

SHETH L.U.J AND SIR M.V COLLEGE

Subject: Data Analysis with SAS / SPSS /R

Practical no. 1

Aim: Generating descriptive statistics using summary() or describe() (R)

Outputs→

The screenshot shows the RStudio interface with the following details:

- File Menu:** File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help.
- Code Editor:** An R script titled "S071_Practicalno_1(mod-2).R" containing the following code:

```
21 # 3. DESCRIPTIVE STATISTICS
22 # =====
23
24 print("----- 1. DESCRIPTIVE STATISTICS -----")
25
26 print("Summary of Sales Amount:\n")
27 summary(df$Sales_Amount)
28
29 print("Detailed Description of Quantity Sold:\n")
30 describe(df$Quantity_Sold)
31
32
```
- Console:** An R session window titled "R 4.5.2 · /" showing the execution of the R script. The output includes:

```
> # =====
> # 1. READ THE CSV FILE
> #
> df <- read.csv("sales_data.csv")
> #
> # 2. CREATE A NEW COLUMN
> #
> # Example: If you want to categorize Sales_Amount into High/Low
> df$Sales_Group <- ifelse(df$Sales_Amount > 80, "High", "Low")
> print("----- 1. DESCRIPTIVE STATISTICS -----")
[1] "----- 1. DESCRIPTIVE STATISTICS -----"
> print("Summary of Sales Amount:\n")
[1] "Summary of Sales Amount:\n"
> summary(df$Sales_Amount)
   Min. 1st Qu. Median Mean 3rd Qu. Max.
100.1 2550.3 5019.3 5019.3 7507.4 9989.0
> print("Detailed Description of Quantity Sold:\n")
[1] "Detailed Description of Quantity Sold:\n"
> describe(df$Quantity_Sold)
   vars n mean sd median trimmed mad min max range skew kurtosis se
X1 1 1000 25.36 14.16 25 25.42 17.79 1 49 48 0 -1.21 0.45
```
- Environment Tab:** Shows the global environment with objects like df, df_clean, divorce_df, etc.
- Files Tab:** Shows the file structure of the current directory, including ".RData", "Rhistory", "9_juguar.circ", "Custom Office Templates", "Dell", "Iris - Iris.csv", "My Music", "My Pictures", "My Videos", "NetBeansProjects", and "penguins.csv".
- Bottom Bar:** Includes icons for various applications like Microsoft Word, Excel, and Google Chrome, along with system status indicators like battery level, signal strength, and date/time (14-12-2025, 18:41).