FDS::cheatsheets["project 3"]





Hints

Part 1

- · Import and clean the datasets.
- Store them in variables

Part 2

- Create a dataset containing the number of recommendations by each member.
- Rely on the recommendation from column
- · Attach it it to the dataset using the a joining {dplyr} verb and the by= argument

Part 3

- Rely on the joined table created in point 3
- Use dplyr::filter() or dplyr::slice max() and dplyr::pull()

Part 4

- Rely on the joined table created in point 3
- Use dplyr::filter() or dplyr::slice_max() and dplyr::pull()

Part 5

- Rely on the joined table created in point 3
- Use dplyr::filter() or dplyr::slice max() and dplyr::pull()

Part 6

Use dplyr::mutate()

Part 7

· You could use a set operator or a filtering join

Part 8

- If you don't remember it is tidy::pivot_longer()
- Use dplyr::rename() to change the weight into wk 000
- · You can use a selection helper

Part 9

Use dplyr::filter() or dplyr::slice_max() and dplyr::pull()

Part 10

- Use dplyr::filter()
- dplyr::group by() and dplyr::lag() can work in conjunction

Data Import

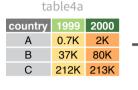
readr::read csv("file.csv") Allows you to read a comma delimited file

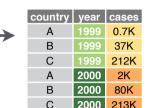
Data Cleaning

janitor::clean_names() Creates columns names in 'snake case'

janitor::tabyl() Allows you to create frequency tables

Pivoting Data





pivot longer(data, cols, names to = "name", values to = "value", values drop na = FALSE)

"Lengthen" data by collapsing several columns into two. Column names move to a new names to column and values to a new values to column.

```
pivot longer(table4a, cols = 2:3,
names_to ="year",
values_to = "cases")
```

Data Wrangling

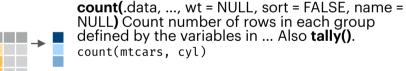
COUNTING

summarise() applies summary functions to columns to create a new table. Summary functions take vectors as input and return single values as output.

dplyr::**n()** - number of values/rows dplyr::n distinct() - # of uniques sum(!is.na()) - # of non-NA's



summarise(.data, ...**)** Compute table of summaries. summarise(mtcars, avg = mean(mpg))



COUNTING GROUP SIZES

Use **group_by(**.data, ..., .add = FALSE, .drop = TRUE**)** to create a "grouped" copy of a table grouped by columns in ... dplyr functions will manipulate each "group" separately and combine the results.



АВС a t 3 b u 2

JOINS AND FILTERING JOINS

left_join(x, y, by = NULL) Join matching values from y to x.

АВС a t 1

semi join(x, y, by = NULL, copy = FALSE, ..., na matches = "na") Return rows of x that have a match in y. Use to see what will be included in a

АВС

anti join(x, y, by = NULL, copy = FALSE, ... na_matches = "na") Return rows of x that do not have a match in y. Use to see what will not be included in a join.

COLUMN MATCHING FOR JOINS



Use by = c("col1", "col2", ...) to specify one or more common columns to match on. $left_join(x, y, by = "A")$



Use a named vector, $\mathbf{by} = \mathbf{c("col1" = "col2")}$, to match on columns that have different names in each table.

 $left_join(x, y, by = c("C" = "D"))$

SET OPERATIONS

intersect(x, y, ...)

Rows that appear in both x and y.



setdiff(x, y, ...)

Rows that appear in x but not y.