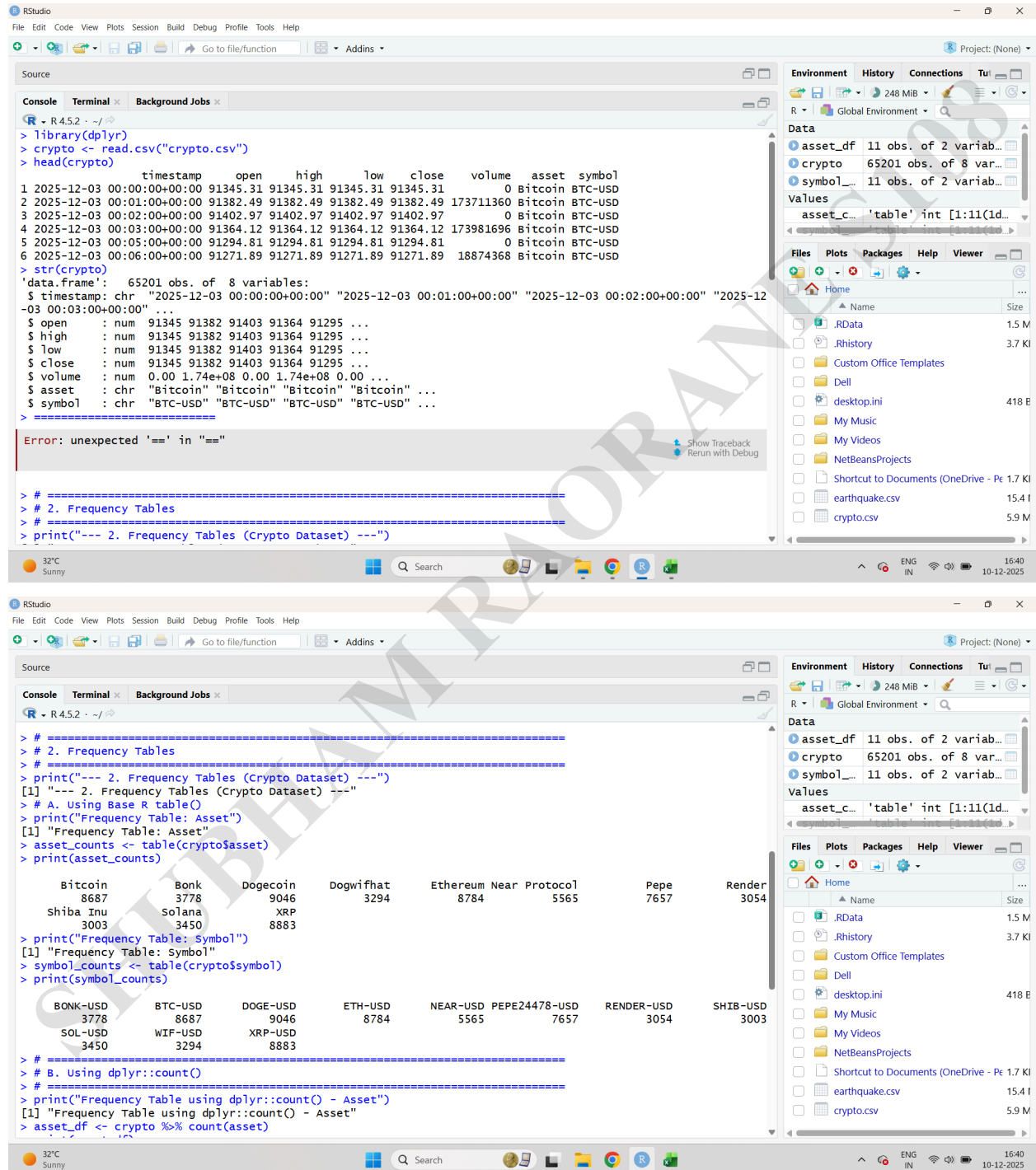


SHETH L.U.J & SIR M.V COLLEGE OF SCIENCE

SUBJECT : Data Analysis with SAS / SPSS /R

AIM : Generating frequency tables using table() or count() (R).

