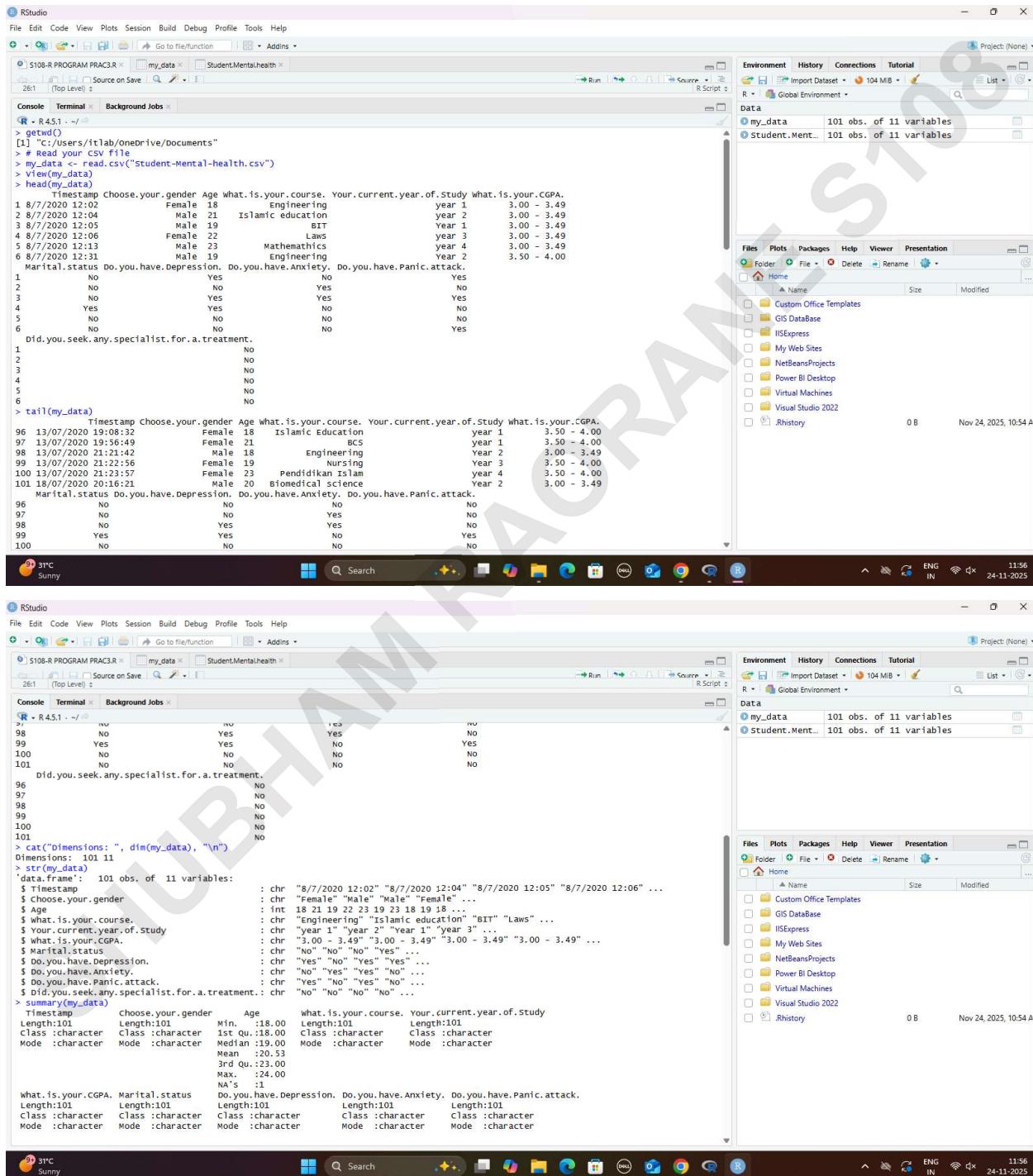


# SHETH L.U.J & SIR M.V COLLEGE OF SCIENCE

## SUBJECT : Data Analysis with SAS / SPSS /R

**AIM : Exploring data: Displaying datasets using PROC PRINT (SAS), Data Viewer (SPSS), and View() or print() (R).**

### OUTPUT



The screenshot shows two instances of the RStudio interface. Both instances have the following setup:

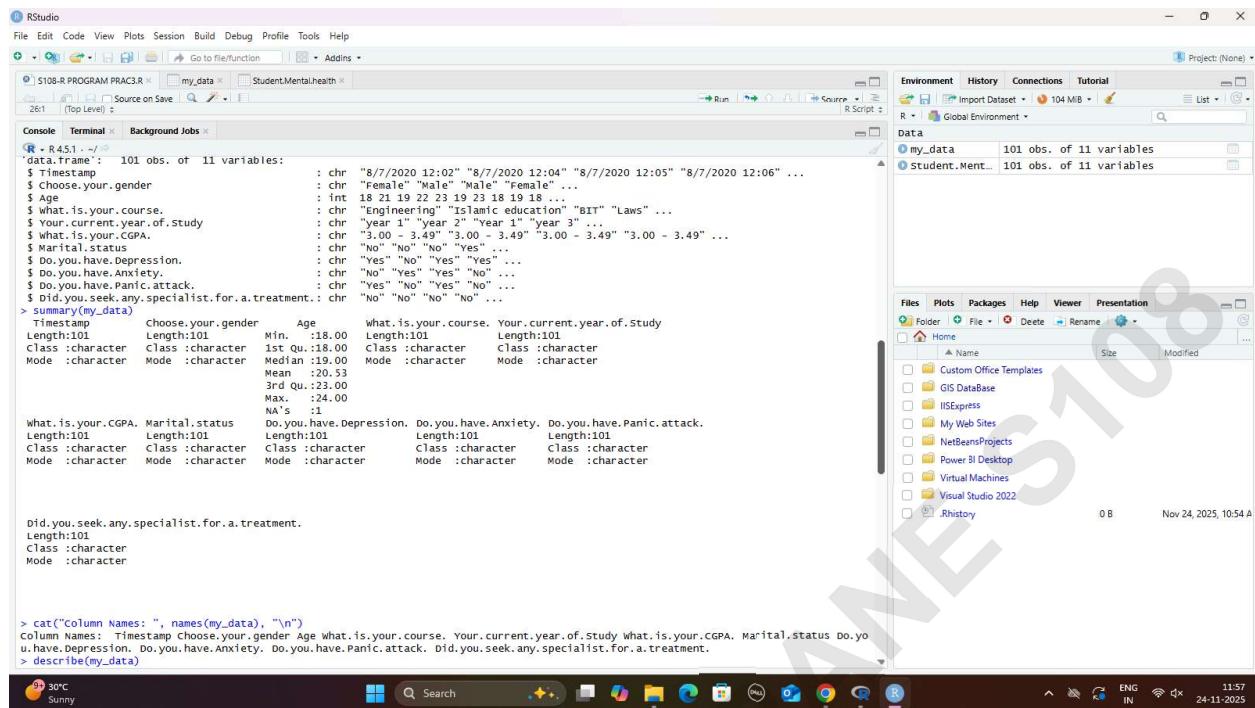
- Console Tab:** Displays R code and its output. The code includes reading a CSV file ('Student-Mental-health.csv'), viewing the first few rows ('head(my\_data)'), and viewing the last few rows ('tail(my\_data)'). It also shows the dimensions of the dataset ('Dimensions: 101 11') and the structure of the data frame ('str(my\_data)').
- Environment Tab:** Shows two global variables: 'my\_data' (101 obs. of 11 variables) and 'Student.Ment...' (101 obs. of 11 variables).
- File Explorer:** Shows the local directory structure, including files like 'Custom Office Templates', 'GIS DataBase', 'IISExpress', 'My Web Sites', 'NetBeansProjects', 'Power BI Desktop', 'Virtual Machines', and 'Visual Studio 2022'. A file named '.Rhistory' is visible.
- System Tray:** Shows the date and time (Nov 24, 2025, 10:54 AM) and system status (ENG IN).

```

RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function Addins
my_data Student.Mental.health
Source on Save Run Source R Script
261 [Top Level]
Console Terminal Background Jobs
R - R 4.5.1 - ~/my_data
[1] "C:/users/itlab/onedrive/documents"
> # Read your CSV file
> my_data <- read.csv("Student-Mental-health.csv")
> view(my_data)
> head(my_data)
  Timestamp Choose.your.gender Age what.is.your.course Your.current.year.of.study what.is.your.CGPA.
1 8/7/2020 12:02   Female 18      Engineering        year 1 3.00 - 3.49
2 8/7/2020 12:04     Male 23 Islamic education        year 2 3.00 - 3.49
3 8/7/2020 12:05     Male 21      BITT            year 1 3.00 - 3.49
4 8/7/2020 12:06   Female 22       Laws            year 3 3.00 - 3.49
5 8/7/2020 12:13     Male 23 Mathematics        year 4 3.00 - 3.49
6 8/7/2020 12:31     Male 19      Engineering        Year 2 3.50 - 4.00
Marital.status Do.you.have.depression. Do.you.have.Anxiety. Do.you.have.Panic.attack.
1           NO          Yes           NO          Yes
2           NO          No            Yes          No
3           Yes         Yes           No            No
4           Yes         Yes           No            No
5           No           No           No            No
6           No           No           No           Yes
Did.you.seek.any.specialist.for.a.treatment.
1           NO
2           NO
3           NO
4           NO
5           NO
6           NO
> tail(my_data)
  Timestamp Choose.your.gender Age what.is.your.course Your.current.year.of.study what.is.your.CGPA.
96 13/07/2020 19:08:32   Female 18 Islamic Education        year 1 3.50 - 4.00
