

# SHETH L.U.J. & SIR M.V. COLLEGE OF SCIENCE

## SUBJECT - Data Analysis with SAS / SPSS / R

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

Output :-

The screenshot displays the RStudio environment. The script editor contains the following R code:

```
54 # Sorted frequency tables for better readability
55 print("=== Hair Color Frequency (Descending) ===")
56 print(hair_df %>% arrange(desc(n)))
57
58 print("=== Eye Color Frequency (Descending) ===")
59 print(eye_df %>% arrange(desc(n)))
60
61 print("=== Sex Frequency (Descending) ===")
62 print(sex_df %>% arrange(desc(n)))
63
```

The console shows the output of the code:

```
> library(dplyr)
> # Convert HairEyeColor table to a data frame
> df <- as.data.frame(HairEyeColor)
> # Inspect the dataset
> print("=== STRUCTURE OF THE DATASET ===")
[1] "=== STRUCTURE OF THE DATASET ==="
> str(df)
'data.frame':  32 obs. of  4 variables:
 $ Hair: Factor w/ 4 levels "Black","Brown",...: 1 2 3 4 1 2 3 4 1 2 ...
 $ Eye : Factor w/ 4 levels "Brown","Blue",...: 1 1 1 1 2 2 2 3 3 ...
 $ Sex : Factor w/ 2 levels "Male","Female": 1 1 1 1 1 1 1 1 1 1 ...
 $ Freq: num  32 53 10 3 11 50 10 30 10 25 ...
> print("=== COLUMN NAMES ===")
[1] "=== COLUMN NAMES ==="
> colnames(df)
[1] "Hair" "Eye" "Sex" "Freq"
> print("=== FIRST 10 ROWS ===")
[1] "=== FIRST 10 ROWS ==="
> print(head(df, 10))
```

The Environment pane on the right shows the following objects:

- hair\_eye\_sex\_df: 32 obs. of 4 variables
- high\_bill\_subset: 32 obs. of 7 variables
- iris: 150 obs. of 5 variables
- iris\_setosa: 50 obs. of 5 variables
- iris\_versicolor: 50 obs. of 5 variables
- large\_group\_target: 19 obs. of 7 variables
- latest\_2025\_movie: 10000 obs. of 8 variables

The Packages pane shows the installed packages:

Package	Source	Version
askpass	https://cran.rstudio.com	1.2.1
backports	https://cran.rstudio.com	1.5.0
base64enc	https://cran.rstudio.com	0.1-3
bit	https://cran.rstudio.com	4.6.0
bit64	https://cran.rstudio.com	4.6.0-1
blob	https://cran.rstudio.com	1.2.4
broom	https://cran.rstudio.com	1.0.11
bslib	https://cran.rstudio.com	0.9.0
cachem	https://cran.rstudio.com	1.1.0
callr	https://cran.rstudio.com	3.7.6
cellranger	https://cran.rstudio.com	1.1.0
cli	https://cran.rstudio.com	3.6.5
clipr	https://cran.rstudio.com	0.8.0

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