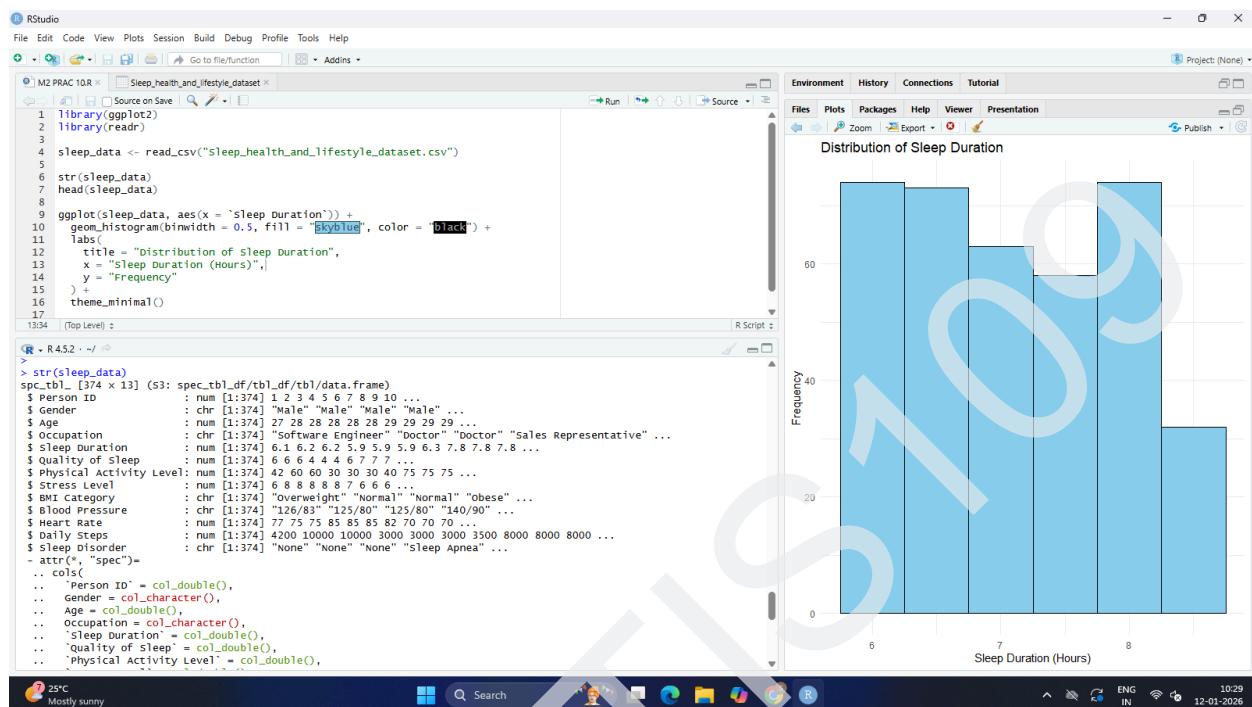


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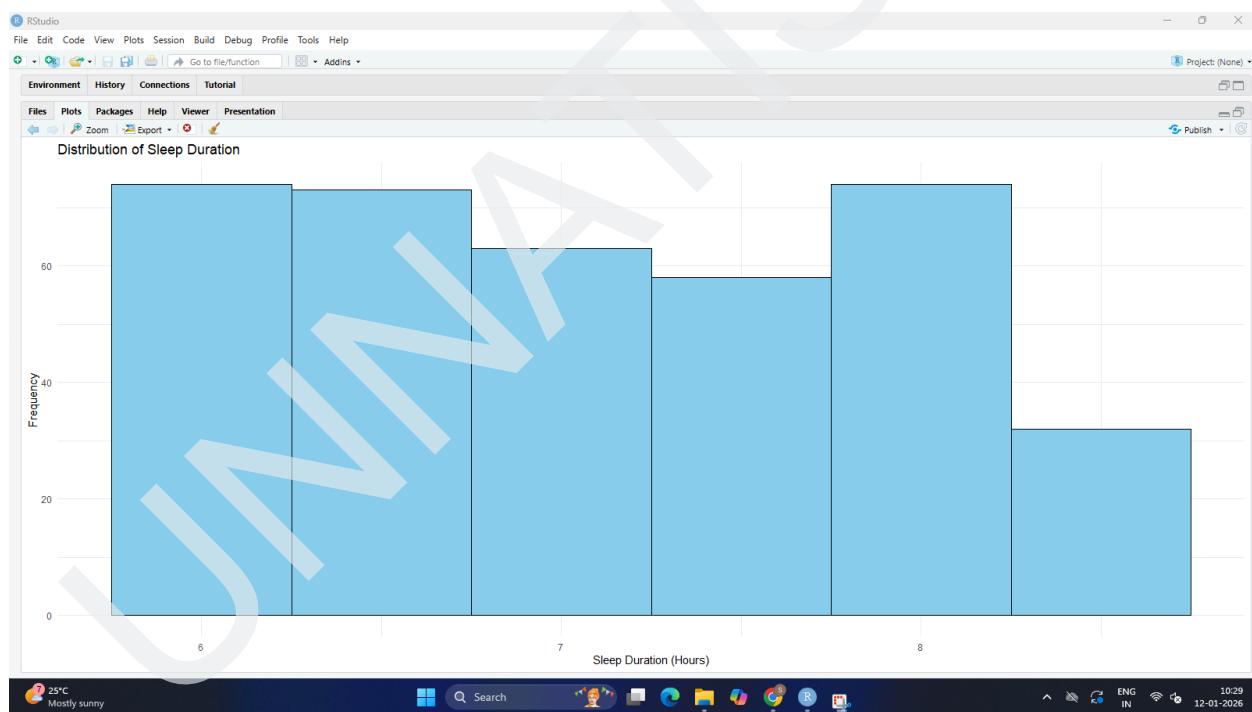
