

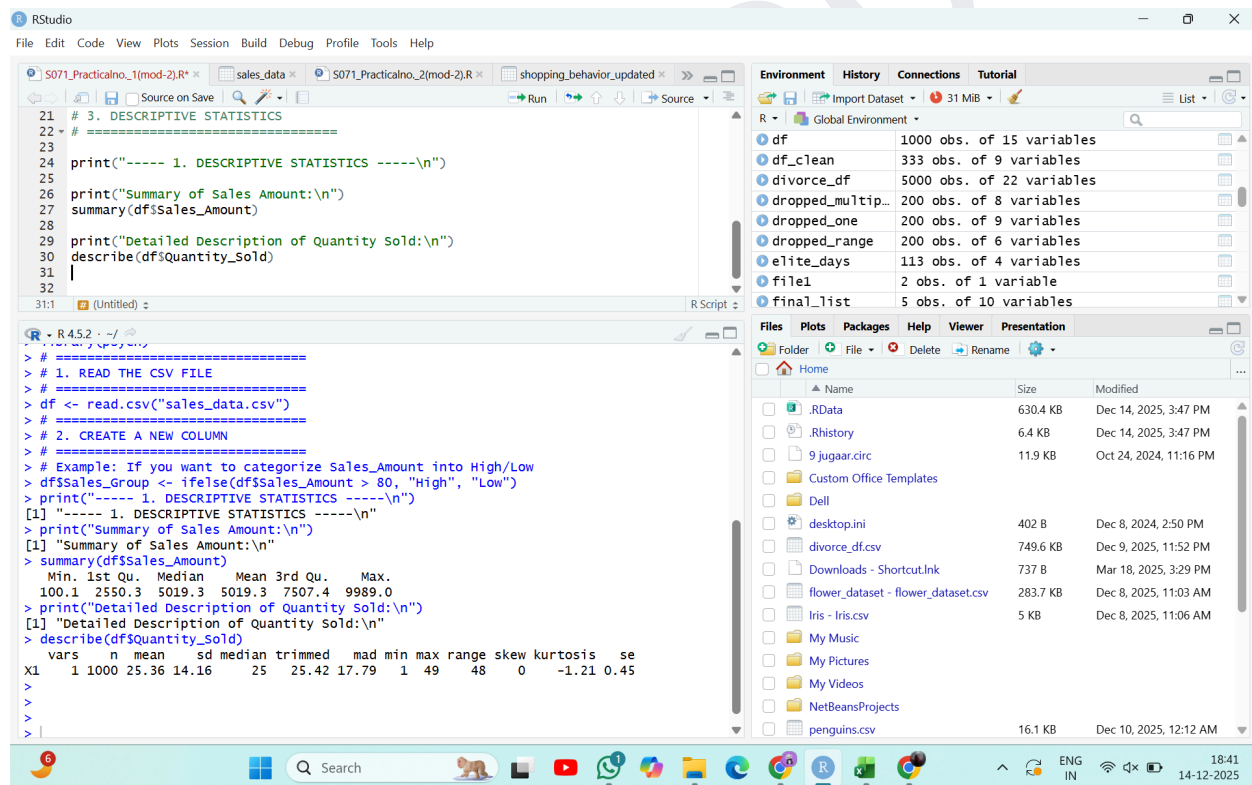
# SHETH L.U.J AND SIR M.V COLLEGE

Subject: Data Analysis with SAS / SPSS /R

## Practical no. 1

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

Outputs→



The screenshot displays the RStudio interface. The script editor on the left contains R code for reading a CSV file, creating a new column, and generating descriptive statistics. The console on the right shows the execution output, including the summary of sales amount and a detailed description of quantity sold.

```
# S071_Practicalno_1(mod-2).R *
# 3. DESCRIPTIVE STATISTICS
# =====
21 # 3. DESCRIPTIVE STATISTICS
22 # =====
23
24 print("----- 1. DESCRIPTIVE STATISTICS -----\\n")
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
```

```
> # =====
> # 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 -----\\n")
> print("Summary of Sales Amount:\\n")
> summary(df$Sales_Amount)
[1] "Summary of Sales Amount:\\n"
> summary(df$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")
> print("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
>
>
>
```