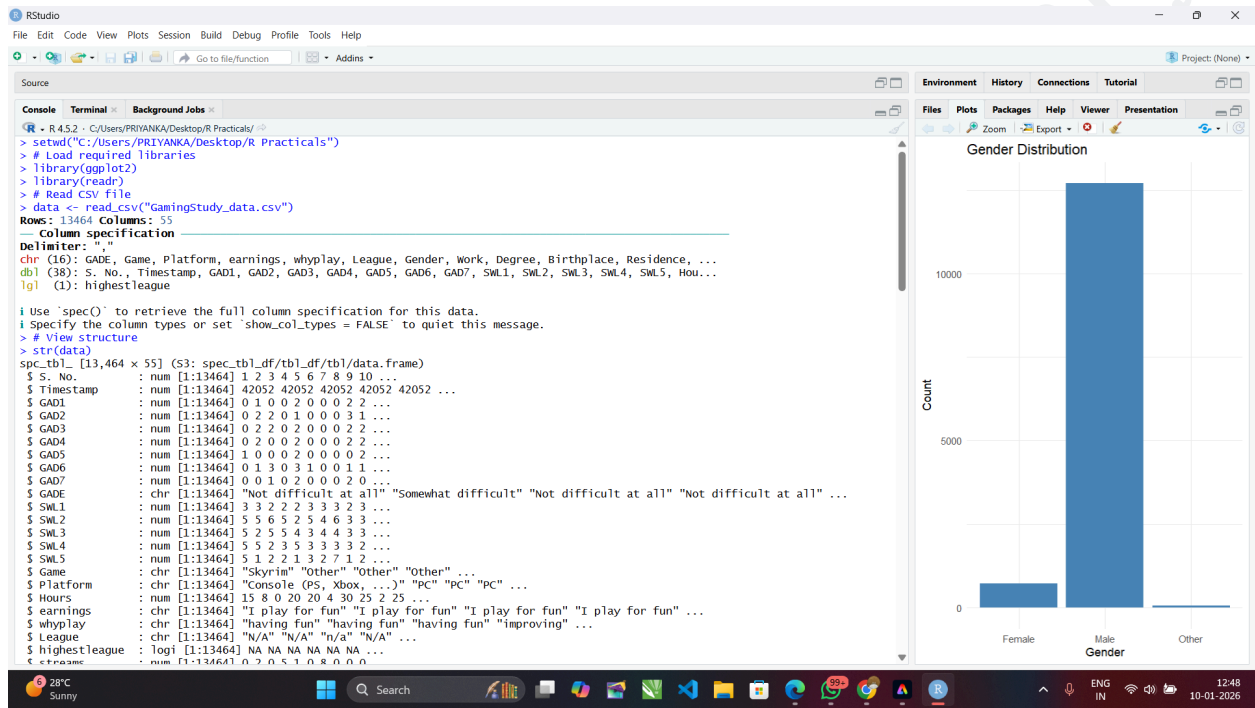


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