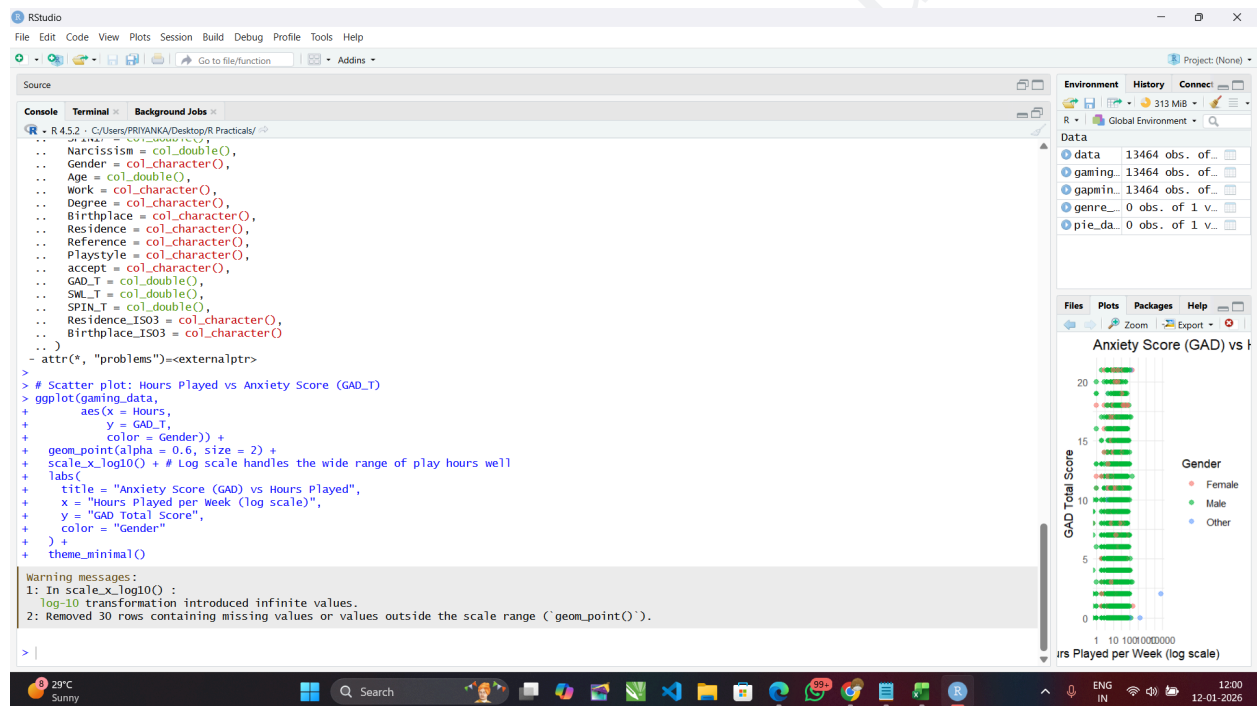


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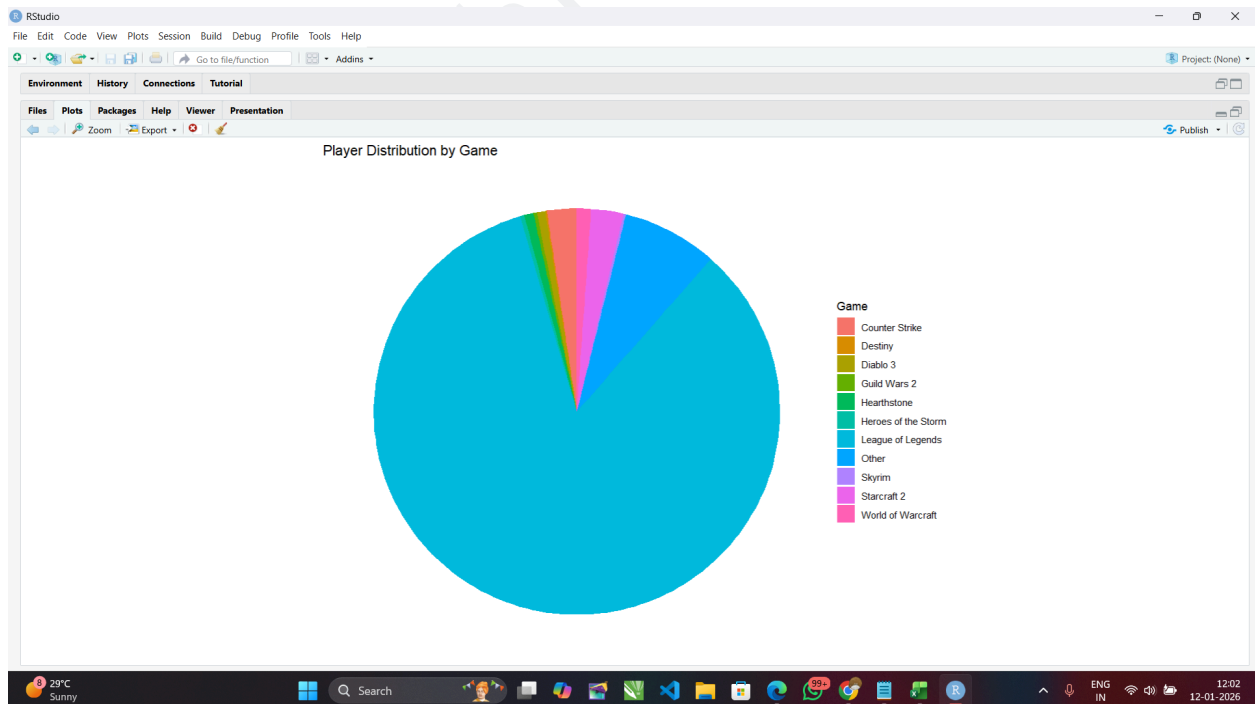