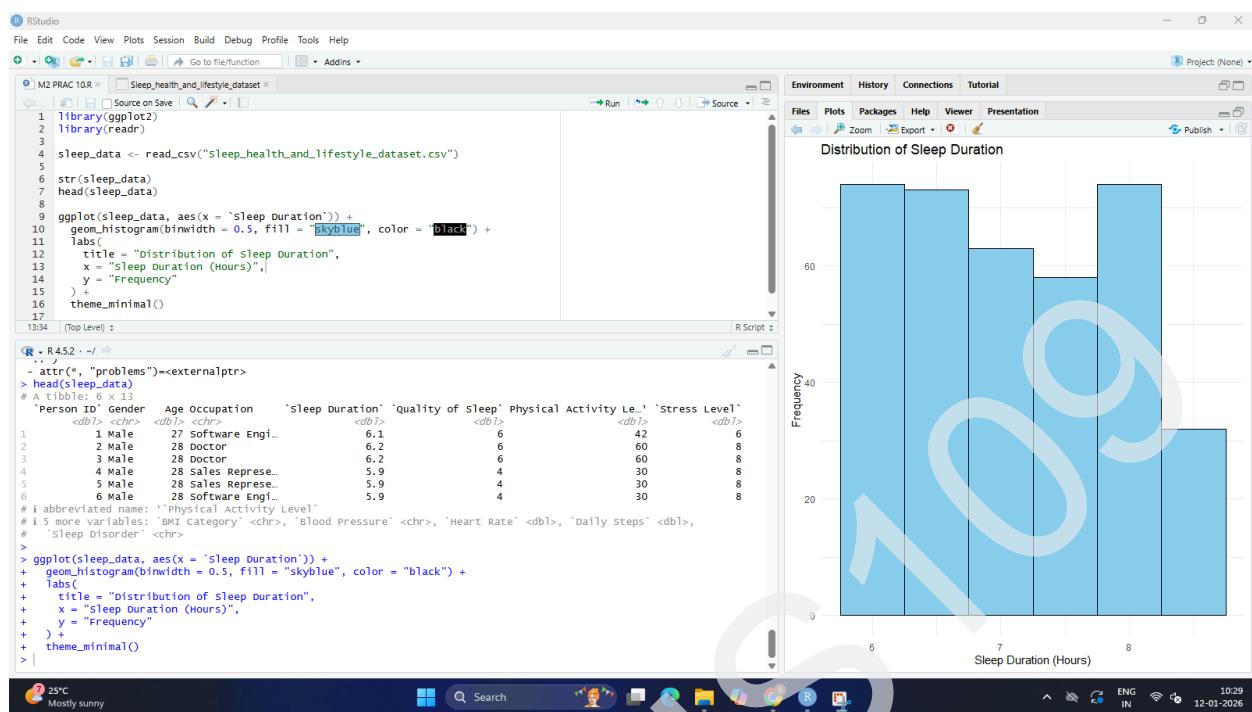
PRAC 10

AIM - Creating graphical reports using ,ggplot2 (R).