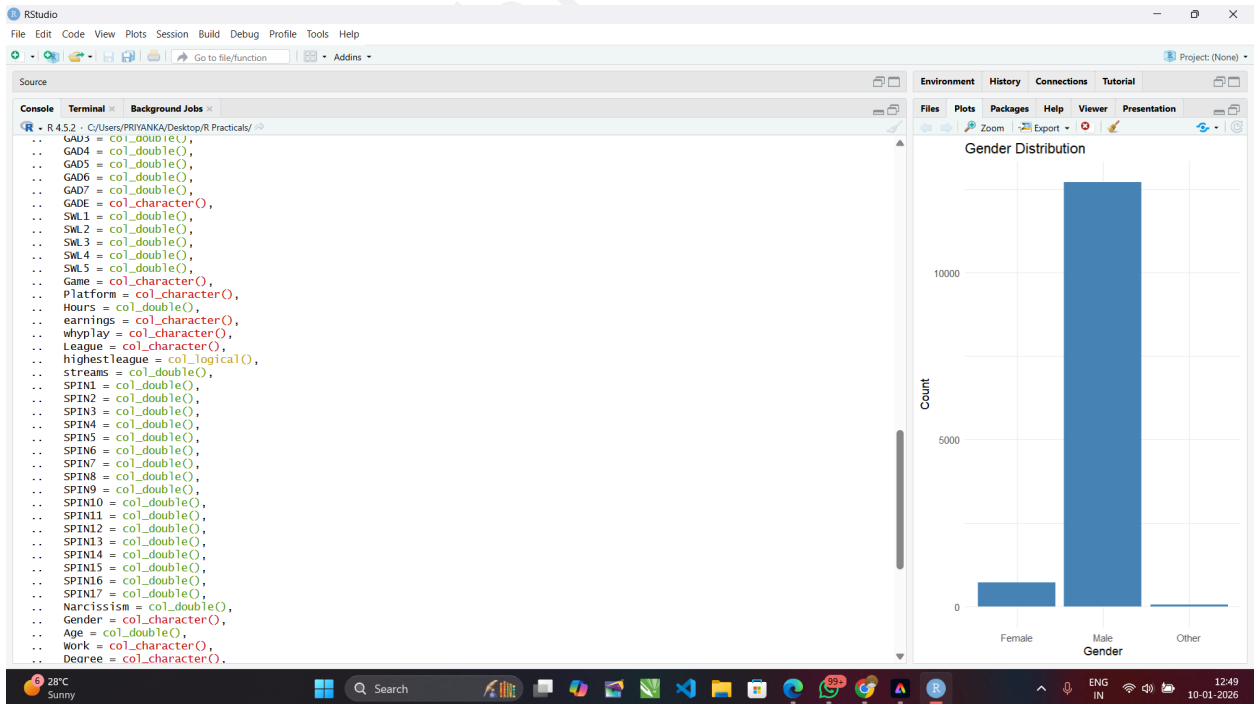
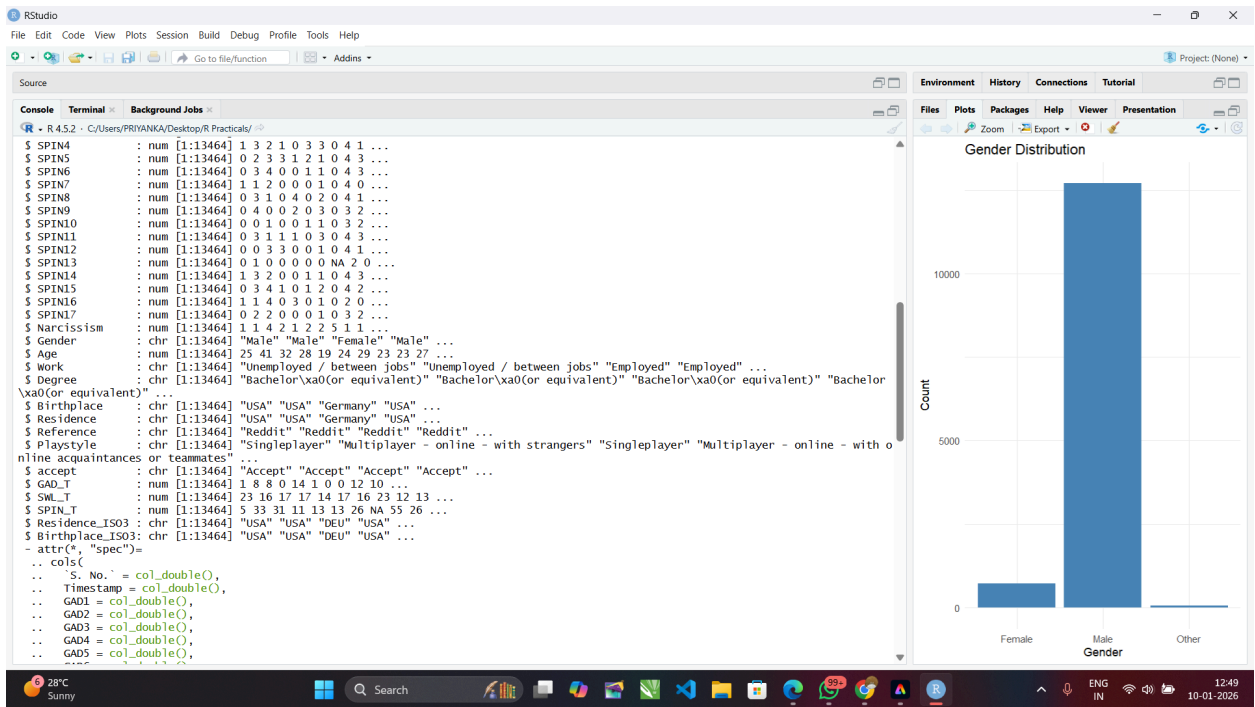
Module 2 Practical 10-12

