

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 shows an RStudio interface with the following details:

- File Menu:** File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help.
- Addins:** Go to/function, Addins dropdown.
- Source:** Source tab selected.
- Console:** R 4.5.2 - ~/
- Code Content:**

```
> # =====
> # 2. Frequency Tables
> # =====
> print("---- 2. Frequency Tables (Crypto Dataset) ---")
[1] "---- 2. Frequency Tables (Crypto Dataset) ---"
> # A. Using Base R table()
> print("Frequency Table: Asset")
[1] "Frequency Table: Asset"
> asset_counts <- table(crypto$asset)
> print(asset_counts)
```

Asset	Count
Bitcoin	8687
Bonk	3778
Dogecoin	9046
Dogwifhat	3294
Ethereum	8784
Near Protocol	5565
Pepe	7657
Render	3054
Shiba Inu	3003
Solana	3450
XRP	8883

```
> print("Frequency Table: Symbol")
[1] "Frequency Table: Symbol"
> symbol_counts <- table(crypto$symbol)
> print(symbol_counts)
```

Symbol	Count
BONK-USD	3778
BTC-USD	8687
DOGE-USD	9046
ETH-USD	8784
NEAR-USD	5565
PEPE24478-USD	7657
RENDER-USD	3054
SHIB-USD	3003
SOL-USD	3450
WIF-USD	3294
XRP-USD	8883

```
> # =====
> # B. Using dplyr::count()
> # =====
> print("Frequency Table using dplyr::count() - Asset")
[1] "Frequency Table using dplyr::count() - Asset"
> asset_df <- crypto %>% count(asset)
```
- Environment:** Shows objects in the global environment: asset_df, crypto, symbol_. . .
- History:** Shows the history of R commands.
- Connections:** Shows connections.
- Tabs:** Environment, History, Connections, Tab 1.
- File Browser:** Shows the file structure of the current project, including .RData, .Rhistory, Custom Office Templates, Dell, desktop.ini, My Music, My Videos, NetBeansProjects, Shortcut to Documents (OneDrive - Pe 1.kt), earthquake.csv, and crypto.csv.
- Bottom Bar:** Search bar, system icons (32°C, ENG IN, battery, signal), and date (10/20/2023).

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The screenshot shows an RStudio interface with the following details:

- File Edit Code View Plots Session Build Debug Profile Tools Help**
- Addins** dropdown menu open.
- Source** tab selected.
- Console** tab active, showing R code and its output.
- Background Jobs** tab visible.
- R 4.5.2** environment.
- Global Environment** pane on the right.
- Data** section displays objects: `asset_df`, `crypto`, and `symbol_df`.
- Values** section displays the structure of `asset_c...`.
- Files** pane lists files: `.RData`, `Rhistory`, `Custom Office Templates`, `Dell`, `desktop.ini`, `My Music`, `My Videos`, `NetBeansProjects`, `Shortcut to Documents (OneDrive - Pe...`, `earthquake.csv`, and `crypto.csv`.
- Plots**, **Packages**, **Help**, and **Viewer** tabs are present in the top navigation bar.
- System tray** at the bottom shows battery level (32°C, Sunny), network status (ENG), and system icons.

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RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

S108-R-PROGRAM PRAC2 M-2.R asset_df crypto symbol_df Filter

Data

asset	n
1 Bitcoin	8687
2 Bonk	3778
3 Dogecoin	9046
4 Dogwifhat	3294
5 Ethereum	8784
6 Near Protocol	5565
7 Pepe	7657
8 Render	3054
9 Shiba Inu	3003
10 Solana	3450
11 XRP	8883

Showing 1 to 11 of 11 entries, 2 total columns

Console Terminal Background Jobs

```
R > R 4.5.2 · ~/ 
10 WIF-USD 3294
11 XRP-USD 8883
> View(asset_df)
> View(crypto)
> View(symbol_df)
```

32°C Sunny

Project: (None)

Environment History Connections Tutorial

R Global Environment

Data

- asset_df 11 obs. of 2 variables
- crypto 65201 obs. of 8 variables
- symbol... 11 obs. of 2 variables

Values

- asset_c... 'table' int [1:11(1d...]
- symbol_... 'table' int [1:11(1d...]

Files Plots Packages Help Viewer

Home

- Name Size
- .RData 1.5 M
- .Rhistory 3.7 KI
- Custom Office Templates
- Dell
- desktop.ini 418 B
- My Music
- My Videos
- NetBeansProjects
- Shortcut to Documents (OneDrive - Pe 1.7 KI
- earthquake.csv 15.4 I
- crypto.csv 5.9 M

ENG IN 16:41 10-12-2025

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

S108-R-PROGRAM PRAC2 M-2.R asset_df crypto symbol_df Filter

Data

symbol	n
1 BONK-USD	3778
2 BTC-USD	8687
3 DOGE-USD	9046
4 ETH-USD	8784
5 NEAR-USD	5565
6 PEP24478-USD	7657
7 RENDER-USD	3054
8 SHIB-USD	3003
9 SOL-USD	3450
10 WIF-USD	3294
11 XRP-USD	8883

Showing 1 to 11 of 11 entries, 2 total columns

Console Terminal Background Jobs

```
R > R 4.5.2 · ~/ 
10 WIF-USD 3294
11 XRP-USD 8883
> View(asset_df)
> View(crypto)
> View(symbol_df)
```

32°C Sunny

Project: (None)

Environment History Connections Tutorial

R Global Environment

Data

- asset_df 11 obs. of 2 variables
- crypto 65201 obs. of 8 variables
- symbol... 11 obs. of 2 variables

Values

- asset_c... 'table' int [1:11(1d...]
- symbol_... 'table' int [1:11(1d...]

