

SHETH L.U.J AND SIR M.V COLLEGE

The image displays two screenshots of the RStudio interface, showing the process of installing a package and manipulating a dataset.

Top Screenshot:

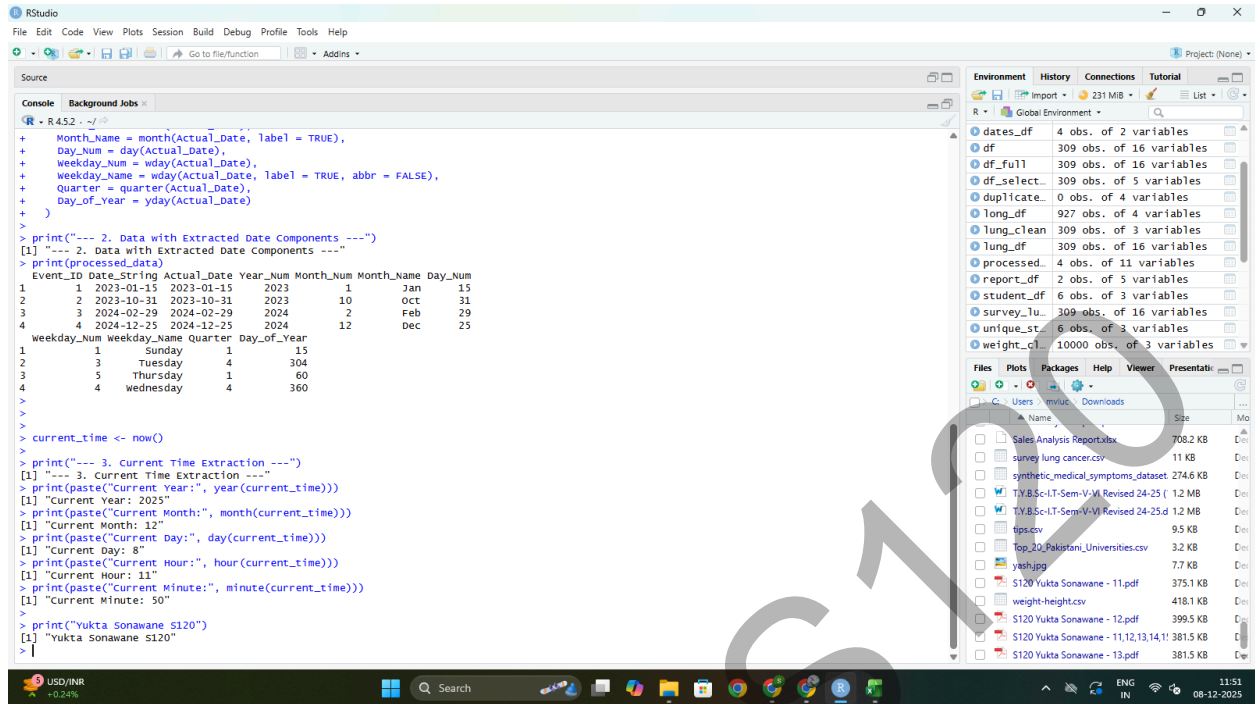
- Console:** Shows the installation of the 'lubridate' package. It includes a warning about Rtools, the installation path, and the successful installation of the package and its dependency 'timechange'. The code also shows the creation of a data frame 'dates_df' with columns 'Event_ID' and 'Date_String'.
- Environment:** Lists the installed packages and their sizes, including 'dates_df' (4 obs. of 2 variables), 'df' (309 obs. of 16 variables), 'df_full' (309 obs. of 16 variables), 'df_select' (309 obs. of 5 variables), 'duplicate' (0 obs. of 4 variables), 'long_df' (927 obs. of 4 variables), 'lung_clean' (309 obs. of 3 variables), 'lung_df' (309 obs. of 16 variables), 'processed' (4 obs. of 11 variables), 'report_df' (2 obs. of 5 variables), 'student_df' (6 obs. of 3 variables), 'survey_lu' (309 obs. of 16 variables), 'unique_st' (6 obs. of 3 variables), and 'weight_cl' (10000 obs. of 3 variables).