Aim: Creating graphical reports using ,ggplot2 (R)

OUTPUT:

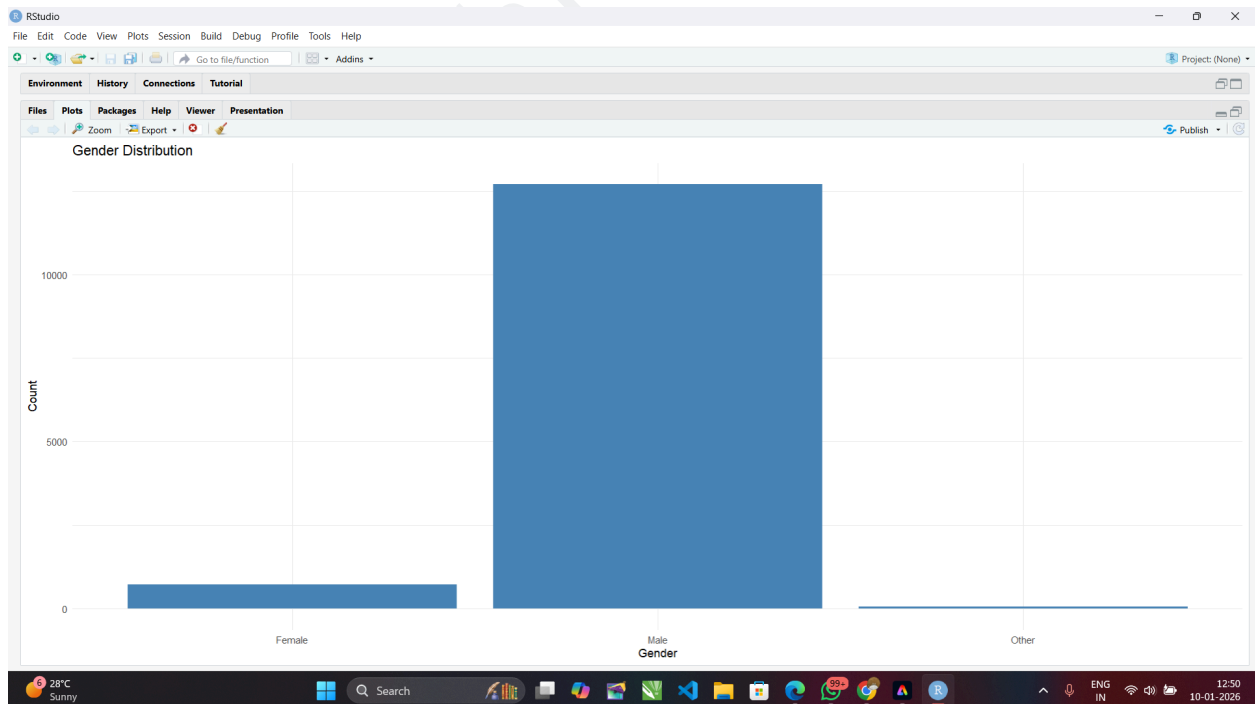
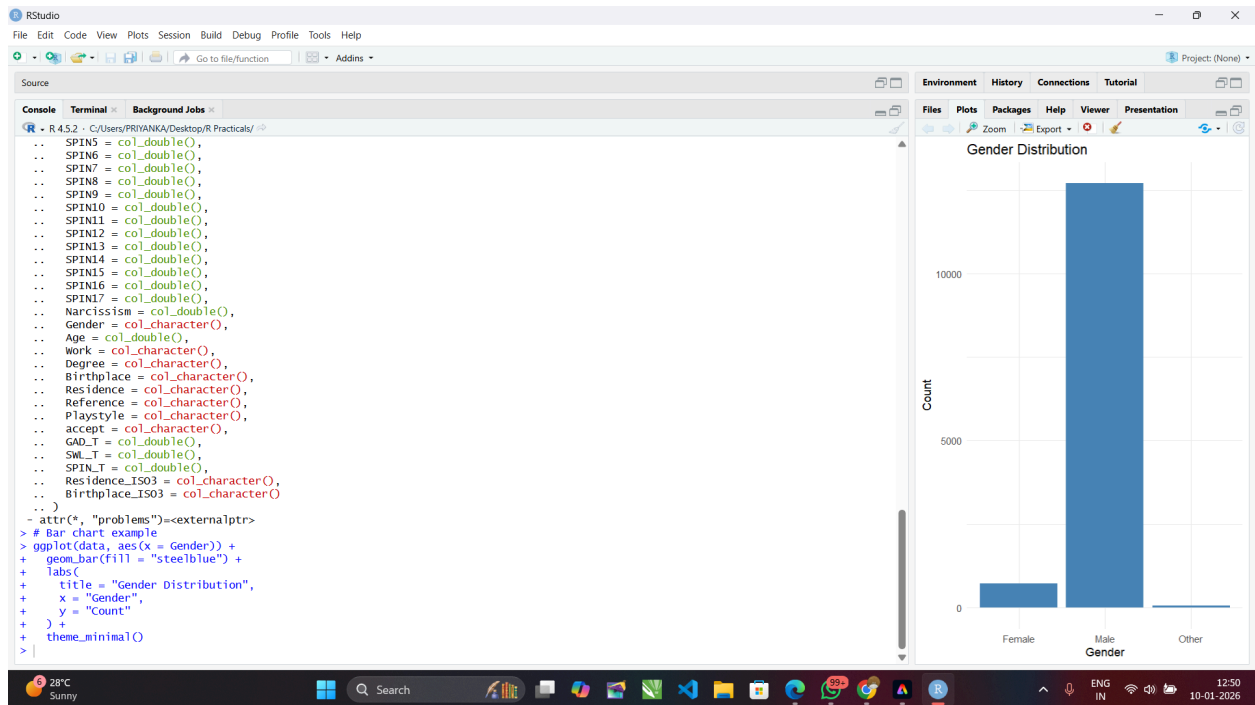


SUBJECT NAME: DATA ANALYSIS WITH SAS/SPSS/R



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SUBJECT NAME: DATA ANALYSIS WITH SAS/SPSS/R