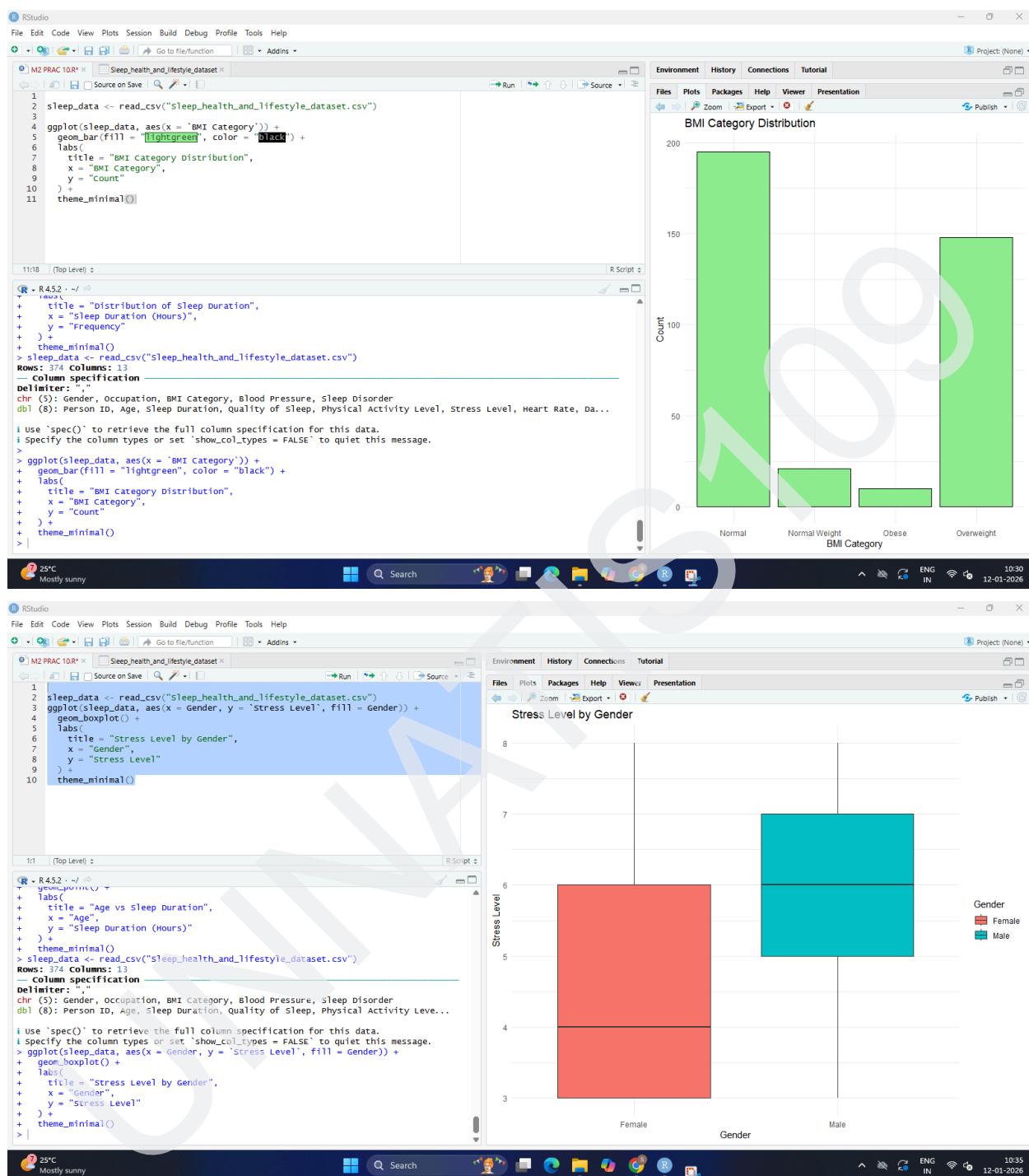
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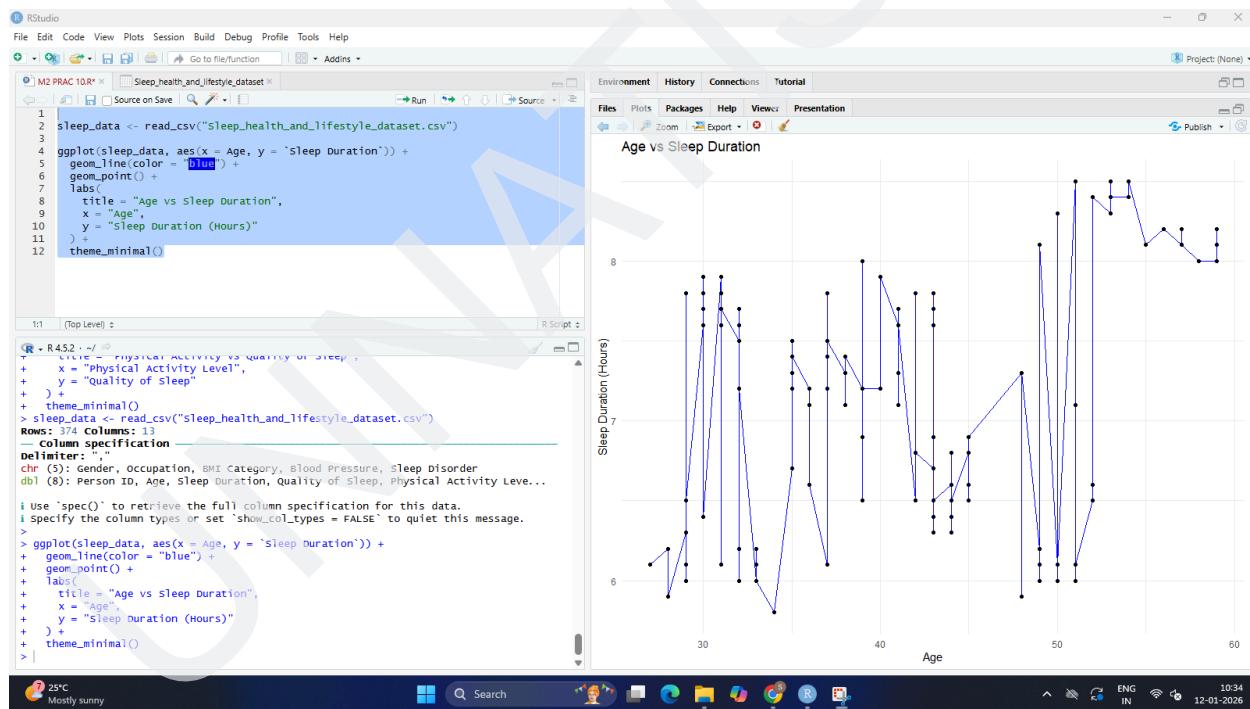
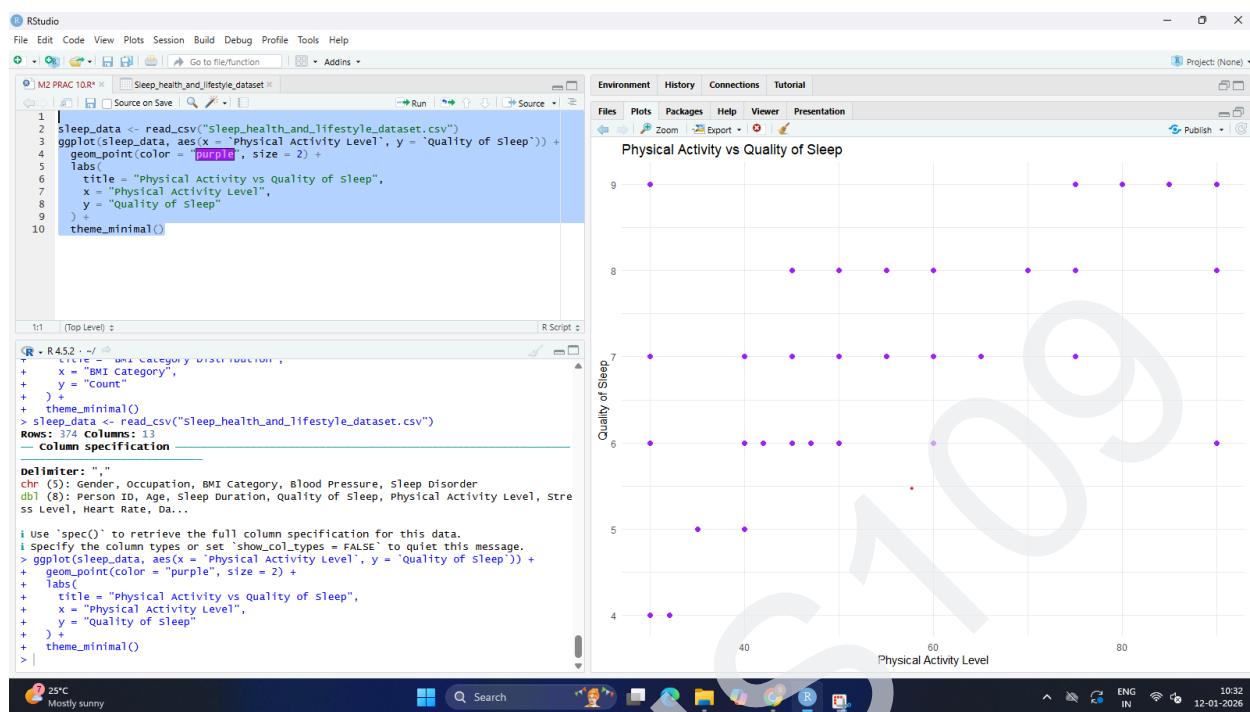
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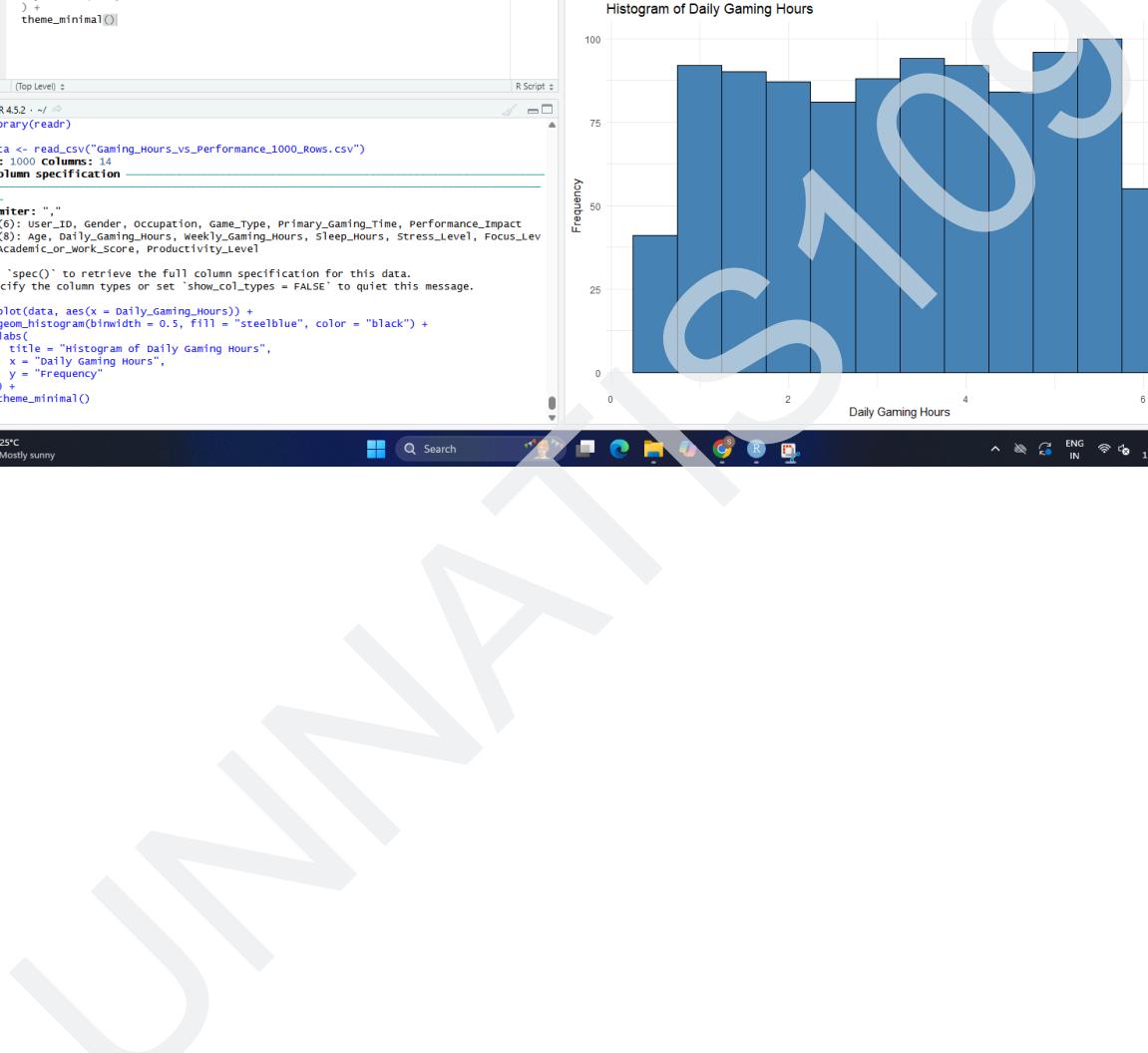


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PRAC 11

AIM-Generating histograms and box plots using ggplot2 (R).



RStudio interface showing R code and a histogram.

```

library(ggplot2)
library(readr)
data <- read_csv("Gaming_Hours_vs_Performance_1000_R...csv")
ggplot(data, aes(x = daily_Gaming_Hours)) +
  geom_histogram(binwidth = 0.5, fill = "steelblue", color = "black") +
  labs(
    title = "Histogram of Daily Gaming Hours",
    x = "Daily Gaming Hours",
    y = "Frequency"
  ) +
  theme_minimal()
  
```

The R console shows:

```

> R 4.5.2 -/-
> library(readr)
> data <- read_csv("Gaming_Hours_vs_Performance_1000_R...csv")
Rows: 1000 Columns: 14
-- Column specification --
Delimiter: ","
chr (6): User_ID, Gender, Occupation, Game_Type, Primary_Gaming_Time, Performance_Impact
dbl (8): Age, daily_Gaming_Hours, weekly_Gaming_Hours, Sleep_Hours, Stress_Level, Focus_Level, Academic_or_work_Score, Productivity_Level

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.