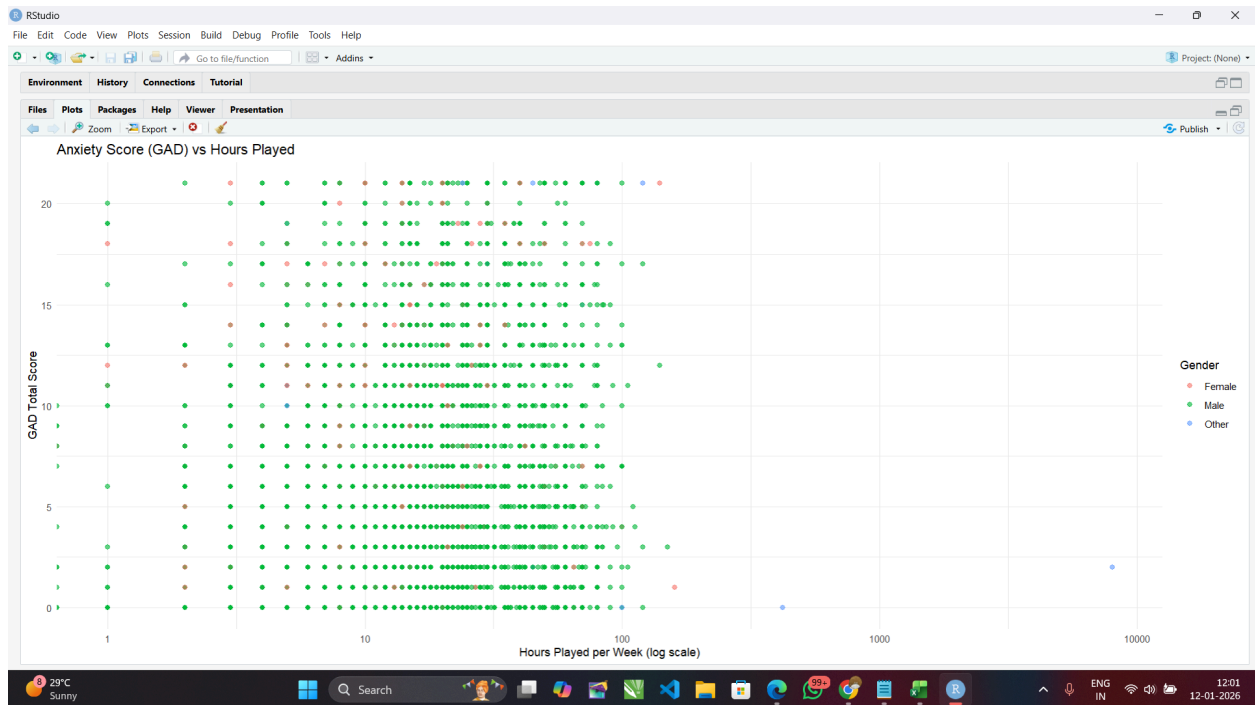
Module 2 Practical 10-12

Aim: Creating graphical reports using ,ggplot2 (R)

