

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

Aim:- Generating Frequency Tables Using `table()` or `count()` in R

The screenshot shows the RStudio interface with the following details:

- File Menu:** File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help.
- Source Tab:** Contains the R code for reading a CSV file and creating various data frames and tables.
- Console Tab:** Displays the output of the R code, including the structure of the data frames and frequency tables.
- Environment Tab:** Shows the global environment with objects like `high_salary_senior`, `industry_filter`, `jobs`, etc.
- Plots Tab:** Not visible in the screenshot.
- Packages Tab:** Not visible in the screenshot.
- Help Tab:** Not visible in the screenshot.
- Viewer Tab:** Not visible in the screenshot.
- Presentation Tab:** Not visible in the screenshot.
- File Explorer:** Shows the file system structure on the left.
- Project Pane:** Shows the current project is "(None)".

The screenshot shows the RStudio interface. The top menu bar includes File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, and Help. The top toolbar has icons for file operations like Open, Save, and Print, along with a search bar labeled "Go to file/function" and an "Addins" dropdown.

The left pane is the "Console" tab, showing R code and its output. The code prints frequency tables for "Brain weight" and "Total Sleep".

```
> print("Frequency Table: Brain weight")
[1] "Frequency Table: Brain Weight"
> print(brain_weight_counts)

 0.14 0.25 0.3 0.33 0.4 1 1.2 1.9 2.4 2.5 2.6 3 3.5
 [1] 1 1 1 1 2 1 1 1 1 1 1 1
 [3,9] 4 5 5.5 5.7 6.3 6.4 6.6 8.1 10.8 11.4 12.1 12.3
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 [98.2] 115 119.5 157 169 175 179 179.5 180 325 406 419 423
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 [1] 1 1 1 1 1 1 1 1 1 1 1 1

> print("Frequency Table: Total Sleep")
[1] "Frequency Table: Total Sleep"
> print(total_sleep_counts)

 ? 10.3 10.6 10.7 10.8 10.9 11 11.2 12 12.5 12.8 13 13.2 13.3 13.7 13.8
 [1] 4 3 1 2 1 1 1 1 1 3 1 1 2 1 1 1
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 [829] 4.220 1
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 [831] 4.230 1
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 [833] 4.240 1
 [834] 4.2
```

**NAME:- CHETAN MANDAVKAR**  
**ROLL NO. S093**  
**SUBJECT:- Data Analysis With SAS / SPSS / R**

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File Edit Code View Plots Session Build Debug Profile Tools Help  
Console Terminal Background Jobs  
R > R 4.5.2 - ~  
9 0.120 1  
10 0.122 1  
11 0.200 1  
12 0.280 1  
13 0.425 1  
14 0.480 1  
15 0.550 1  
16 0.750 1  
17 0.785 1  
18 0.900 1  
19 0.920 1  
20 1.000 1  
21 1.040 1  
22 1.350 1  
23 1.400 1  
24 1.410 1  
25 1.620 1  
26 1.700 1  
27 2.000 1  
28 2.500 1  
29 3.000 1  
30 3.300 1  
31 3.385 1  
32 3.500 2  
33 3.600 1  
34 4.050 1  
35 4.150 1  
36 4.235 1  
37 4.288 1  
38 6.800 1  
39 10.000 1  
40 10.550 1  
41 14.830 1  
42 27.660 1  
43 35.000 1  
44 36.330 1  
45 52.160 1  
46 55.500 1  
47 60.000 1  
48 62.000 1  
49 85.000 1

Environment History Connections Tutorial  
Import Dataset 91 MiB  
Global Environment  
high\_salary\_senior 336 obs. of 12 variables  
industry\_filter 0 obs. of 12 variables  
jobs 2000 obs. of 12 variables  
low\_occupants\_filter 1386 obs. of 6 variables  
my\_data 3000 obs. of 18 variables  
region\_filter 3278 obs. of 6 variables  
robot\_related 1 obs. of 3 variables  
special\_buildings 3007 obs. of 6 variables  
total\_sleep\_df 45 obs. of 2 variables

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RStudio  
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Console Terminal Background Jobs  
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60 6654.000 1  
> print("Brain weight Frequency (Data Frame Format)")  
[1] "Brain weight Frequency (Data Frame Format)"  
> print(brain\_weight\_df)  
brain\_weight\_df  
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2 0.25 1  
3 0.30 1  
4 0.33 1  
5 0.40 1  
6 1.00 2  
7 1.20 1  
8 1.90 1  
9 2.40 1  
10 2.50 1  
11 2.60 1  
12 3.00 1  
13 3.50 1  
14 3.90 1  
15 4.00 1  
16 5.00 1  
17 5.50 1  
18 5.70 1  
19 6.30 1  
20 6.40 1  
21 6.60 1  
22 8.10 1  
23 10.80 1  
24 11.40 1  
25 12.40 1  
26 12.30 2  
27 12.50 1  
28 15.50 1  
29 17.00 1  
30 17.50 1  
31 21.00 1  
32 25.00 1  
33 25.60 1  
34 39.20 1  
35 44.50 1

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