97 13/07/2020 19:56:49   Female 21             BCS            year 1 3.50 - 4.00
98 13/07/2020 21:21:42     Male 18      Engineering        year 2 3.00 - 3.49
99 13/07/2020 21:22:56   Female 19       Nursing            year 3 3.50 - 4.00
100 13/07/2020 21:23:57   Female 23 Pendidikan Islam        year 4 3.50 - 4.00
101 18/07/2020 20:16:21     Male 20 Biomedical science        year 2 3.00 - 3.49
Marital.status Do.you.have.depression. Do.you.have.Anxiety. Do.you.have.Panic.attack.
96           NO          No           No          No
97           No          Yes          Yes          No
98           No          Yes          Yes          No
99           Yes         Yes           No           Yes
100          No           No           No           No
101          No           No           No           No
> cat("Dimensions: ", dim(my_data), "\n")
Dimensions: 101 11
> str(my_data)
'data.frame': 101 obs. of 11 variables:
 $ Timestamp: chr "8/7/2020 12:02" "8/7/2020 12:04" "8/7/2020 12:05" "8/7/2020 12:06" ...
 $ Choose.your.gender: chr "Female" "Male" "Male" "Female" ...
 $ Age: int 18 21 19 22 23 19 23 18 19 18 ...
 $ what.is.your.course: chr "Engineering" "Islamic education" "BITT" "Laws" ...
 $ Your.current.year.of.study: chr "year 1" "year 2" "year 1" "year 3" ...
 $ what.is.your.CGPA: chr "3.00 - 3.49" "3.00 - 3.49" "3.00 - 3.49" "3.00 - 3.49" ...
 $ Marital.status: chr "No" "No" "No" "Yes" ...
 $ Do.you.have.depression.: chr "Yes" "No" "Yes" "Yes" ...
 $ Do.you.have.Anxiety.: chr "No" "Yes" "Yes" "No" ...
 $ Do.you.have.Panic.attack.: chr "Yes" "No" "Yes" "No" ...
 $ Did.you.seek.any.specialist.for.a.treatment.: chr "No" "No" "No" "No" ...
> summary(my_data)
Timestamp Choose.your.gender Age what.is.your.course Your.current.year.of.study
Length:101 Length:101 Min. :18.00 Length:101 Length:101
Class :character Class :character 1st Qu.:18.00 Class :character Class :character
Mode :character Mode :character Median :19.00 Mode :character Mode :character
                                         Mean :20.53
                                         3rd Qu.:23.00
                                         Max. :24.00
                                         NA's :1
what.is.your.CGPA. Marital.status Do.you.have.depression. Do.you.have.Anxiety. Do.you.have.Panic.attack.
Length:101 Length:101 Length:101 Length:101 Length:101
Class :character Class :character Class :character Class :character Class :character
Mode :character Mode :character Mode :character Mode :character Mode :character
  