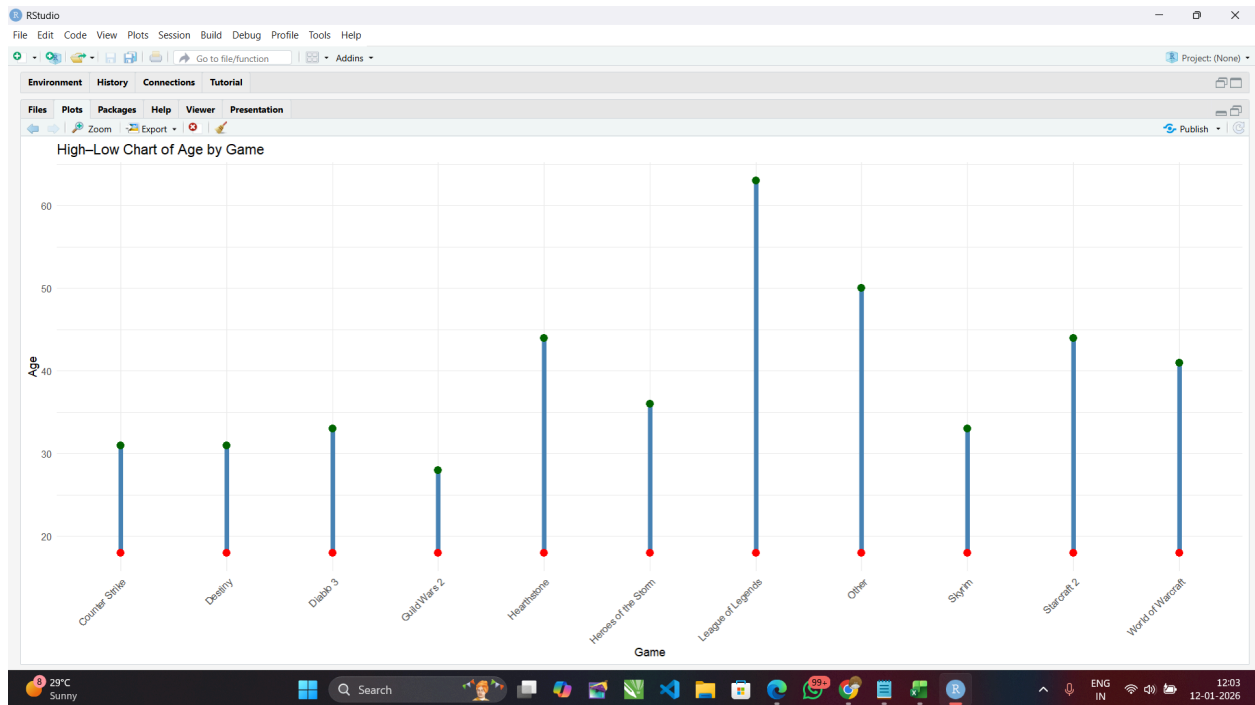
OUTPUT:



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