Bottom Screenshot:

- Console:** Shows the manipulation of the 'dates_df' data frame. The code uses 'mutate()' to extract date components (Year, Month, Day, Weekday, Quarter) from the 'Date_String' column. The resulting data frame 'processed_data' is printed, showing columns for 'Event_ID', 'Date_String', 'Actual_Date', 'Year_Num', 'Month_Num', 'Month_Name', 'Day_Num', 'weekday_Num', 'weekday_Name', 'Quarter', and 'Day_of_Year'.
- Environment:** Lists the installed packages and their sizes, including 'dates_df' (4 obs. of 2 variables), 'df' (309 obs. of 16 variables), 'df_full' (309 obs. of 16 variables), 'df_select' (309 obs. of 5 variables), 'duplicate' (0 obs. of 4 variables), 'long_df' (927 obs. of 4 variables), 'lung_clean' (309 obs. of 3 variables), 'lung_df' (309 obs. of 16 variables), 'processed' (4 obs. of 11 variables), 'report_df' (2 obs. of 5 variables), 'student_df' (6 obs. of 3 variables), 'survey_lu' (309 obs. of 16 variables), 'unique_st' (6 obs. of 3 variables), and 'weight_cl' (10000 obs. of 3 variables).

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The screenshot shows the RStudio interface. The console on the left displays the execution of R code that extracts date components and current time. The file explorer on the right shows a list of files in the 'Downloads' folder.

```
R - R 4.5.2 - ~/r
File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function Addins
Source
Console Background Jobs
R - R 4.5.2 - ~/r
+ Month_Name = month(Actual_Date, label = TRUE),
+ Day_Num = day(Actual_Date),
+ weekday_Num = wday(Actual_Date),
+ weekday_Name = wday(Actual_Date, label = TRUE, abbr = FALSE),
+ Quarter = quarter(Actual_Date),
+ Day_of_Year = yday(Actual_Date)
+ )
+
>
> print("--- 2. Data with Extracted Date Components ---")
[1] "--- 2. Data with Extracted Date Components ---"
> print(processed_data)
  Event_ID Date_String Actual_Date Year_Num Month_Num Month_Name Day_Num
1      1 2023-01-15 2023-01-15 2023      1      Jan    15
2      2 2023-10-31 2023-10-31 2023     10      Oct    31
3      3 2024-02-29 2024-02-29 2024      2      Feb    29
4      4 2024-12-25 2024-12-25 2024     12      Dec    25
  weekday_Num weekday_Name Quarter Day_of_Year
1      1      Sunday      1      15
2      3    Tuesday      4     304
3      5   Thursday      1      60
4      4   Wednesday      4     360
+
>
> current_time <- now()
>
> print("--- 3. Current Time Extraction ---")
[1] "--- 3. Current Time Extraction ---"
> print(paste("Current Year:", year(current_time)))
[1] "Current Year: 2025"
> print(paste("Current Month:", month(current_time)))
[1] "Current Month: 12"
> print(paste("Current Day:", day(current_time)))
[1] "Current Day: 8"
> print(paste("Current Hour:", hour(current_time)))
[1] "Current Hour: 11"
> print(paste("Current Minute:", minute(current_time)))
[1] "Current Minute: 50"
>
> print("Yukta Sonawane S120")
[1] "Yukta Sonawane S120"
> |
```

Environment History Connections Tutorial
R - Global Environment
dates_df 4 obs. of 2 variables
df 309 obs. of 16 variables
df_full 309 obs. of 16 variables
df_select 309 obs. of 5 variables
duplicate 0 obs. of 4 variables
long_df 927 obs. of 4 variables
lung_clean 309 obs. of 3 variables
lung_df 309 obs. of 16 variables
processed 4 obs. of 11 variables
report_df 2 obs. of 5 variables
student_df 6 obs. of 3 variables
survey_lu 309 obs. of 16 variables
unique_st 6 obs. of 3 variables
weight_cl 10000 obs. of 3 variables

Files Plots Packages Help Viewer Presentation
C:\Users\mivuc\Downloads
Sales Analysis Report.xlsx 708.2 KB
survey_lung_cancer.csv 11 KB
synthetic_medical_symptoms_dataset 274.6 KB
TV.B.Sc-IT-Sem-V-M Revised 24-25 (1.2 MB
TV.B.Sc-IT-Sem-V-M Revised 24-25.d 1.2 MB
tps.csv 9.5 KB
Top_20_Pakistani_Universities.csv 3.2 KB
yash.jpg 7.7 KB
S120 Yukta Sonawane - 11.pdf 375.1 KB
weight-height.csv 418.1 KB
S120 Yukta Sonawane - 12.pdf 399.5 KB
S120 Yukta Sonawane - 11,12,13,14,15 381.5 KB
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