# Socio-Informatics 348 Practical 9

### **Submission Instructions**

- Submit your completed practical as studentnumber.qmd on SocSciLearn.
- Submissions are checked for completeness, not correctness.
- At least 80% of exercises must be attempted to receive 1% towards AF assessment.
- Attendance of at least one practical session per week is required to earn the 1% for that week's practical.

### Deadline

Friday 17 October, 17:00 (submit on SocSciLearn)

## **Chapters Covered:**

• R4DS: Chapter 25-26

#### **Exercises**

- 1. Practice your across() skills by:
  - Computing the number of unique values in each column of palmerpenguins::penguins.
  - Computing the mean of every column in mtcars.
  - Grouping diamonds by cut, clarity, and color then counting the number of observations and computing the mean of each numeric column.
- 2. Adjust expand\_dates() to automatically remove the date columns after they've been expanded. Do you need to embrace any arguments?

Socio Informatics 348 Practical 9

3. Explain what each step of the pipeline in this function does. What special feature of where() are we taking advantage of?

```
show_missing <- function(df, group_vars, summary_vars = everything()) {
    df |>
        group_by(pick({{      group_vars }})) |>
        summarize(
        across({{        summary_vars }}, \(x)        sum(is.na(x))),
        .groups = "drop"
    ) |>
        select(where(\(x)        any(x > 0)))
}
nycflights13::flights |> show_missing(c(year, month, day))
```