Files Plots Packages Help Viewer

Home

- Name Size
- .RData 1.5 M
- .Rhistory 3.7 KI
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- desktop.ini 418 B
- My Music
- My Videos
- NetBeansProjects
- Shortcut to Documents (OneDrive - Pe 1.7 KI
- earthquake.csv 15.4 I
- crypto.csv 5.9 M

ENG IN 16:42 10-12-2025

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The screenshot shows the RStudio interface with the following details:

- File Menu:** File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help.
- Project:** Project: (None)
- Environment Tab:** Shows objects in the Global Environment: asset_df (11 obs. of 2 variables), crypto (65201 obs. of 8 variables), symbol_df (11 obs. of 2 variables).
- Data Tab:** Shows the structure of asset_df, crypto, and symbol_df.
- Plots Tab:** Not visible in the screenshot.
- Packages Tab:** Not visible in the screenshot.
- Help Tab:** Not visible in the screenshot.
- Viewer Tab:** Shows a file tree:
 - Home
 - Name
 - RData (1.5 M)
 - Rhistory (3.7 KI)
 - Custom Office Templates
 - Dell
 - desktop.ini (418 B)
 - My Music
 - My Videos
 - NetBeansProjects
 - Shortcut to Documents (OneDrive - Pe) (1.7 KI)
 - earthquake.csv (15.4 I)
 - crypto.csv (5.9 M)
- Console Tab:** Shows the command "asset_c... <- 'table' int [1:11(1d...".
- Bottom Status Bar:** Shows weather (32°C, Sunny), search bar, system icons, and date/time (16:42 IN 10-12-2025).

Table Data (asset_df):

	timestamp	open	high	low	close	volume	asset	symbol
1	2025-12-03 00:00:00+00:00	91345.31	91345.31	91345.31	91345.31	0	Bitcoin	BTC-USD
2	2025-12-03 00:01:00+00:00	91382.49	91382.49	91382.49	91382.49	173711360	Bitcoin	BTC-USD
3	2025-12-03 00:02:00+00:00	91402.97	91402.97	91402.97	91402.97	0	Bitcoin	BTC-USD
4	2025-12-03 00:03:00+00:00	91364.12	91364.12	91364.12	91364.12	17398169	Bitcoin	BTC-USD
5	2025-12-03 00:04:00+00:00	91294.81	91294.81	91294.81	91294.81	0	Bitcoin	BTC-USD
6	2025-12-03 00:06:00+00:00	91271.89	91271.89	91271.89	91271.89	18874368	Bitcoin	BTC-USD
7	2025-12-03 00:08:00+00:00	91269.74	91269.74	91269.74	91269.74	0	Bitcoin	BTC-USD
8	2025-12-03 00:09:00+00:00	91337.03	91337.03	91337.03	91337.03	249634816	Bitcoin	BTC-USD
9	2025-12-03 00:10:00+00:00	91469.75	91469.75	91469.75	91469.75	92094464	Bitcoin	BTC-USD
10	2025-12-03 00:11:00+00:00	91519.54	91519.54	91519.54	91519.54	0	Bitcoin	BTC-USD
11	2025-12-03 00:12:00+00:00	91417.42	91417.42	91417.42	91417.42	568025088	Bitcoin	BTC-USD
12	2025-12-03 00:13:00+00:00	91442.37	91442.37	91442.37	91442.37	0	Bitcoin	BTC-USD
13	2025-12-03 00:15:00+00:00	91362.97	91362.97	91362.97	91362.97	372162560	Bitcoin	BTC-USD
14	2025-12-03 00:16:00+00:00	91401.48	91401.48	91401.48	91401.48	0	Bitcoin	BTC-USD
15	2025-12-03 00:18:00+00:00	91416.20	91416.20	91416.20	91416.20	429400064	Bitcoin	BTC-USD
16	2025-12-03 00:20:00+00:00	91434.91	91434.91	91434.91	91434.91	0	Bitcoin	BTC-USD
17	2025-12-03 00:21:00+00:00	91418.77	91418.77	91418.77	91418.77	19439616	Bitcoin	BTC-USD
18	2025-12-03 00:22:00+00:00	91408.79	91408.79	91408.79	91408.79	12148736	Bitcoin	BTC-USD
19	2025-12-03 00:23:00+00:00	91402.88	91402.88	91402.88	91402.88	0	Bitcoin	BTC-USD

Showing 1 to 20 of 65,201 entries, 8 total columns