```

# SHETH L.U.J & SIR M.V COLLEGE OF SCIENCE

## SUBJECT : Data Analysis with SAS / SPSS /R



RStudio Environment pane showing:

- Import Dataset: 104 MB
- Data:
  - my\_data: 101 obs. of 11 variables
  - Student.Ment...: 101 obs. of 11 variables

Console output (R 4.5.1) showing summary statistics for 'my\_data':

```

data.frame': 101 obs. of 11 variables:
 $ Timestamp: chr "8/7/2020 12:02" "8/7/2020 12:04" "8/7/2020 12:05" "8/7/2020 12:06" ...
 $ Choose.your.gender: chr "Female" "Male" "Male" "Female" ...
 $ Age: int 18 21 19 22 23 23 18 19 18 ...
 $ What.is.your.course: chr "Engineering" "Biology education" "BIT" "Laws" ...
 $ Your.current.year.of.study: chr "Year 1" "Year 2" "Year 1" "Year 3" ...
 $ What.is.your.CGPA: chr "3.00 - 3.49" "3.00 - 3.49" "3.00 - 3.49" "3.00 - 3.49" ...
 $ Marital.status: chr "No" "No" "Yes" ...
 $ Do.you.have.Depression: chr "Yes" "No" "Yes" ...
 $ Do.you.have.Anxiety: chr "No" "Yes" "Yes" "No" ...
 $ Do.you.have.Panic.attack: chr "Yes" "No" "Yes" "No" ...
 $ Did.you.seek.any.specialist.for.a.treatment: chr "No" "No" "No" ...

```

summary(my\_data)

|                  | Choose.your.gender | Age           | What.is.your.course. | Your.current.year.of.study | What.is.your.CGPA. | Marital.status  | Do.you.have.Depression | Do.you.have.Anxiety | Do.you.have.Panic.attack | Did.you.seek.any.specialist.for.a.treatment |
|------------------|--------------------|---------------|----------------------|----------------------------|--------------------|-----------------|------------------------|---------------------|--------------------------|---|
| Length:101       | Length:101         | Min. :18.00   | Length:101           | Length:101                 | Mean :20.53        | Mode :character | Class :character       | Class :character    | Class :character         | Length:101                                  |
| Class :character | Class :character   | 1st Qu.:18.00 | Class :character     | 1st Qu.:18.00              | Median :19.00      | Mode :character | Median :character      | Median :character   | Median :character        | Median :character                           |
| Mode :character  | Mode :character    | 3rd Qu.:23.00 | Mode :character      | 3rd Qu.:23.00              | Mean :20.53        | NA's :1         | NA's :1                | NA's :1             | NA's :1                  | NA's :1                                     |
|                  |                    | Max. :24.00   |                      |                            |                    |                 |                        |                     |                          |   |

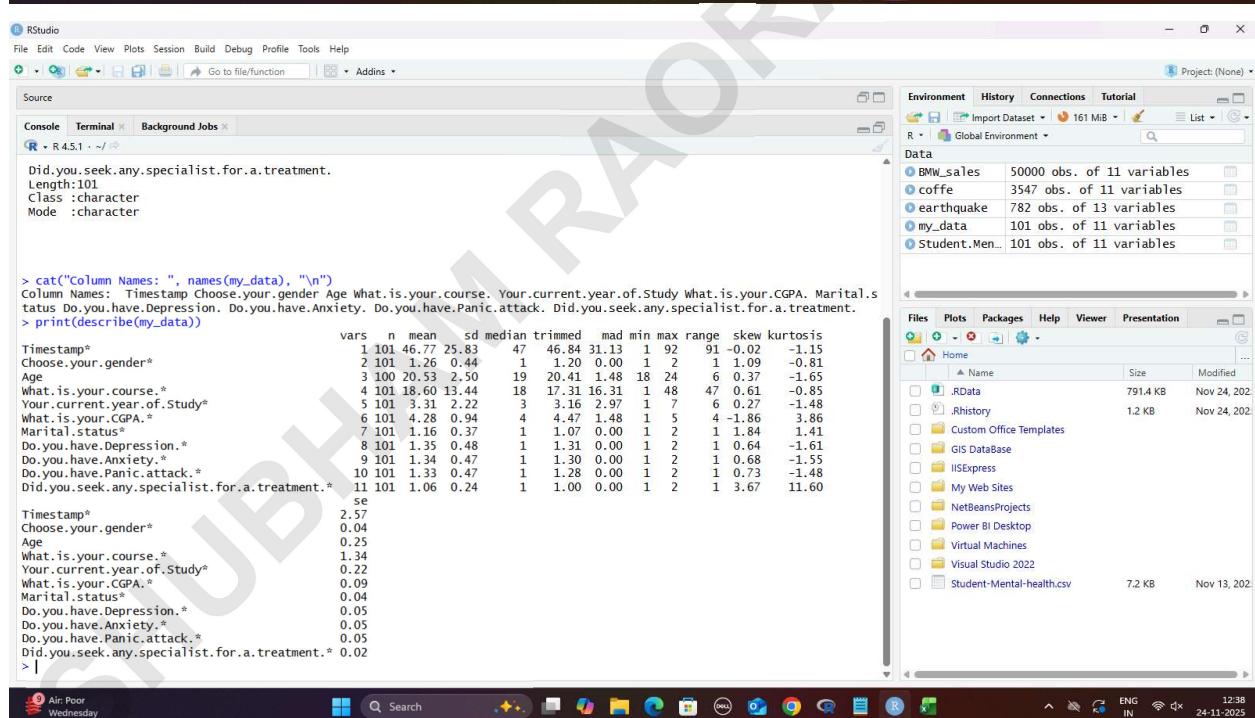
What.is.your.CGPA. Marital.status Do.you.have.Depression. Do.you.have.Anxiety. Do.you.have.Panic.attack.