OUTPUT



```
R - R4.5.2 - ~/>
> library(dplyr)
> crypto <- read.csv("crypto.csv")
> head(crypto)

  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 173981696 Bitcoin BTC-USD
5 2025-12-03 00:05:00+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
> str(crypto)
'data.frame':   65201 obs. of  8 variables:
 $ timestamp: chr  "2025-12-03 00:00:00+00:00" "2025-12-03 00:01:00+00:00" "2025-12-03 00:02:00+00:00" "2025-12-03 00:03:00+00:00" ...
 $ open      : num  91345 91382 91403 91364 91295 ...
 $ high      : num  91345 91382 91403 91364 91295 ...
 $ low       : num  91345 91382 91403 91364 91295 ...
 $ close     : num  91345 91382 91403 91364 91295 ...
 $ volume    : num  0.00 1.74e+08 0.00 1.74e+08 0.00 ...
 $ asset     : chr  "Bitcoin" "Bitcoin" "Bitcoin" "Bitcoin" ...
 $ symbol    : chr  "BTC-USD" "BTC-USD" "BTC-USD" "BTC-USD" ...
> #####
> # 2. Frequency Tables
> #####
> print("---- 2. Frequency Tables (Crypto Dataset) ----")

Error: unexpected '=' in "=="
> # =====
> # 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)

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

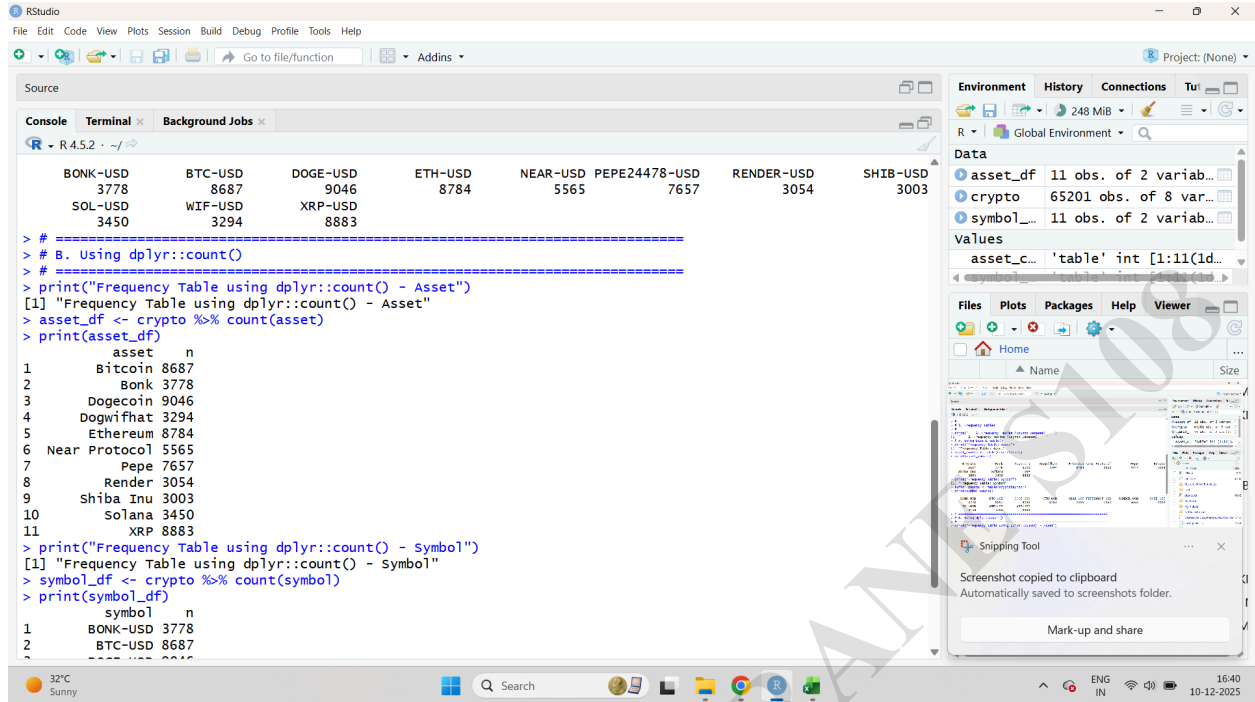
> print("Frequency Table: Symbol")
[1] "Frequency Table: Symbol"
> symbol_counts <- table(crypto$symbol)
> print(symbol_counts)

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

> # =====
> # B. Using dplyr::count()
> #####
> print("Frequency Table using dplyr::count() - Asset")
[1] "Frequency Table using dplyr::count() - Asset"
> asset_df <- crypto %>% count(asset)
```

