

Sheth I.u.j. And sir m.v. college of arts science and commerce

Practical no. 2 mod2

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

The screenshot shows the RStudio interface with the following details:

- Source Panel:** Contains the R code used to read the CSV file and display its first 10 rows.

```
R 4.5.2 · ~/RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Source
> library(dplyr)
>
> data2 <- read.csv("Amazon.csv")
>
> head(data2, 10)
#> #> #> #> #> #> #> #> #> #>
#> OrderID OrderDate CustomerID CustomerName ProductID ProductName Category
#> 1 ORD0000001 2023-01-31 CUST001504 Vihaan Sharma P00014 Drone Mini Books
#> 2 ORD0000002 2023-12-30 CUST000178 Pooja Kumar P00040 Microphone Home & Kitchen
#> 3 ORD0000003 2022-05-10 CUST047516 Sneha Singh P00044 Power Bank 20000mAh Clothing
#> 4 ORD0000004 2023-07-18 CUST030059 Vihaan Reddy P00041 Webcam Full HD Home & Kitchen
#> 5 ORD0000005 2023-02-04 CUST048677 Aditya Kapoor P00029 T-Shirt Clothing
#> 6 ORD0000006 2022-12-31 CUST042705 Karan Sharma P00023 Cookware Set Books
#> 7 ORD0000007 2024-09-20 CUST037667 Aarav Verma P00030 Dress Shirt Clothing
#> 8 ORD0000008 2022-11-10 CUST031165 Rohit Kumar P00028 Jeans Toys & Games
#> 9 ORD0000009 2024-06-26 CUST026965 Aman Kapoor P00031 Kids Toy Car Sports & Outdoors
#> 10 ORD0000010 2020-05-01 CUST029472 Aarav Reddy P00001 Wireless Earbuds Clothing
#> #> #> #> #> #> #> #> #> #>
#> Brand Quantity UnitPrice Discount Tax ShippingCost TotalAmount PaymentMethod
#> 1 BrightLux 3 106.59 0.00 0.09 319.86 Debit Card
#> 2 UrbanStyle 1 251.37 0.05 19.10 1.74 259.64 Amazon Pay
#> 3 UrbanStyle 3 35.03 0.10 7.57 5.91 108.06 Debit Card
#> 4 Zenith 5 33.58 0.15 11.42 5.53 159.66 Cash on Delivery
#> 5 KiddoFun 2 515.64 0.25 38.67 9.23 821.36 Credit Card
#> 6 ReadMore 4 449.73 0.00 215.87 2.74 2017.53 UPI
#> 7 UrbanStyle 2 219.81 0.20 28.14 14.97 394.81 UPI
#> 8 KiddoFun 2 306.51 0.05 29.12 6.24 617.73 Debit Card
#> 9 Apex 4 146.09 0.00 46.75 7.03 638.14 Debit Card
#> 10 Apex 2 278.21 0.10 60.09 4.88 565.75 Credit Card
#> #> #> #> #> #> #> #> #> #>
#> OrderStatus City State Country SellerID
#> 1 Delivered Washington DC India SELL01967
#> 2 Delivered Fort Worth TX United States SELL01298
#> 3 Delivered Austin TX United States SELL00908
#> 4 Delivered Charlotte NC India SELL01164
#> 5 Cancelled San Antonio TX Canada SELL01411
#> 6 Delivered Los Angeles CA United States SELL01494
#> 7 Delivered Chicago IL Australia SELL01676
#> 8 Pending Denver CO India SELL00510
#> 9 Delivered Washington DC United States SELL01895
#> 10 Delivered Houston TX United States SELL01581
```
- Environment Panel:** Shows the objects available in the current R environment, including `Amazon`, `data_fu`, `data1`, `data2`, and `spotify`.
- Files Panel:** Shows the current project structure.
- Plots Panel:** Shows a small preview of a plot titled "Screens Automata".

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The screenshot shows the RStudio interface with the following details:

- Header:** RStudio, File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help.
- Source Panel:** Shows R code in the "R 4.5.2 · ~/..." session. The code includes comments and frequency tables for Category, Brand, and PaymentMethod using table() and count() functions.
- Environment Panel (Envir):** Shows the current environment with objects: Arr, da, da, da, sp.
- Data Panel:** Shows data files: data2, data3, data4, data5.
- Files Panel:** Shows a list of files.
- Output Panel:** Shows the resulting frequency tables for each category.

```
> # -----
> # Frequency tables using table()
> # -----
>
> # Frequency of Category
> table(data2$Category)

  Books      Clothing      Electronics      Home & Kitchen      Sports & outdoors 
 16752          16439          16853           16610                  16804

Toys & Games
 16542

> # Frequency of Brand
> table(data2$Brand)

 Apex BrightLux CoreTech FitLife HomeEase KiddoFun NexPro ReadMore UrbanStyle
 9937     9907   10127    10147    9795    10077    9962    10204      9854

Zenith
 9990

> # Frequency of PaymentMethod
> table(data2$PaymentMethod)

 Amazon Pay Cash on Delivery      Credit Card      Debit Card      Net Banking
 15017          4928          35038          20024          9927

UPI
 15066

> # -----
> # Frequency tables using count()
> # -----
>
> count(data2, Category)
  Category n
1       Books 16752
2     Clothing 16439
3 Electronics 16853
```

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The screenshot shows the RStudio interface with the following details:

- Header:** RStudio
- Menu Bar:** File Edit Code View Plots Session Build Debug Profile Tools Help
- Source Editor:** Shows R code execution results:

```
R 4.5.2 · ~/ 
15066
> 
> # -----#
> # Frequency tables using count()
> # -----
>
> count(data2, Category)
      Category     n
1       Books 16752
2    Clothing 16439
3 Electronics 16853
4 Home & Kitchen 16610
5 Sports & Outdoors 16804
6 Toys & Games 16542
> count(data2, Brand)
      Brand     n
1   Apex 9937
2 BrightLux 9907
3 CoreTech 10127
4 FitLife 10147
5 HomeEase 9795
6 KiddoFun 10077
7 NexPro 9962
8 ReadMore 10204
9 UrbanStyle 9854
10 Zenith 9990
> count(data2, PaymentMethod)
      PaymentMethod     n
1 Amazon Pay 15017
2 Cash on Delivery 4928
3 Credit Card 35038
4 Debit Card 20024
5 Net Banking 9927
6 UPI 15066
> print("simran s113")
[1] "simran s113"
> |
```
- Environment Tab:** Shows variables A, C, C, C, S.
- File Tab:** Shows a list of files.