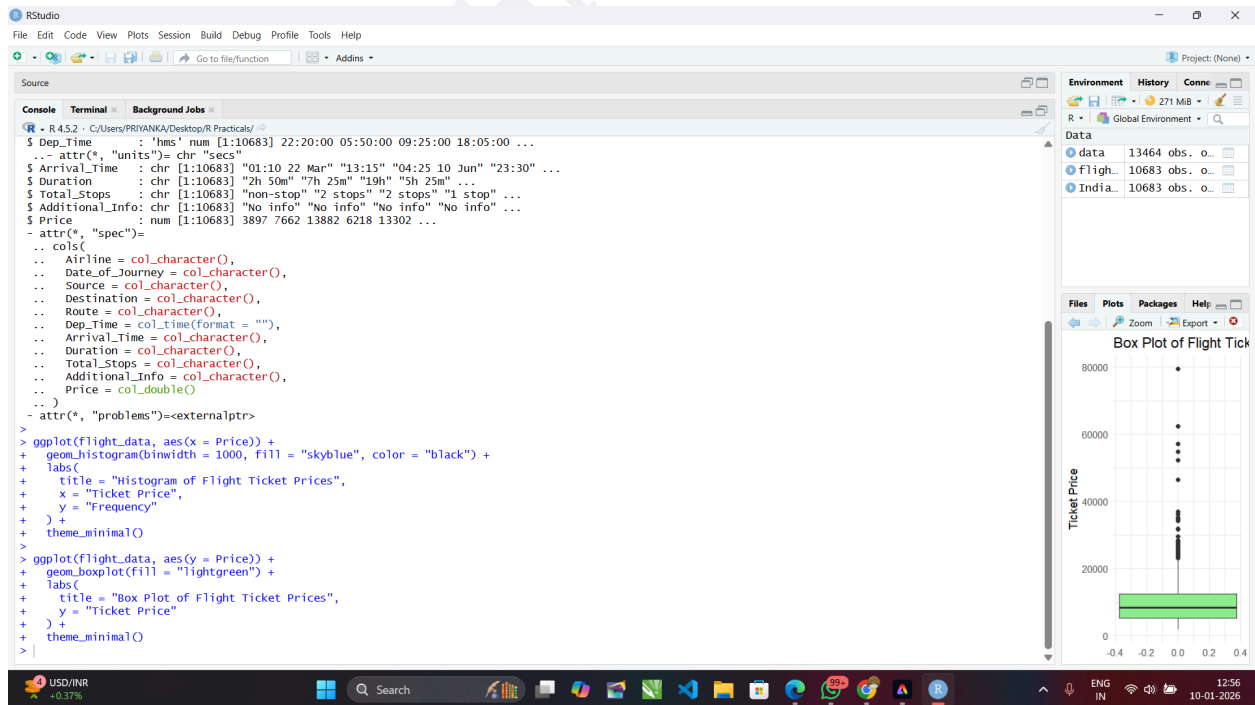
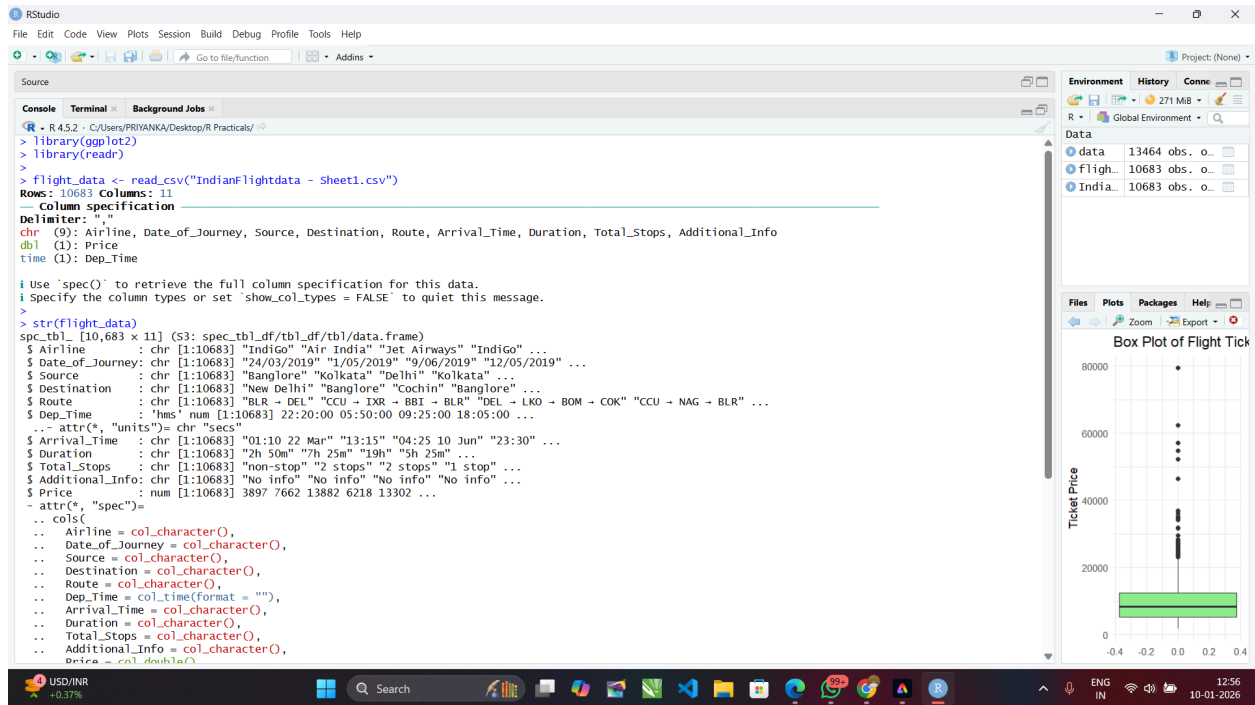


