

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

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

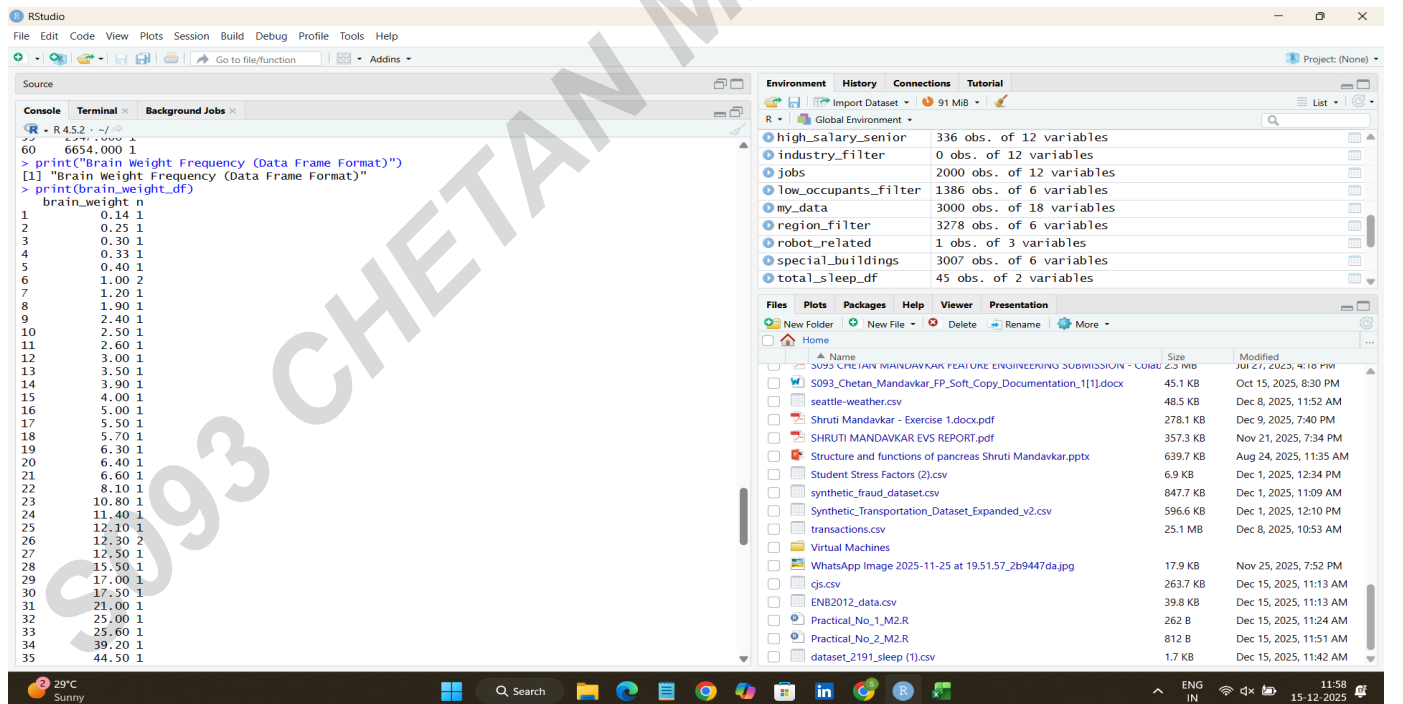
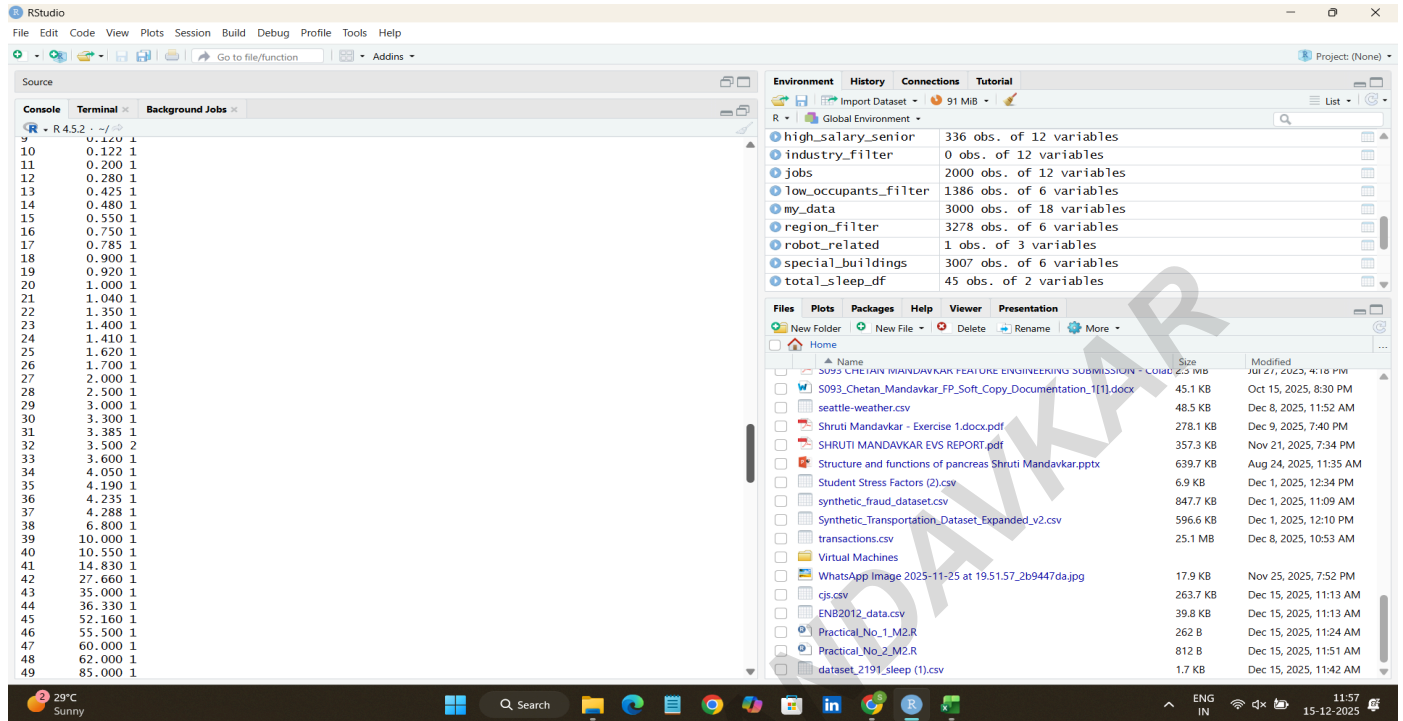
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RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function Addins
Source
Console Terminal Background Jobs
R - R4.5.2 - ~/
> library(dplyr)
> df <- read.csv("dataset_2191_sleep (1).csv")
> str(df)
'data.frame': 62 obs. of 8 variables:
 $ body_weight      : num  6654 1 3.38 0.92 2547 ...
 $ brain_weight     : num  5712 6.6 44.5 5.7 4603 ...
 $ max_life_span    : chr  "38.6" "4.5" "14" "?" ...
 $ gestation_time   : chr  "645" "42" "60" "25" ...
 $ predation_index  : int  3 3 1 5 3 4 1 4 1 1 ...
 $ sleep_exposure_index: int  5 1 1 2 5 4 1 5 2 1 ...
 $ danger_index     : int  3 3 1 3 4 4 1 4 1 1 ...
 $ total_sleep      : chr  "3.3" "8.3" "12.5" "16.5" ...
> colnames(df)
[1] "body_weight"      "brain_weight"      "max_life_span"
[4] "gestation_time"  "predation_index"  "s_sleep_exposure_index"
[7] "danger_index"     "total_sleep"
> body_weight_counts <- table(df$body_weight)
> brain_weight_counts <- table(df$brain_weight)
> total_sleep_counts <- table(df$total_sleep)
> print("Frequency Table: Body Weight")
[1] "Frequency Table: Body Weight"
> print(body_weight_counts)
0.005 0.01 0.023 0.048 0.06 0.075 0.101 0.104 0.12 0.122 0.2 0.28 0.425
1 1 1 1 1 1 1 1 1 1 1 1 1
0.48 0.55 0.75 0.785 0.9 0.92 1 1.04 1.35 1.4 1.41 1.62 1.7