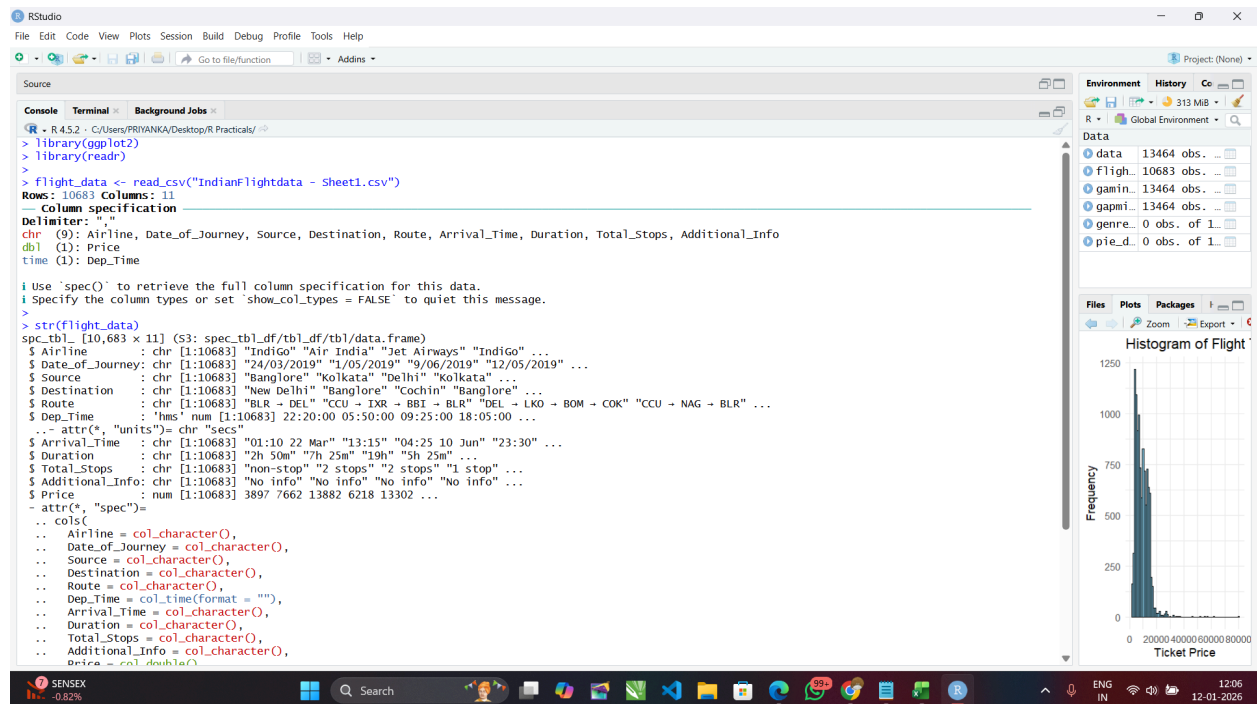
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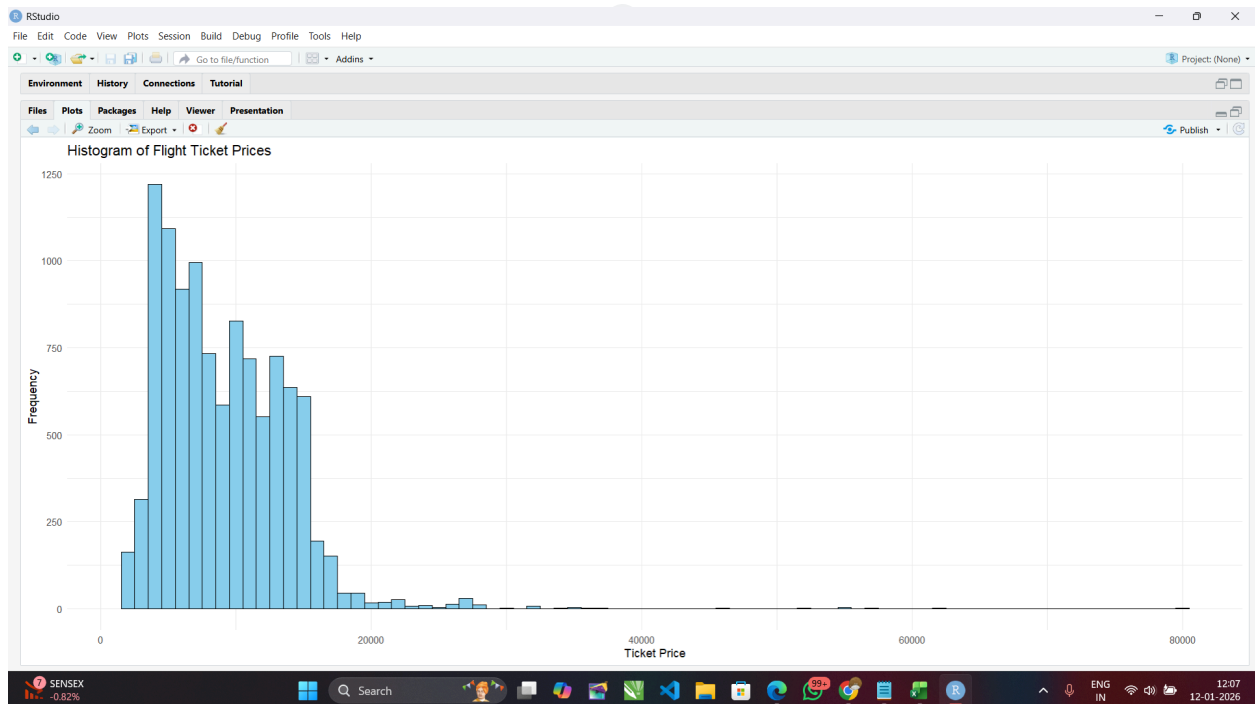