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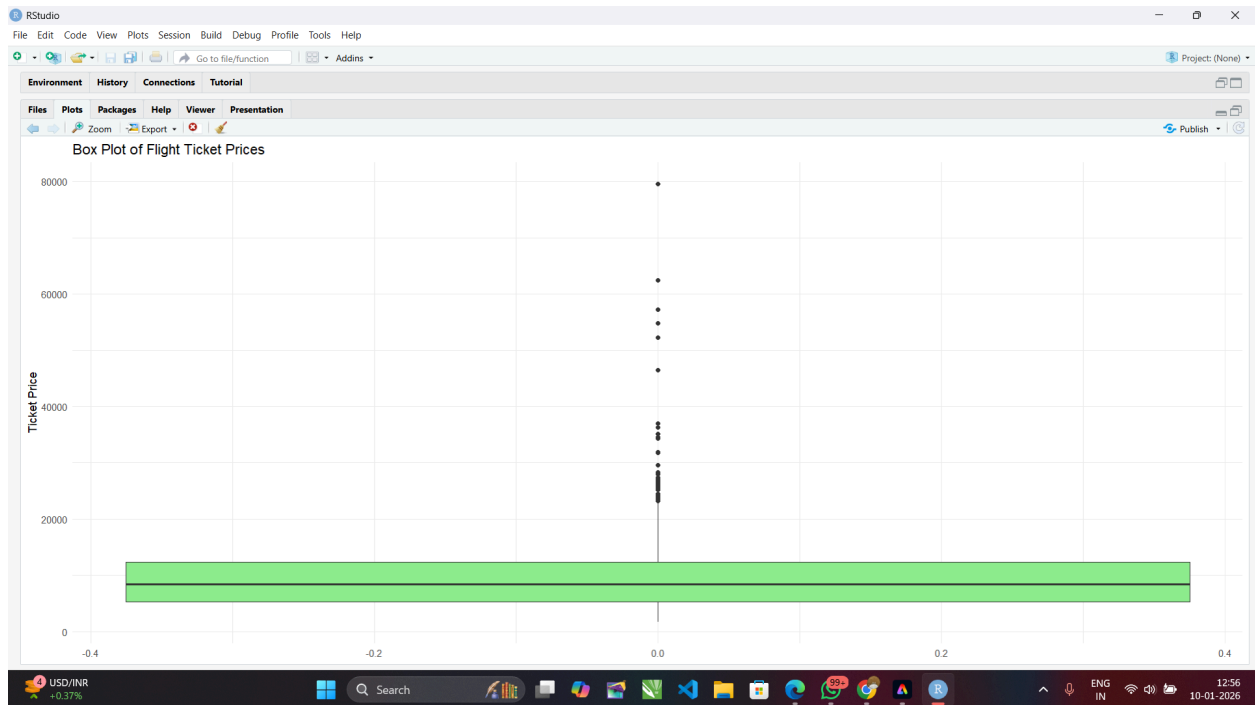
SUBJECT NAME: DATA ANALYSIS WITH SAS/SPSS/R