2 2.5 3 3.3 3.385 3.5 3.6 4.05 4.19 4.235 4.288 6.8 10
1 1 1 1 1 2 1 1 1 1 1 1 1
10.55 14.83 27.66 35 36.33 52.16 55.5 60 62 85 100 160 187.1
1 1 1 1 1 1 1 1 1 1 1 1 1
192 207 250 465 521 529 2547 6654
1 1 1 1 1 1 1 1
> 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 1 2 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
1 1 1 1 1 1 1 1 1 1 1 1 1
12.5 15.5 17 17.5 21 25 25.6 39.2 44.5 50.4 56 58 81
1 1 1 1 1 1 1 1 1 1 1 1 1
98.2 115 119.5 157 169 175 179 179.5 180 325 406 419 423
1 2 1 1 1 1 1 1 1 1 1 1 1
440 490 655 680 1320 4603 5712
1 1 1 1 1 1 1 1
> print("Frequency Table: Total Sleep")
[1] "Frequency Table: Total Sleep"
> print(total_sleep_counts)
7 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
4 3 1 2 1 1 1 1 1 1 3 1 1 2 1 1 1
14.4 14.5 15.8 16.5 17 17.4 18.1 19.4 19.7 19.9 2.6 2.9 3.1 3.3 3.8 3.9
1 1 1 1 1 1 1 2 1 1 1 1 1 2 2
5.4 6.1 6.2 6.6 8 8.2 8.3 8.4 8.6 9.1 9.6 9.7 9.8
2 1 2 1 1 1 3 1 1 1 1 2
> body_weight_df <- df %>% count(body_weight)
> brain_weight_df <- df %>% count(brain_weight)
> total_sleep_df <- df %>% count(total_sleep)
> print("Body Weight Frequency (Data Frame Format)")
[1] "Body Weight Frequency (Data Frame Format)"
> print(body_weight_df)
body_weight n
1 0.005 1
2 0.010 1
3 0.023 2
4 0.048 1
5 0.060 1
6 0.075 1
7 0.101 1
8 0.104 1
9 0.120 1
10 0.122 1
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ROLL NO. S093

SUBJECT:- Data Analysis With SAS / SPSS / R

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