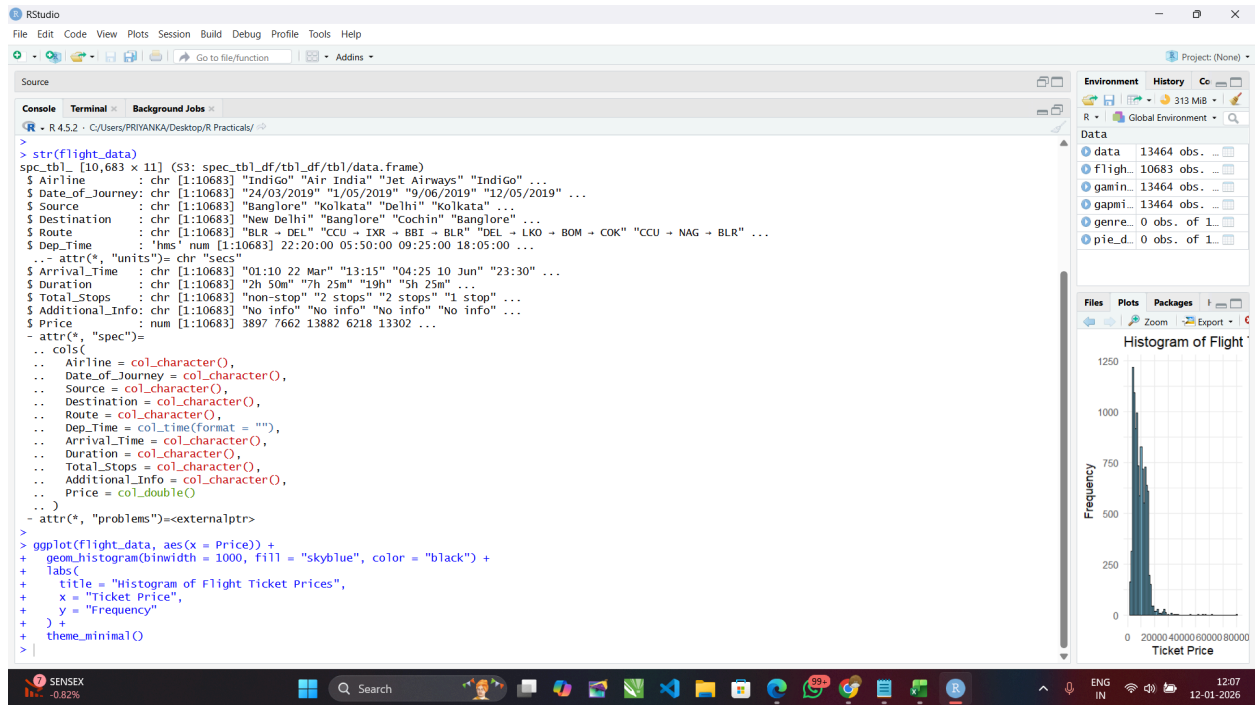
Aim: Generating histograms and box plots using ggplot2 (R).