>
> ggplot(data, aes(x = daily_Gaming_Hours)) +
+   geom_histogram(binwidth = 0.5, fill = "steelblue", color = "black") +
+   labs(
+     title = "Histogram of Daily Gaming Hours",
+     x = "Daily Gaming Hours",
+     y = "Frequency"
+   ) +
+   theme_minimal()
> |
```

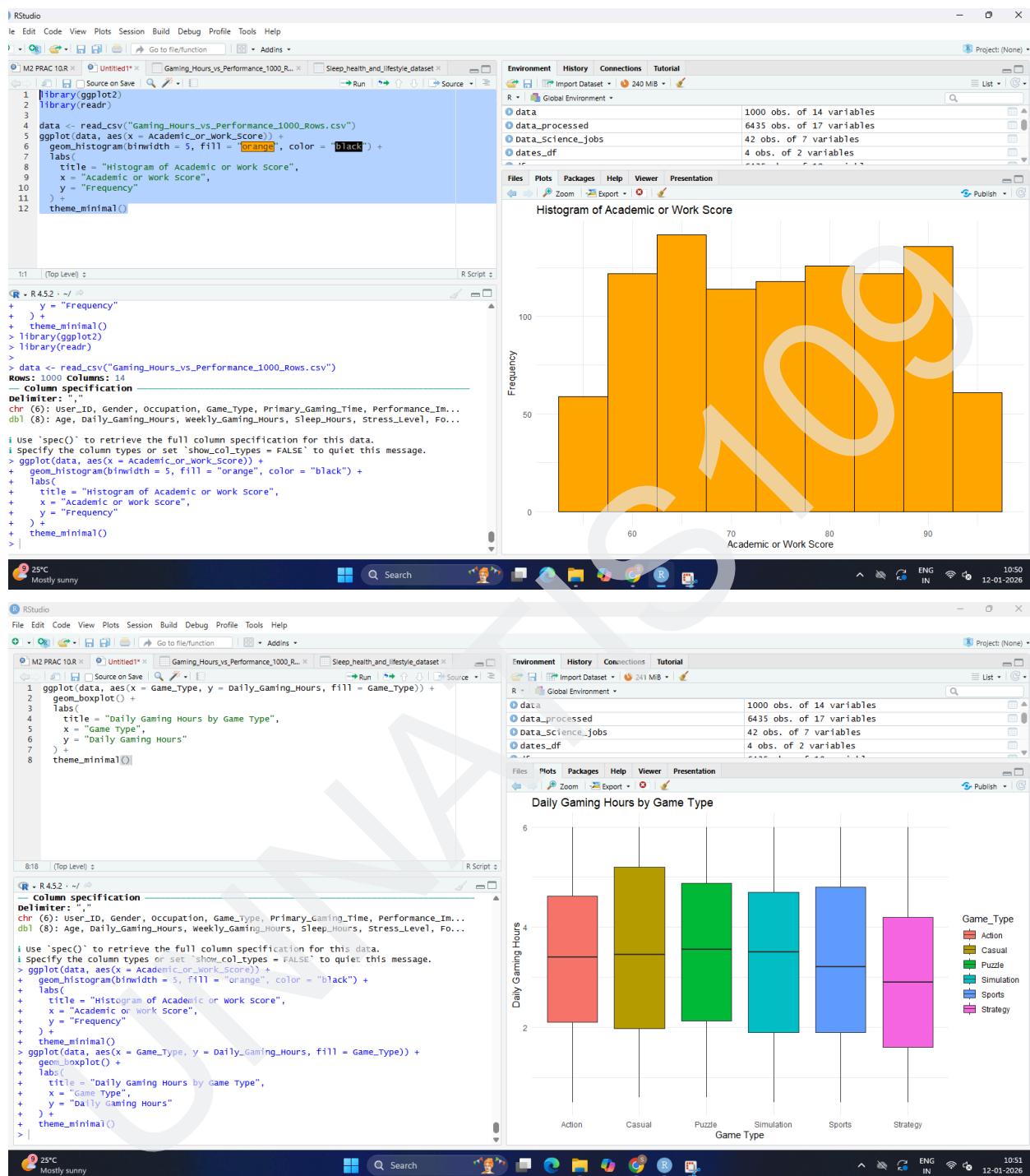
The Environment pane shows:

- data: 1000 obs. of 14 variables
- data_processed: 6435 obs. of 17 variables
- Data_Science_jobs: 42 obs. of 7 variables
- dates_df: 4 obs. of 2 variables

The Plots pane displays a histogram titled "Histogram of Daily Gaming Hours". The x-axis is labeled "Daily Gaming Hours" and ranges from 0 to 6. The y-axis is labeled "Frequency" and ranges from 0 to 100. The histogram consists of approximately 13 blue bars representing the frequency of daily gaming hours bins. The distribution is roughly symmetric and centered around 3-4 hours.

