

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 first screenshot shows the RStudio interface with the following console output:

```
> getwd()
[1] "C:/Users/itclab/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 21 Islamic education year 2 3.00 - 3.49
3 8/7/2020 12:05 Male 19 BIT 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 No No No
2 No No No No
3 No No Yes Yes
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 No No No
98 No No Yes No
99 Yes Yes No No
100 No No No No
101 No No No No
```

The second screenshot shows the RStudio interface with the following console output:

```
> 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" "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" "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
```

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The image displays two screenshots of the RStudio interface, showing the execution of R code and the resulting data analysis output.

Top Screenshot:

- Console:** Shows the execution of `summary(my_data)` and `cat("Column Names: ", names(my_data), "\n")`. The output displays the structure of the data frame, including variable names, lengths, and data types.
- Environment:** Lists the loaded data frames: `my_data` (101 obs. of 11 variables) and `Student.Ment...` (101 obs. of 11 variables).
- Files:** Shows the file explorer with various folders and files, including `Custom Office Templates`, `GIS DataBase`, `ISExpress`, `My Web Sites`, `NetBeansProjects`, `Power BI Desktop`, `Virtual Machines`, and `Visual Studio 2022`.

Bottom Screenshot:

- Console:** Shows the execution of `print(describe(my_data))`. The output displays a detailed summary of the data, including means, standard deviations, and other statistical measures for each variable.
- Environment:** Lists the loaded data frames: `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), and `Student.Men...` (101 obs. of 11 variables).
- Files:** Shows the file explorer with various folders and files, including `RDData` (791.4 KB), `Rhistory` (1.2 KB), `Custom Office Templates`, `GIS DataBase`, `ISExpress`, `My Web Sites`, `NetBeansProjects`, `Power BI Desktop`, `Virtual Machines`, and `Visual Studio 2022`.