Did.you.seek.any.specialist.for.a.treatment.

> cat("Column Names: ", names(my\_data), "\n")

Column Names: Timestamp Choose.your.gender Age What.is.your.course. Your.current.year.of.Study What.is.your.CGPA. Marital.status Do.you.have.Depression. Do.you.have.Anxiety. Do.you.have.Panic.attack. Did.you.seek.any.specialist.for.a.treatment.

> describe(my\_data)



RStudio Environment pane showing:

- Import Dataset: 161 MB
- Data:
  - BMW\_sales: 50000 obs. of 11 variables
  - coffe: 3547 obs. of 11 variables
  - earthquake: 782 obs. of 13 variables
  - my\_data: 101 obs. of 11 variables
  - Student.Men...: 101 obs. of 11 variables

Console output (R 4.5.1) showing summary statistics for 'my\_data':

| vars  | n  | mean | sd    | median | trimmed | mad   | min   | max | range | skew | kurtosis |       |
|---|----|------|-------|--------|---------|-------|-------|-----|-------|------|----------|-------|
| Timestamp*                                    | 1  | 101  | 46.77 | 25.83  | 47      | 46.84 | 31.13 | 1   | 92    | 91   | -0.02    | -1.15 |
| Choose.your.gender*                           | 2  | 101  | 1.20  | 0.44   | 1       | 1.20  | 0.00  | 1   | 2     | 1    | 1.09     | -0.81 |
| Age   | 3  | 100  | 20.53 | 2.50   | 19      | 20.41 | 1.48  | 18  | 24    | 6    | 0.37     | -1.65 |
| What.is.your.course.*                         | 4  | 101  | 18.60 | 13.44  | 18      | 17.31 | 16.31 | 1   | 48    | 47   | 0.61     | -0.85 |
| Your.current.year.of.Study*                   | 5  | 101  | 3.31  | 2.32   | 3       | 3.16  | 2.97  | 1   | 7     | 6    | 0.27     | -1.48 |
| What.is.your.CGPA.*                           | 6  | 101  | 4.48  | 0.94   | 4       | 4.47  | 1.48  | 1   | 5     | 4    | 1.86     | 3.86  |
| Marital.status*                               | 7  | 101  | 1.16  | 0.37   | 1       | 1.07  | 0.00  | 1   | 2     | 1    | 1.84     | 1.41  |
| Do.you.have.Depression.*                      | 8  | 101  | 1.35  | 0.48   | 1       | 1.31  | 0.00  | 1   | 2     | 1    | 0.64     | -1.06 |
| Do.you.have.Anxiety.*                         | 9  | 101  | 1.34  | 0.47   | 1       | 1.30  | 0.00  | 1   | 2     | 1    | 0.68     | -1.55 |
| Do.you.have.Panic.attack.*                    | 10 | 101  | 1.33  | 0.47   | 1       | 1.28  | 0.00  | 1   | 2     | 1    | 0.73     | -1.48 |
| Did.you.seek.any.specialist.for.a.treatment.* | 11 | 101  | 1.06  | 0.24   | 1       | 1.00  | 0.00  | 1   | 2     | 1    | 3.67     | 11.60 |

Timestamp\* Choose.your.gender\* Age What.is.your.course.\* Your.current.year.of.Study\* What.is.your.CGPA.\* Marital.status\* Do.you.have.Depression.\* Do.you.have.Anxiety.\* Do.you.have.Panic.attack.\* Did.you.seek.any.specialist.for.a.treatment.\*

> print(describe(my\_data))