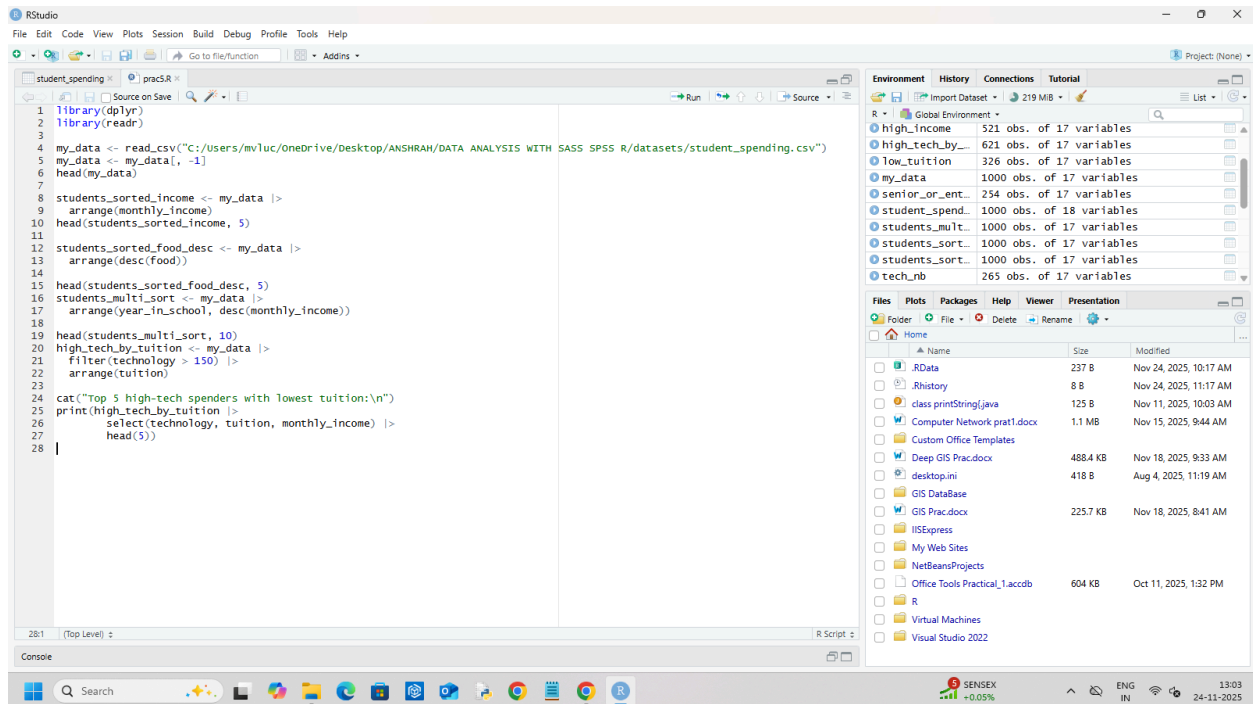


MVLU COLLEGE

AIM: Sorting data using arrange() in R.

INPUT:



ANSHRAH SHAIKH

S111

SYCS

DATA ANALYSIS WITH SAS / SPSS / R PRAC

MVLU COLLEGE

OUTOUT:

```
RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function
Source
Run
Source
R Script
student_spending.R
281 (Top Level)
Console Terminal Background Jobs
R - R 4.1.2 - /-
> library(dplyr)
> library(readr)
>
> my_data <- read_csv("C:/Users/mvluc/OneDrive/Desktop/ANSHRAH/DATA ANALYSIS WITH SAS SPSS R/datasets/student_spending.csv")
New names:
  * ``> ``.1
Rows: 1000 Columns: 18
Column specification:
  delimiter: ","
chr (4): gender, year_in_school, major, preferred_payment_method
dbl (14): ..., age, monthly_income, financial_aid, tuition, housing, food, transportation, books_supplies, entertainment, ...
i Use 'spec()' to retrieve the full column specification for this data.
i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
> my_data <- my_data[, -1]
> head(my_data)
# A tibble: 6 x 17
  age gender year_in_school major monthly_income financial_aid tuition housing food transportation books_supplies
  <dbl> <chr> <chr> <chr> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>
1 19 Non-binary Freshman Psychology 958 270 5939 709 296 123 188
2 24 Female Junior Economics 1006 875 4908 557 365 85 252
3 24 Non-binary Junior Economics 734 928 3051 666 220 137 99
4 23 Female Senior Computer Sc- 617 265 4935 652 289 114 223
5 20 Female Senior Computer Sc- 810 522 3887 825 372 168 194
6 25 Non-binary Sophomore Computer Sc- 523 790 3151 413 386 122 131
# 6 more variables: entertainment <dbl>, personal_care <dbl>, technology <dbl>, health_wellness <dbl>, miscellaneous <dbl>,
# preferred_payment_method <chr>
>
> students_sorted_income <- my_data |>
+ arrange(monthly_income)
> head(students_sorted_income, 5)
# A tibble: 5 x 17
  age gender year_in_school major monthly_income financial_aid tuition housing food transportation books_supplies
  <dbl> <chr> <chr> <chr> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>
1 18 Male Freshman Biology 501 422 3257 612 149 142 72
2 22 Female Junior Computer Sc- 502 755 2717 473 153 54 53
3 22 Non-binary Freshman Psychology 503 57 3138 843 276 177 175
4 23 Non-binary Sophomore Psychology 503 158 4627 696 361 121 136
5 23 Female Junior Biology 504 775 4132 997 237 69 199
# 6 more variables: entertainment <dbl>, personal_care <dbl>, technology <dbl>, health_wellness <dbl>, miscellaneous <dbl>,
# preferred_payment_method <chr>
>
> head(students_sorted_food_desc, 5)
# A tibble: 5 x 17
  age gender year_in_school major monthly_income financial_aid tuition housing food transportation books_supplies
  <dbl> <chr> <chr> <chr> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>
1 25 Female Junior Biology 1054 528 5486 789 400 81 211
2 22 Male Junior Engineering 1212 529 4012 897 400 53 120
3 19 Non-binary Freshman Engineering 855 397 4028 633 400 146 174
4 20 Non-binary Junior Psychology 1255 82 4739 465 400 68 190
5 20 Non-binary Sophomore Biology 1110 400 3325 586 400 62 120
# 6 more variables: entertainment <dbl>, personal_care <dbl>, technology <dbl>, health_wellness <dbl>, miscellaneous <dbl>,
# preferred_payment_method <chr>
> students_multi_sort <- my_data |>
+ arrange(year_in_school, desc(monthly_income))
>
> head(students_multi_sort, 10)
# A tibble: 10 x 17
  age gender year_in_school major monthly_income financial_aid tuition housing food transportation books_supplies
  <dbl> <chr> <chr> <chr> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>
1 24 Non-binary Freshman Economics 1496 75 3301 657 151 63 92
2 25 Female Freshman Computer S- 1495 892 3325 767 182 97 213
3 18 Non-binary Freshman Economics 1489 202 4710 921 101 187 122
4 24 Non-binary Freshman Biology 1487 940 3167 765 202 146 183
5 19 Male Freshman Biology 1485 53 3659 651 221 198 124
6 18 Female Freshman Biology 1484 594 4636 518 299 74 55
7 19 Male Freshman Biology 1482 705 4973 433 294 144 233
8 25 Male Freshman Computer S- 1482 92 3987 540 194 125 193
9 23 Male Freshman Psychology 1479 418 3501 960 344 103 239
10 20 Female Freshman computer S- 1466 977 3400 698 283 135 58
# 6 more variables: entertainment <dbl>, personal_care <dbl>, technology <dbl>, health_wellness <dbl>, miscellaneous <dbl>,
# preferred_payment_method <chr>
> high_tech_by_tuition <- my_data |>
+ filter(technology > 150) |>
+ arrange(tuition)
>
> cat("Top 5 high-tech spenders with lowest tuition:\n")
Top 5 high-tech spenders with lowest tuition:
> print(high_tech_by_tuition |>
+ select(technology, tuition, monthly_income) |>
+ head(5))
```

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