OUTPUT:

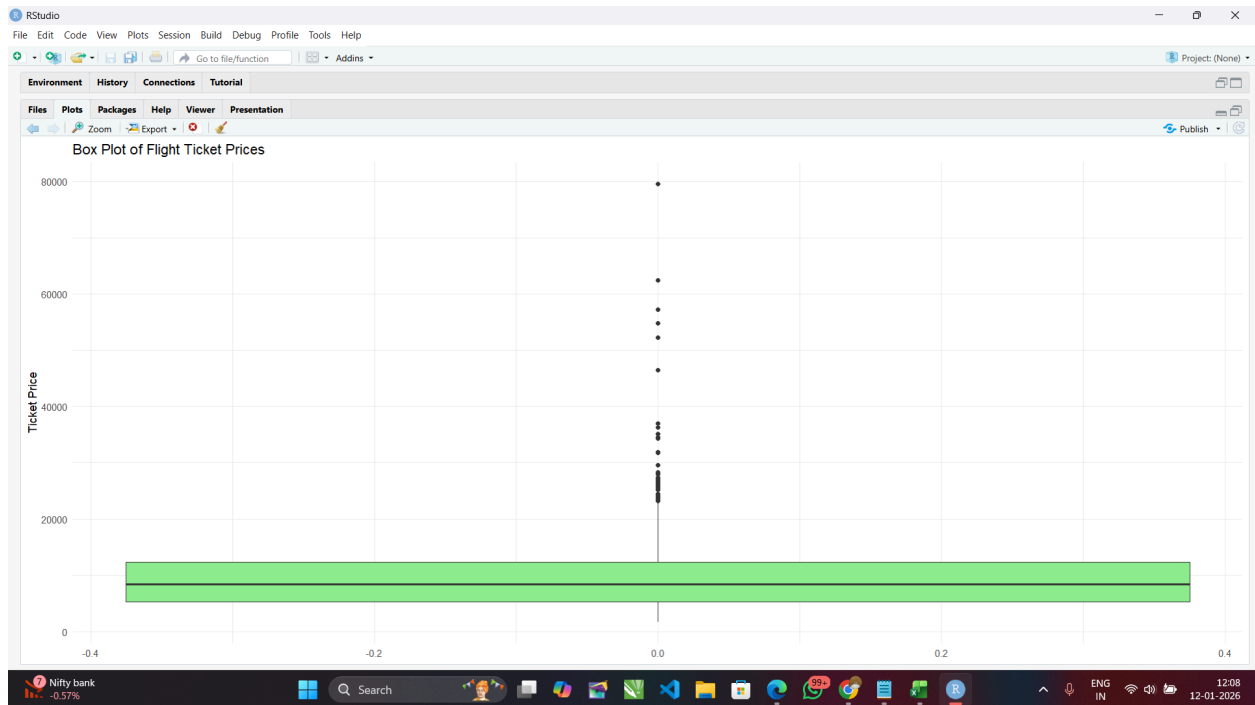


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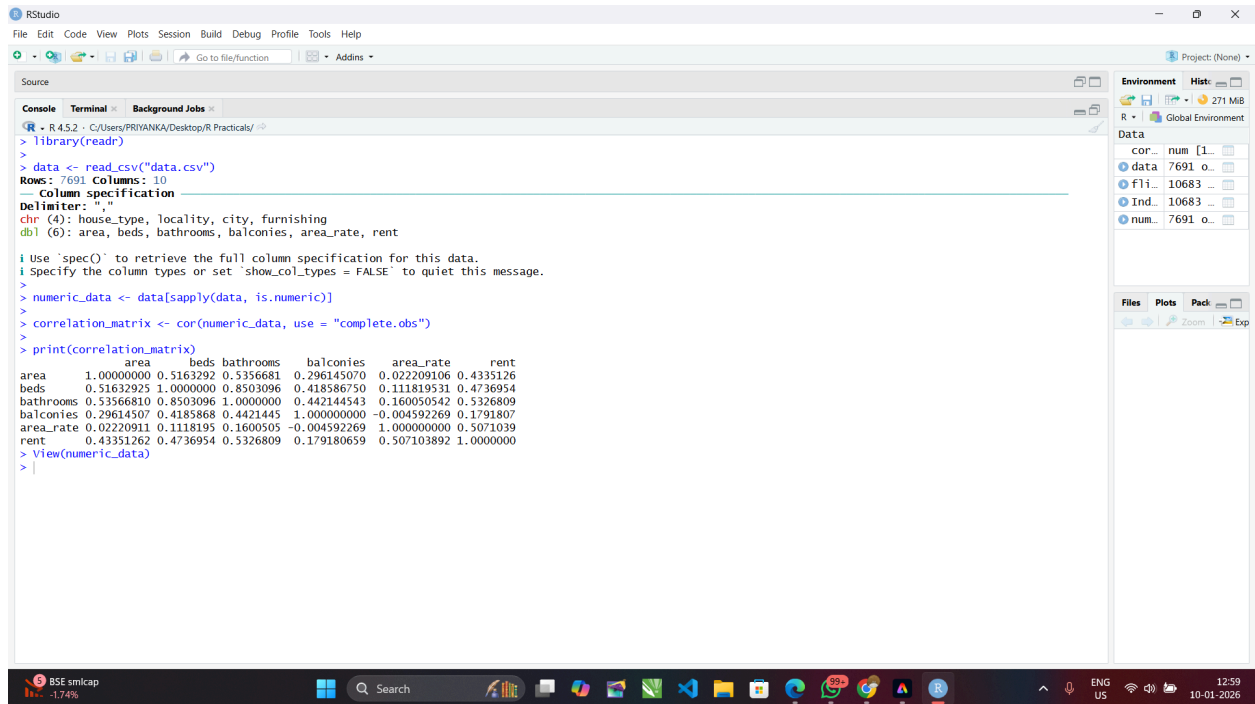
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Aim: Generating correlation matrices using `cor()` (R).

OUTPUT:



The screenshot shows the RStudio interface with the following content:

```
R - R 4.5.2 - C:/Users/PRIVANKA/Desktop/R Practicals/
File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function Addins

Source
Console Terminal Background Jobs
> library(readr)
> data <- read_csv("data.csv")
Rows: 7691 Columns: 10
Column specification
Delimiter: ','
chr (4): house_type, locality, city, furnishing
dbl (6): area, beds, bathrooms, balconies, area_rate, rent

! Use 'spec()' to retrieve the full column specification for this data.
! Specify the column types or set 'show_col_types = FALSE' to quiet this message.
> numeric_data <- data[sapply(data, is.numeric)]
> correlation_matrix <- cor(numeric_data, use = "complete.obs")
> print(correlation_matrix)
      area      beds bathrooms balconies area_rate rent
area  1.0000000 0.5163292 0.5356681 0.296145070 0.022209106 0.4335126
beds   0.5163292 1.0000000 0.8503096 0.418586750 0.111819531 0.4736954
bathrooms 0.5356681 0.8503096 1.0000000 0.442144543 0.160050542 0.5326809
balconies 0.29614507 0.4185868 0.4421445 1.000000000 -0.004592269 0.1791807
area_rate 0.02220911 0.1118195 0.1600505 -0.004592269 1.000000000 0.5071039
rent     0.43351262 0.4736954 0.5326809 0.179180659 0.507103892 1.0000000
> View(numeric_data)
> |

Environment: Global Environment
Data: cor... num [1...], data 7691 o..., fli... 10683 ..., Ind... 10683 ..., num... 7691 o...
Files Plots Pack Zoom Exp
```

The console output shows the successful execution of the R code to read a CSV file, filter for numeric data, and calculate a correlation matrix. The resulting matrix is printed, showing correlations between area, beds, bathrooms, balconies, area_rate, and rent. The RStudio interface also shows the 'Data' pane with the objects created and the Windows taskbar at the bottom.