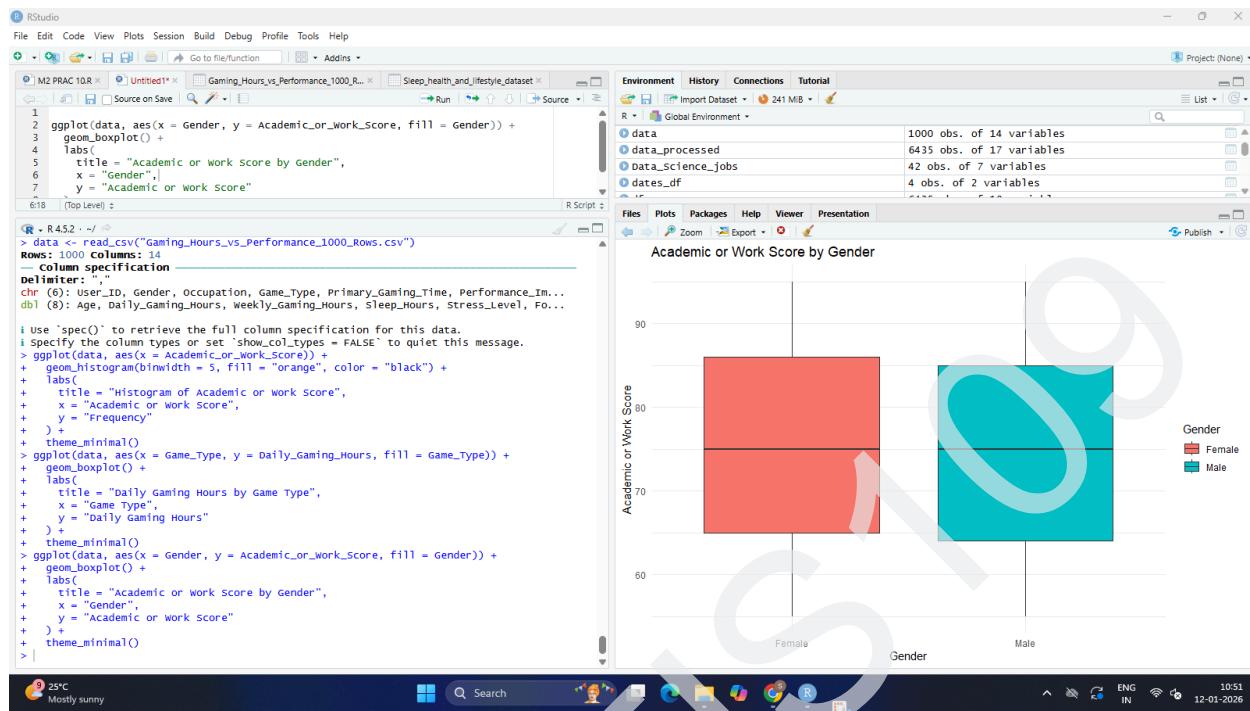
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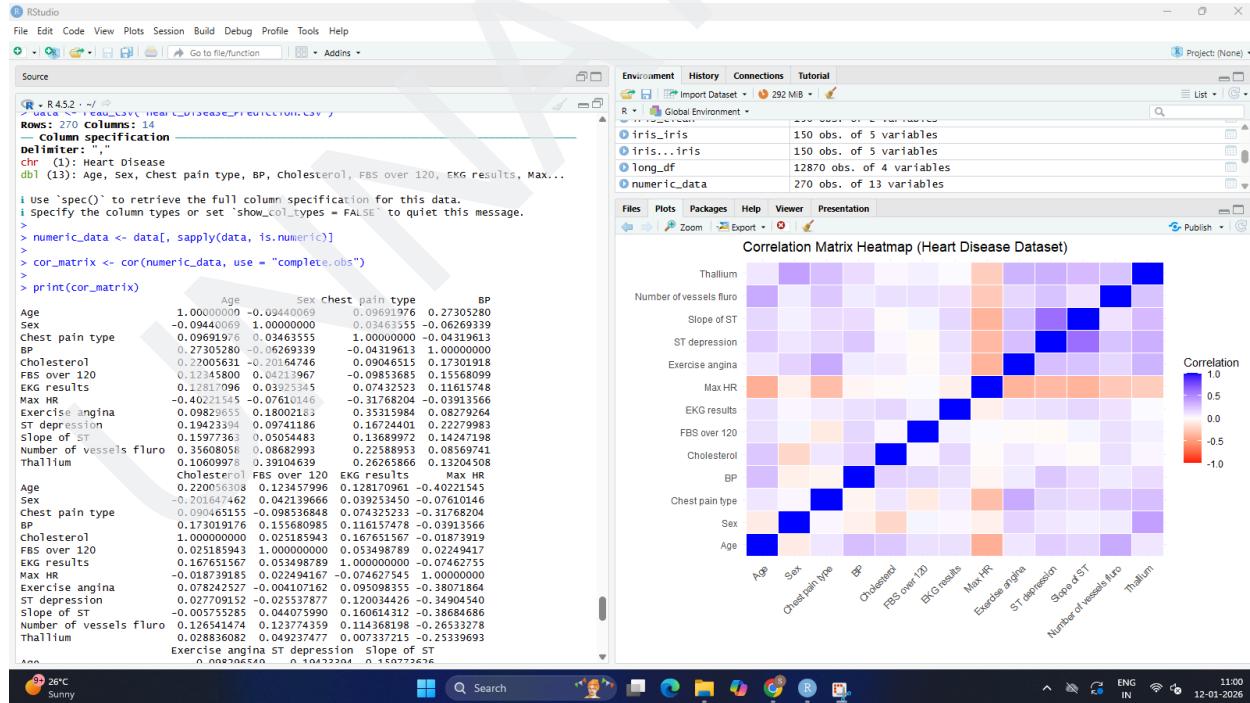
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