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SUBJECT : Data Analysis with SAS / SPSS /R



RStudio interface showing R code execution. The console displays the output of the following R code:

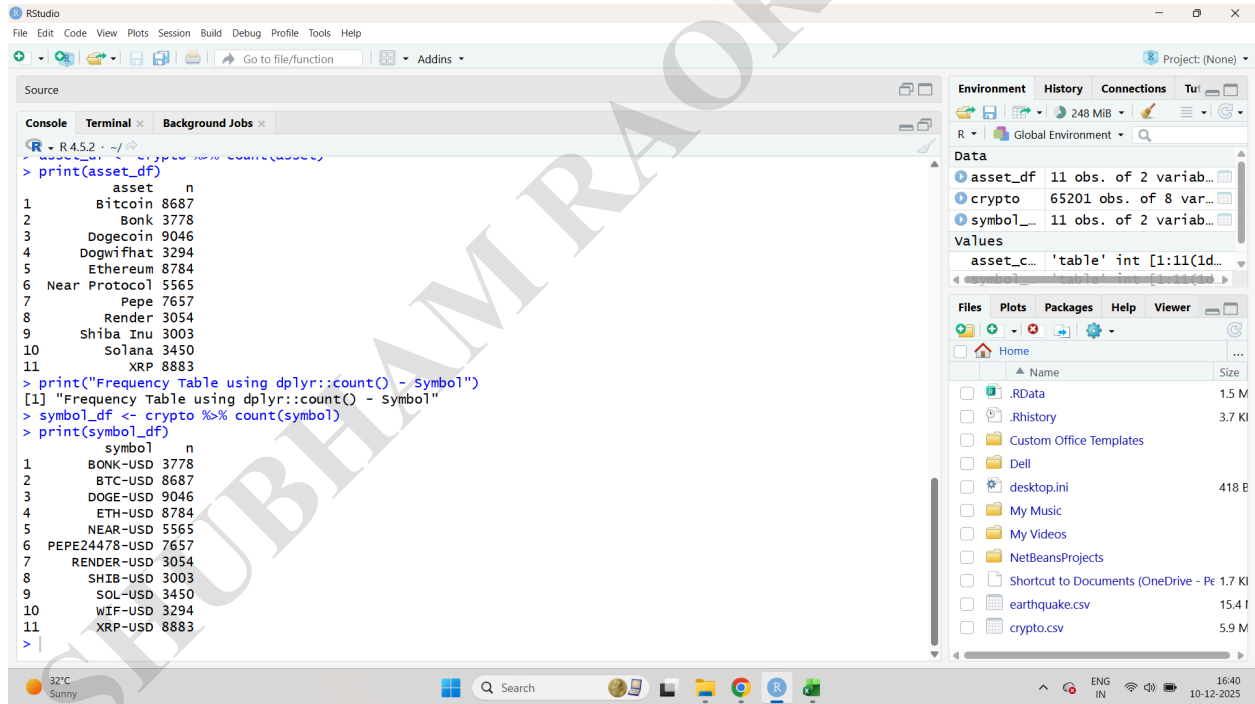
```
> # =====  
> # B. Using dplyr::count()  
> # =====  
> print("Frequency Table using dplyr::count() - Asset")  
[1] "Frequency Table using dplyr::count() - Asset"  
> asset_df <- crypto %>% count(asset)  
> print(asset_df)  
  asset      n  
1  Bitcoin 8687  
2   Bonk   3778  
3 Dogecoin 9046  
4 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  
  
> print("Frequency Table using dplyr::count() - Symbol")  
[1] "Frequency Table using dplyr::count() - Symbol"  
> symbol_df <- crypto %>% count(symbol)  
> print(symbol_df)  
  symbol      n  
1 BONK-USD 3778  
2 BTC-USD  8687
```

The Environment pane on the right shows the following data objects:

- asset_df: 11 obs. of 2 variab...
- crypto: 65201 obs. of 8 var...
- symbol_...: 11 obs. of 2 variab...

