

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:

- Source Panel:** Displays R code for loading libraries, reading a CSV file, creating a new column, and printing descriptive statistics.
- Environment Panel:** Shows the global environment with various objects and their characteristics.
- File Explorer:** Shows the file structure of the current working directory, including files like desktop.ini, Downloads - Shortcut.lnk, flower_dataset - flower_dataset.csv, Iris - Iris.csv, My Music, My Pictures, My Videos, NetBeansProjects, pushpal, pushpal prac, retail_store_sales.csv, sales_data.csv, sales_dataset.csv, sgfdu05m.ini, and Virtual Machines.
- Bottom Bar:** Includes system icons for weather (24°C, Sunny), search, file operations, and system status (ENG IN, 09:28, 09-12-2025).

```
R - RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Source
R 4.5.2 · ~/Desktop
4\dplyr.dll: Permission denied
> # Load libraries
> library(dplyr)

Attaching package: 'dplyr'
The following objects are masked from 'package:stats':
  filter, lag
The following objects are masked from 'package:base':
  intersect, setdiff, setequal, union

> library(psych)
> # =====
> # 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")
> cat("----- 1. DESCRIPTIVE STATISTICS -----\\n")
----- 1. DESCRIPTIVE STATISTICS -----
> cat("Summary of Sales Amount:\\n")
Summary of Sales Amount:
> print(summary(df$sales_Amount))
   Min. 1st Qu. Median Mean 3rd Qu. Max.
100.1 2550.3 5019.3 7507.4 9989.0
> cat("\\nDetailed Description of Quantity Sold:\\n")
Detailed Description of Quantity Sold:
> print(describe(df$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
>
```