

MVLU COLLEGE.

PRACTICAL NO :- 05

AIM :- Sorting data using arrange() in R.

CODE :-

```
install.packages(c("readr", "psych"))
```

```
library(dplyr)
```

```
data <- read.csv("D:/S100/Cleaned_Mental_Health_and_Social_Media_Balance.csv")
```

```
colnames(data)
```

```
names(data)[4] <- "screen_time"
```

```
names(data)[5] <- "sleep"
```

```
names(data)[6] <- "stress"
```

```
names(data)[7] <- "days_off"
```

```
names(data)[8] <- "exercise"
```

```
names(data)[10] <- "happiness"
```

```
data_clean <- data
```

```
data_clean |> arrange(stress_level.1.10.) |> head(5)
```

```
data_clean |> arrange(desc(sleep_quality.1.10.)) |> head(5)
```

```
data_clean |> arrange(stress_level.1.10., desc(happiness_index.1.10.)) |> head(10)
```

```
data_clean |>
```

```
  filter(days_without_social_media > 3) |>
```

```
  arrange(stress_level.1.10.) |>
```

```
  select(user_id, days_without_social_media, stress_level.1.10.) |>
```

```
  head(5)
```

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The image displays two screenshots of the RStudio interface, showing the process of data manipulation and error handling in R.

Top Screenshot:

- Console:** Shows the execution of `data_clean <- data` and `data_clean |> arrange(screen_time) |> head(5)`. An error occurs: `Error in 'arrange()': ! In argument: '..1 = screen_time'. Caused by error: ! object 'screen_time' not found. Run 'rlang::last_trace()' to see where the error occurred.`
- Environment:** Lists the following objects: `data` (500 obs. of 10 variables), `data_clean` (500 obs. of 10 variables), `student` (6607 obs. of 20 variables), `students` (520 obs. of 6 variables), and `students_s` (104 obs. of 6 variables).
- Code:** The user attempts to view the data and then uses `data_clean |> arrange(desc(daily_screen_time.hrs)) |> head(5)` and `data_clean |> arrange(desc(daily_screen_time.hrs)) |> head(5)`. Another error occurs: `Error: unexpected symbol in: "data_clean |> arrange(desc(daily_screen_time.hrs)) |> head(5) data_clean"`.

Bottom Screenshot:

- Console:** Shows the execution of `data_clean |> arrange(desc(sleep_quality.1.10)) |> head(5)`. An error occurs: `Error in 'arrange()': ! In argument: '..1 = sleep'. Caused by error: ! '..1' must be size 500 or 1, not 20. Run 'rlang::last_trace()' to see where the error occurred.`
- Environment:** Lists the same objects as the top screenshot.
- Code:** The user attempts to arrange the data by `sleep` and then uses `data_clean |> arrange(stress_level.1.10, desc(happiness_index.1.10)) |> head(10)`. The console shows the resulting data frame with 10 rows and 10 columns.

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The screenshot shows the RStudio environment with a script editor on the left and the Environment pane on the right. The script editor contains R code for data cleaning, including filtering and selecting variables. An error message is displayed in the console, indicating that the object 'days_off' is not found. The Environment pane shows the following data objects:

Object	Size
data	500 obs. of 10 variables
data_clean	500 obs. of 10 variables
student	6607 obs. of 20 variables
students	520 obs. of 6 variables
students_s	104 obs. of 6 variables

```
R - R 4.5.2 - ~/R
File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function Addins

Source
Console Terminal Background Jobs

1 0056 29 Female 4.0 7 3 3
2 0263 38 Female 2.7 6 3 4
3 0325 18 Male 1.7 9 3 1
4 0332 43 Female 4.3 6 3 3
5 0379 23 Male 1.5 9 3 2
6 0408 28 Male 2.6 10 3 4
7 0452 21 Female 2.5 9 3 2
8 exercise_frequency.week social_media_platform happiness_index.1.10.
9 0 Facebook 10
10 0 LinkedIn 10
11 4 X (Twitter) 10
12 3 TikTok 10
13 4 YouTube 10
14 2 X (Twitter) 10
15 2 TikTok 10
16 3 TikTok 10
17 3 TikTok 10
18 5 Instagram 10
19 5 TikTok 10
20
21 > data_clean |>
22 + filter(days_off > 3) |>
23 + arrange(stress_level.1.10.) |>
24 + select(user_id, days_off, stress_level.1.10.) |>
25 + head(5)
26
27 Error in 'filter()':
28 i in argument: 'days_off' not found.
29 Caused by error:
30 ! object 'days_off' not found
31 Run 'rlang::last_trace()' to see where the error occurred.
32
33 > data_clean |>
34 + filter(days_without_social_media > 3) |>
35 + arrange(stress_level.1.10.) |>
36 + select(user_id, days_without_social_media, stress_level.1.10.) |>
37 + head(5)
38 user_id days_without_social_media stress_level.1.10.
39 1 0263 4 3
40 2 0408 4 3
41 3 0028 5 4
42 4 0051 5 4
43 5 0066 5 4
44
45 > |
```