A file explorer overlay is visible, showing the following files:

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



RStudio interface showing R code execution. The console displays the output of the following R code:

```
> # =====  
> # B. Using dplyr::count()  
> # =====  
> print("Frequency Table using dplyr::count() - Asset")  
[1] "Frequency Table using dplyr::count() - Asset"  
> asset_df <- crypto %>% count(asset)  
> print(asset_df)  
  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  
  
> print("Frequency Table using dplyr::count() - Symbol")  
[1] "Frequency Table using dplyr::count() - Symbol"  
> symbol_df <- crypto %>% count(symbol)  
> print(symbol_df)  
  symbol      n  
1 BONK-USD 3778  
2 BTC-USD  8687  
3 DOGE-USD 9046  
4 ETH-USD  8784  
5 NEAR-USD 5565  
6 PEPE24478-USD 7657  
7 RENDER-USD 3054  
8 SHIB-USD  3003  
9 SOL-USD   3450  
10 WIF-USD  3294  
11 XRP-USD   8883
```

The Environment pane on the right shows the following data objects:

- asset_df: 11 obs. of 2 variab...
- crypto: 65201 obs. of 8 var...
- symbol_...: 11 obs. of 2 variab...

A file explorer overlay is visible, showing the following files:

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

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SUBJECT : Data Analysis with SAS / SPSS / R

The screenshot shows the RStudio interface with a project named 'S108-R-PROGRAM PRAC2 M-2.R'. The main editor displays a data frame with 11 rows and 2 columns: 'asset' and 'n'. The data is as follows:

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

The console shows the following commands and output:

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

The Environment pane on the right shows the following data objects:

- asset_df: 11 obs. of 2 variab...
- crypto: 65201 obs. of 8 var...
- symbol_...: 11 obs. of 2 variab...

The Files pane on the right shows the following files:

- .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 KI
- crypto.csv: 5.9 M

The screenshot shows the RStudio interface with a project named 'S108-R-PROGRAM PRAC2 M-2.R'. The main editor displays a data frame with 11 rows and 2 columns: 'symbol' and 'n'. The data is as follows:

symbol	n
1 BONK-USD	3778
2 BTC-USD	8687
3 DOGE-USD	9046
4 ETH-USD	8784
5 NEAR-USD	5565
6 PEPE24478-USD	7657
7 RENDER-USD	3054
8 SHIB-USD	3003
9 SOL-USD	3450
10 WIF-USD	3294
11 XRP-USD	8883

The console shows the following commands and output:

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

The Environment pane on the right shows the following data objects:

- asset_df: 11 obs. of 2 variab...
- crypto: 65201 obs. of 8 var...
- symbol_...: 11 obs. of 2 variab...

The Files pane on the right shows the following files:

- .RData: 1.5 M
- .Rhistory: 3.7 KI
- Custom Office Templates
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- My Music
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- Shortcut to Documents (OneDrive - Pe): 1.7 KI
- earthquake.csv: 15.4 KI
- crypto.csv: 5.9 M

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SUBJECT : Data Analysis with SAS / SPSS /R

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

Project: (None)

Environment History Connections

R Global Environment

Data

- asset_df 11 obs. of 2 variab...
- crypto 65201 obs. of 8 var...
- symbol_... 11 obs. of 2 variab...

Values

asset_c... 'table' int [1:11(id...

Files Plots Packages Help Viewer

Home

- .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 f
- crypto.csv 5.9 M

	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	173981696	Bitcoin	BTC-USD
5	2025-12-03 00:05:00+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

Console

32°C Sunny

Search

ENG IN

16:42 10-12-2025