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

OUTPUT:



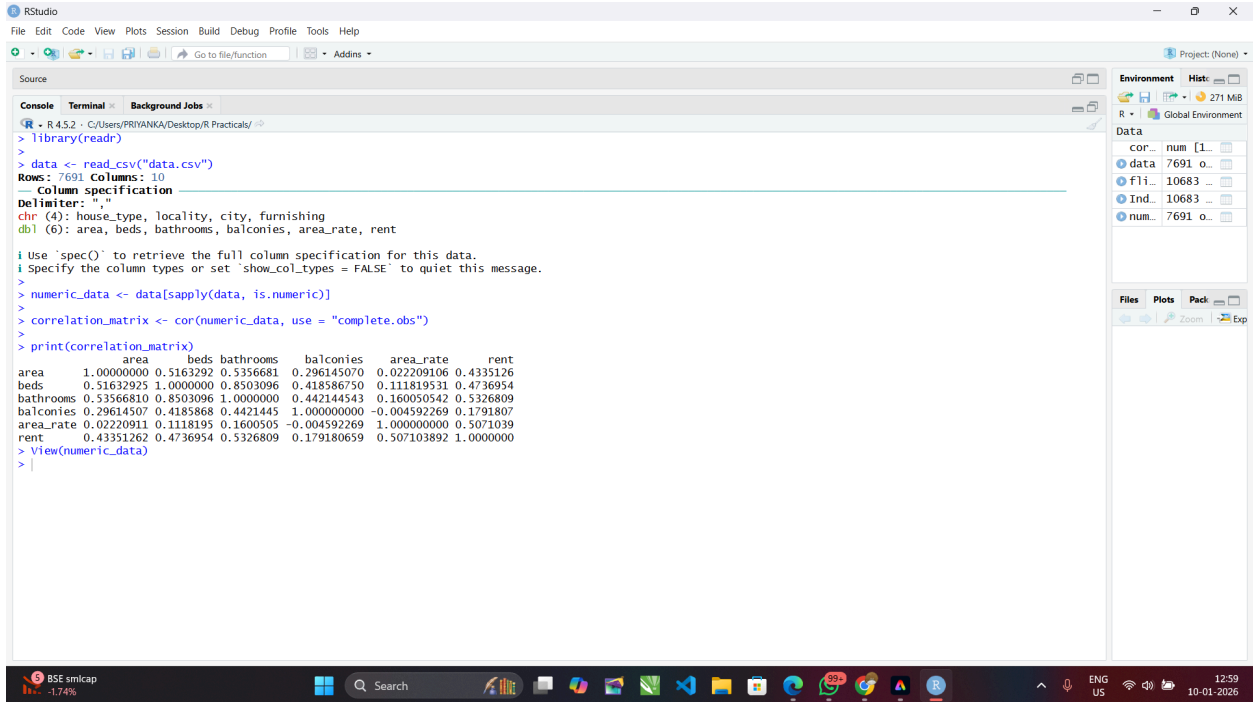
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SUBJECT NAME: DATA ANALYSIS WITH SAS/SPSS/R

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

OUTPUT:



The screenshot displays the RStudio interface. The console window shows the following R code and its output:

```
> 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

i Use 'spec()' to retrieve the full column specification for this data.
i 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	1.00000000	0.5163292	0.5356681	0.29614507	0.022209106	0.4335126
beds	0.51632925	1.0000000	0.8503096	0.418586750	0.111819531	0.4736954
bathrooms	0.53566810	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)
```

The Environment pane on the right shows the objects created: 'cor...' (numeric [1...]), 'data' (7691 o...), 'fli...' (10683 ...), 'Ind...' (10683 ...), and 'num...' (7691 o...). The Windows taskbar at the bottom shows the system clock as 12:59 on 10-01-2026.