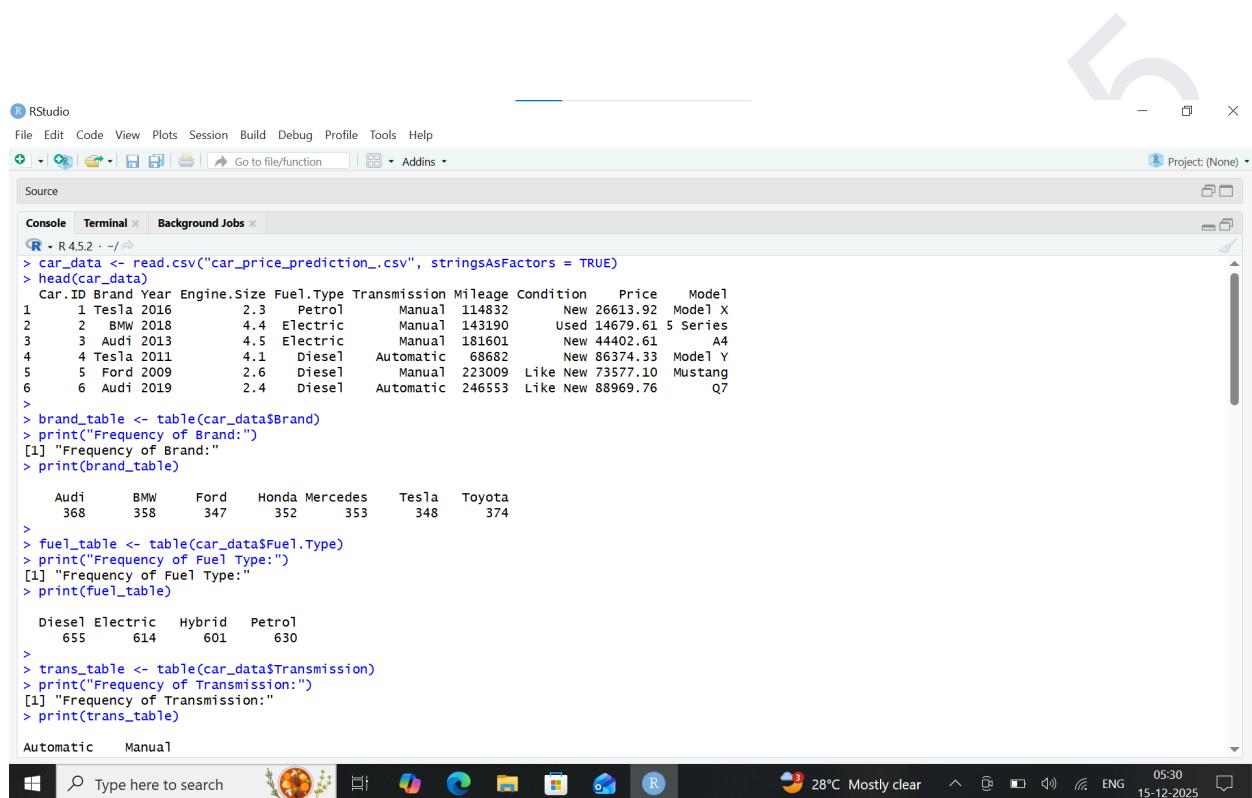


## **Practical No 3 Module II**

**Aim :**Creating cross-tabulations and two-way tables using table() (R)

**Output :**



The screenshot shows the RStudio interface with the following R code in the Console tab:

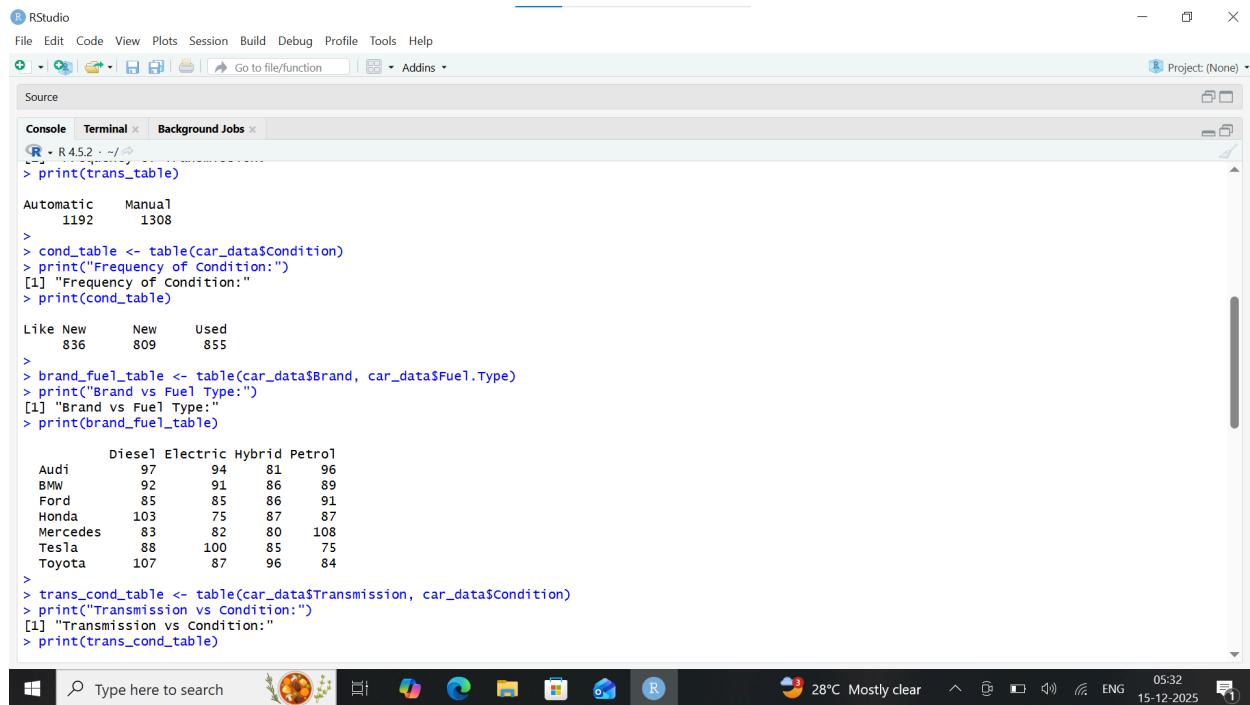
```
R - R 4.5.2 · ~/Documents
File Edit Code View Plots Session Build Debug Profile Tools Help
Source Terminal Background Jobs
[R - R 4.5.2 · ~/Documents]
> car_data <- read.csv("car_price_prediction_.csv", stringsAsFactors = TRUE)
> head(car_data)
  Car.ID Brand Year Engine.Size Fuel.Type Transmission Mileage Condition Price Model
1      1 Tesla 2016       2.3    Petrol     Manual 114832     New 26613.92 Model X
2      2 BMW   2018       4.4   Electric     Manual 143190     Used 14679.61 5 Series
3      3 Audi   2013       4.5   Electric     Manual 181601     New 44402.61 A4
4      4 Tesla 2011       4.1    Diesel   Automatic 68682     New 86374.33 Model Y
5      5 Ford   2009       2.6    Diesel     Manual 223009 Like New 73577.10 Mustang
6      6 Audi   2019       2.4    Diesel   Automatic 246553 Like New 88969.76 Q7
>
> brand_table <- table(car_data$Brand)
> print("Frequency of Brand:")
[1] "Frequency of Brand:"
> print(brand_table)
  Audi BMW Ford Honda Mercedes Tesla Toyota
  368 358 347 352 353 348 374
>
> fuel_table <- table(car_data$Fuel.Type)
> print("Frequency of Fuel Type:")
[1] "Frequency of Fuel Type:"
> print(fuel_table)
  Diesel Electric Hybrid Petrol
  655     614    601   630
>
> trans_table <- table(car_data$Transmission)
> print("Frequency of Transmission:")
[1] "Frequency of Transmission:"
> print(trans_table)
  Automatic Manual

```

The RStudio interface includes a Source tab, a Terminal tab, and a Background Jobs tab. The status bar at the bottom shows the weather (28°C Mostly clear), battery level (ENG), and system time (05:30 15-12-2025).

