

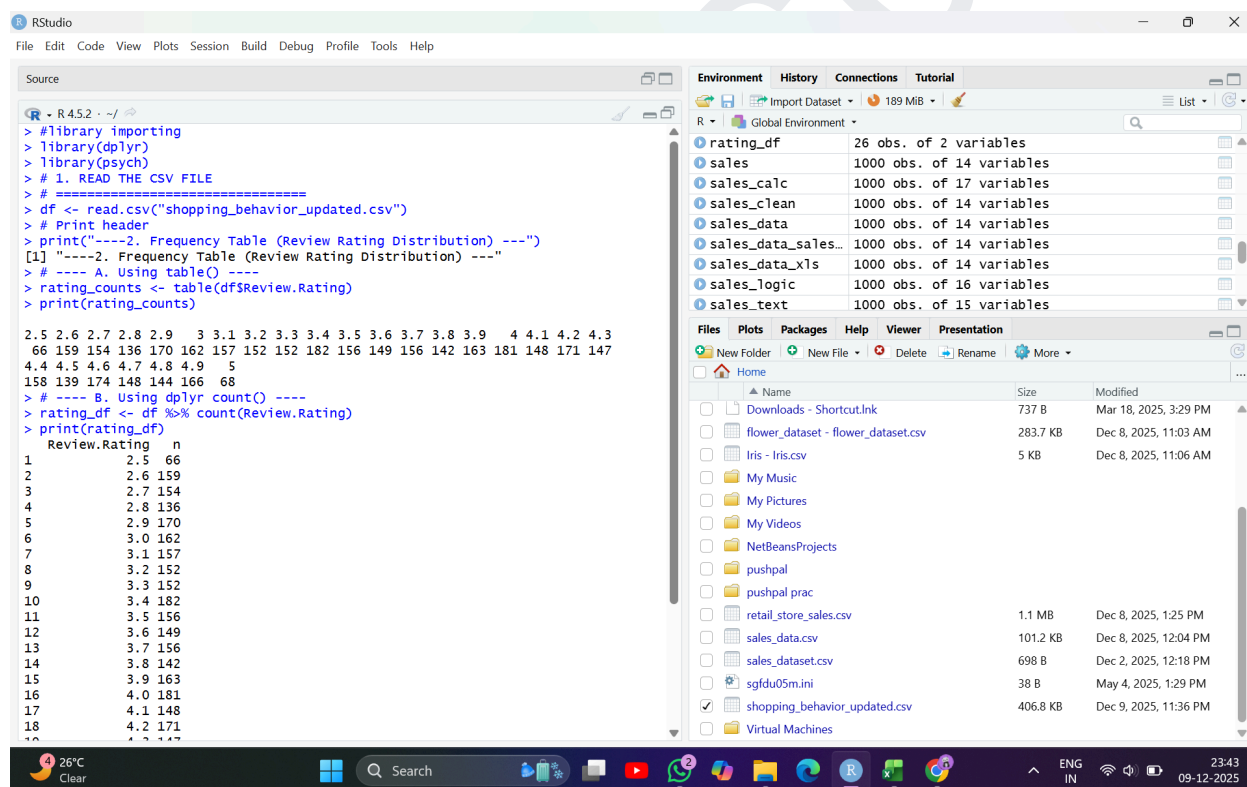
SHETH L.U.J AND SIR M.V COLLEGE

Subject: Data Analysis with SAS / SPSS / R

Practical no. 2

Aim: Generating frequency tables using table() or count() (R)

Outputs→



The screenshot displays the RStudio interface with the following components:

- Source Editor:** Contains R code for loading libraries, reading a CSV file, and generating frequency tables using both `table()` and `dplyr::count()`.
- Environment Pane:** Lists the objects created in the global environment, including `rating_df` (26 obs. of 2 variables) and various sales datasets.
- Files Pane:** Shows the file explorer with the `shopping_behavior_updated.csv` file selected.
- Console:** Displays the output of the R code, including the frequency table for `Review.Rating`.

```
> #library importing
> library(dplyr)
> library(psych)
> # 1. READ THE CSV FILE
> # =====
> df <- read.csv("shopping_behavior_updated.csv")
> # Print header
> print("----2. Frequency Table (Review Rating Distribution) ----")
[1] "----2. Frequency Table (Review Rating Distribution) ----"
> # ---- A. Using table() ----
> rating_counts <- table(df$Review.Rating)
> print(rating_counts)

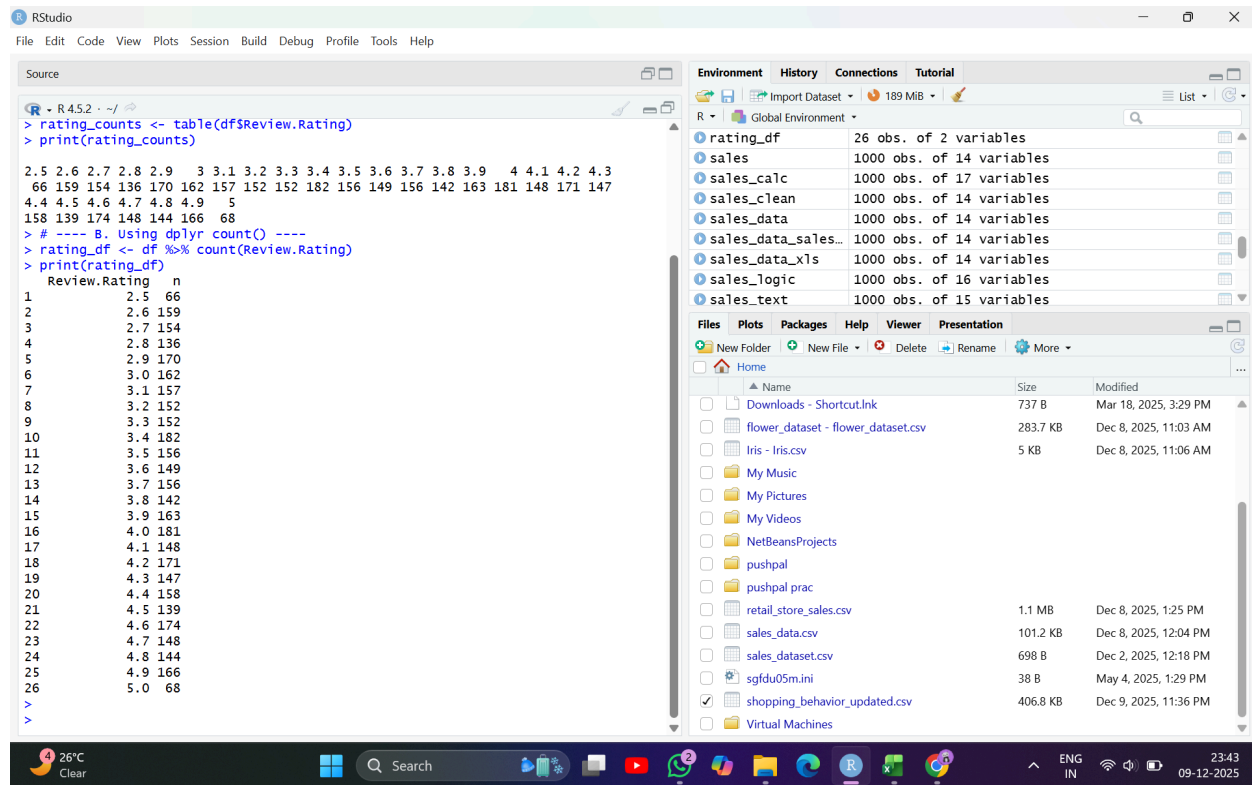
2.5 2.6 2.7 2.8 2.9 3 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4 4.1 4.2 4.3
66 159 154 136 170 162 157 152 152 182 156 149 156 142 163 181 148 171 147
4.4 4.5 4.6 4.7 4.8 4.9 5
158 139 174 148 144 166 68

> # ---- B. Using dplyr count() ----
> rating_df <- df %>% count(Review.Rating)
> print(rating_df)

  Review.Rating     n
1          2.5     66
2          2.6    159
3          2.7    154
4          2.8    136
5          2.9    170
6          3.0    162
7          3.1    157
8          3.2    152
9          3.3    152
10         3.4    182
11         3.5    156
12         3.6    149
13         3.7    156
14         3.8    142
15         3.9    163
16         4.0    181
17         4.1    148
18         4.2    171
19         4.3    147
```

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Subject: Data Analysis with SAS / SPSS /R



The screenshot displays the RStudio environment. The Source pane on the left shows the following R code and its output:

```
R - R4.5.2 - ~/
> rating_counts <- table(df$Review.Rating)
> print(rating_counts)
```

Output:

```
2.5 2.6 2.7 2.8 2.9    3 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9    4 4.1 4.2 4.3
66 159 154 136 170 162 157 152 182 152 149 156 142 163 181 148 171 147
4.4 4.5 4.6 4.7 4.8 4.9    5
158 139 174 148 144 166    68
```

```
> # ---- B. Using dplyr count() ----
> rating_df <- df %>% count(Review.Rating)
> print(rating_df)
```

Output:

```
Review.Rating    n
1          2.5    66
2          2.6   159
3          2.7   154
4          2.8   136
5          2.9   170
6          3.0   162
7          3.1   157
8          3.2   152
9          3.3   152
10         3.4   182
11         3.5   156
12         3.6   149
13         3.7   156
14         3.8   142
15         3.9   163
16         4.0   181
17         4.1   148
18         4.2   171
19         4.3   147
20         4.4   158
21         4.5   139
22         4.6   174
23         4.7   148
24         4.8   144
25         4.9   166
26         5.0    68
```

The Environment pane on the right lists the following objects:

- rating_df: 26 obs. of 2 variables
- sales: 1000 obs. of 14 variables
- sales_calc: 1000 obs. of 17 variables
- sales_clean: 1000 obs. of 14 variables
- sales_data: 1000 obs. of 14 variables
- sales_data_sales...: 1000 obs. of 14 variables
- sales_data_xls: 1000 obs. of 14 variables
- sales_logic: 1000 obs. of 16 variables
- sales_text: 1000 obs. of 15 variables

The Files pane shows the following files in the Home directory:

Name	Size	Modified
Downloads - Shortcut.lnk	737 B	Mar 18, 2025, 3:29 PM
flower_dataset - flower_dataset.csv	283.7 KB	Dec 8, 2025, 11:03 AM
Iris - Iris.csv	5 KB	Dec 8, 2025, 11:06 AM
My Music		
My Pictures		
My Videos		
NetBeansProjects		
pushpal		
pushpal prac		
retail_store_sales.csv	1.1 MB	Dec 8, 2025, 1:25 PM
sales_data.csv	101.2 KB	Dec 8, 2025, 12:04 PM
sales_dataset.csv	698 B	Dec 2, 2025, 12:18 PM
sgfdu05m.ini	38 B	May 4, 2025, 1:29 PM
shopping_behavior_updated.csv	406.8 KB	Dec 9, 2025, 11:36 PM
Virtual Machines		