important} # **Exercises**

Question 1:

Add a new column called `rank1` containing integers 1-4 expressing your personal taste preference (1 = tastiest). Make sure numbers are unique.

Replace this line with your answers

Question 2:

Create a new dataframe `fruit_info_mod1` with an additional column `rank2` containing the same values as `rank1`. **Replace this line with your answers**

Question 3:

Remove all rank columns from `fruit_info_mod1` and store as `fruit_info_original`.

Replace this line with your answers

Question 4:

Rename columns to capitalize them using `rename()`.

Replace this line with your answers

Question 5:

Check the dimensions of `baby_names` and store as `dimensions_baby_names`.

Replace this line with your answers

Question 6:

Count how many names appear in each year and store as `occur_per_year`. Also store the number of distinct years as `num_years`.

Replace this line with your answers

Question 7:

Find all entries for a friend's name and select just the Count, Sex, and Year columns.

Replace this line with your answers

Question 8:

Find all girl names in 2010 that were given more than 3000 times.

Question 9:

Find which name was most common in 1995 and how many babies had that name.

Question 10:

Count how many distinct names there were for each sex in 1995.

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