# SHETH L.U.J. AND SIR M.V. COLLEGE OF ARTS SCIENCE AND COMMERCE

## SUBJECT : R Programming



RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Source

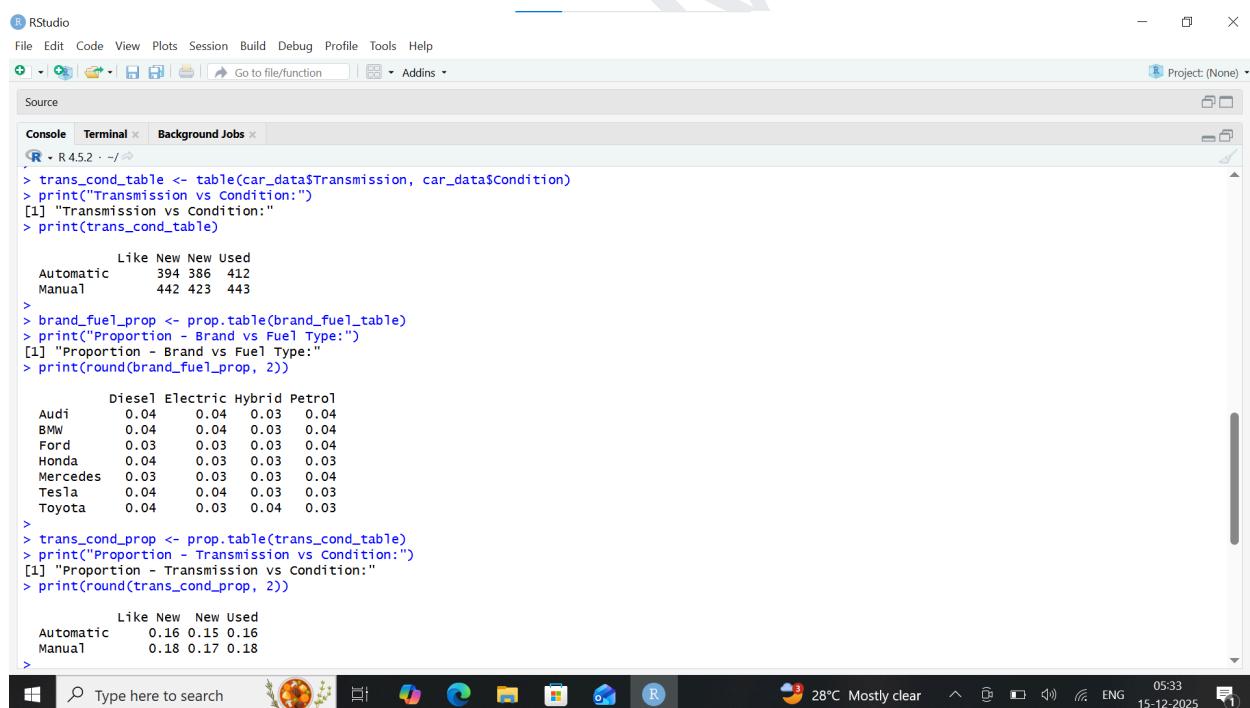
Console Terminal Background Jobs

```
R - R 4.5.2 - ~/Desktop
> print(trans_table)
Automatic Manual
 1192    1308
>
> cond_table <- table(car_data$Condition)
> print("Frequency of Condition:")
[1] "Frequency of Condition:"
> print(cond_table)

Like New New Used
 836    809    855
>
> brand_fuel_table <- table(car_data$Brand, car_data$Fuel.Type)
> print("Brand vs Fuel Type:")
[1] "Brand vs Fuel Type:"
> print(brand_fuel_table)

  Diesel Electric Hybrid Petrol
Audi      97      94     81     96
BMW       92      91     86     89
Ford       85      85     86     91
Honda     103      75     87     87
Mercedes   83      82     80    108
Tesla      88     100     85     75
Toyota     107      87     96     84
>
> trans_cond_table <- table(car_data$Transmission, car_data$Condition)
> print("Transmission vs Condition:")
[1] "Transmission vs Condition:"
> print(trans_cond_table)
```

28°C Mostly clear 05:32 15-12-2025



RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Source

Console Terminal Background Jobs

```
R - R 4.5.2 - ~/Desktop
> trans_cond_table <- table(car_data$Transmission, car_data$Condition)
> print("Transmission vs Condition:")
[1] "Transmission vs Condition:"
> print(trans_cond_table)

  Like New New Used
Automatic  394 386 412
Manual     442 423 443
>
> brand_fuel_prop <- prop.table(brand_fuel_table)
> print("Proportion - Brand vs Fuel Type:")
[1] "Proportion - Brand vs Fuel Type:"
> print(round(brand_fuel_prop, 2))

  Diesel Electric Hybrid Petrol
Audi      0.04      0.04     0.03     0.04
BMW       0.04      0.04     0.03     0.04
Ford       0.03      0.03     0.03     0.04
Honda     0.04      0.03     0.03     0.03
Mercedes   0.03      0.03     0.03     0.04
Tesla      0.04      0.04     0.03     0.03
Toyota     0.04      0.03     0.04     0.03
>
> trans_cond_prop <- prop.table(trans_cond_table)
> print("Proportion - Transmission vs Condition:")
[1] "Proportion - Transmission vs Condition:"
> print(round(trans_cond_prop, 2))

  Like New New Used
Automatic  0.16 0.15 0.16
Manual     0.18 0.17 0.18
```

28°C Mostly clear 05:33 15-12-2025

**SHETH L.U.J. AND SIR M.V. COLLEGE OF ARTS SCIENCE AND COMMERCE**  
**SUBJECT : R Programming**



RStudio  
File Edit Code View Plots Session Build Debug Profile Tools Help  
Go to file/function | Addins | Project: (None)  
Source  
Console Terminal Background Jobs  
R - R4.5.2 · ~/  
[1] Proportion - Transmission vs Condition:  
> print(round(trans\_cond\_prop, 2))  
Like New New Used  
Automatic 0.16 0.15 0.16  
Manual 0.18 0.17 0.18  
>  
> brand\_fuel\_margins <- addmargins(brand\_fuel\_table)  
> print("Brand vs Fuel Type with Totals:")  
[1] "Brand vs Fuel Type with Totals:"  
> print(brand\_fuel\_margins)  

	Diesel	Electric	Hybrid	Petrol	Sum
Audi	97	94	81	96	368
BMW	92	91	86	89	358
Ford	85	85	86	91	347
Honda	103	75	87	87	352
Mercedes	83	82	80	108	353
Tesla	88	100	85	75	348
Toyota	107	87	96	84	374
Sum	655	614	601	630	2500

  
>  
> trans\_cond\_margins <- addmargins(trans\_cond\_table)  
> print("Transmission vs Condition with Totals:")  
[1] "Transmission vs Condition with Totals:"  
> print(trans\_cond\_margins)  
Like New New Used Sum  
Automatic 394 386 412 1192  
Manual 442 423 443 1308  
Sum 836 809 855 2500  
>