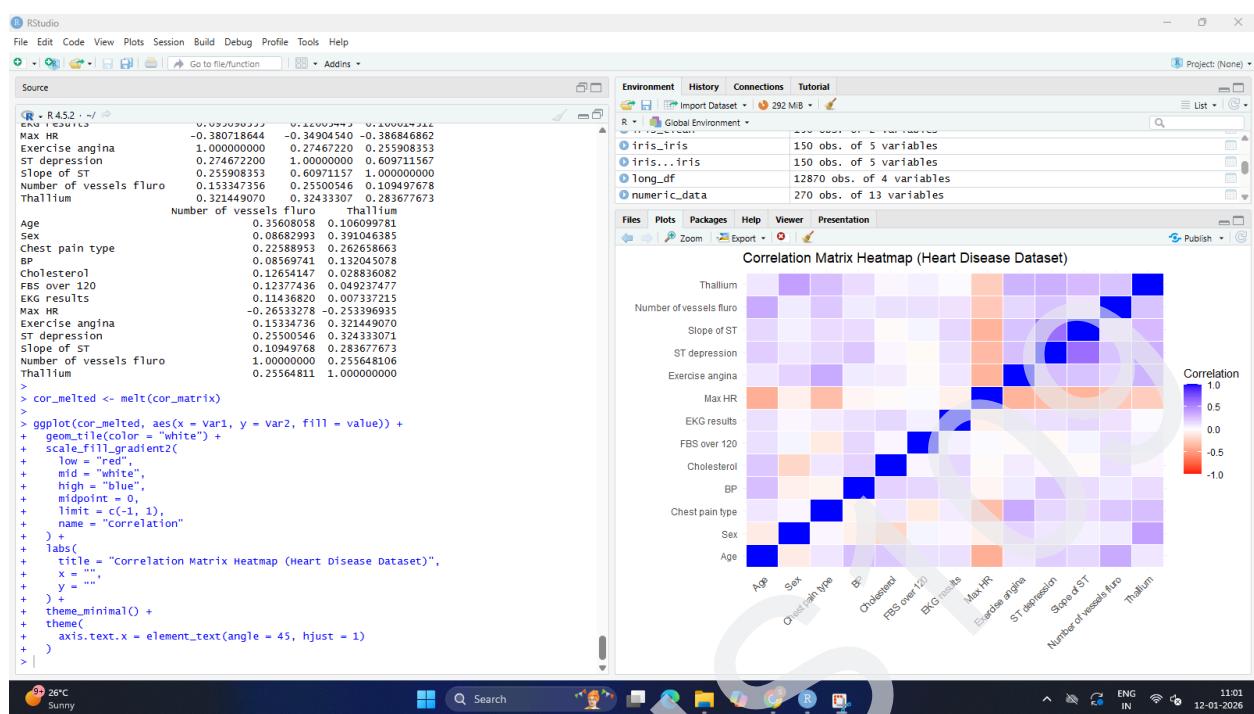
PRAC 12

AIM - Generating correlation matrices using cor() (R).



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