

MVLU COLLEGE
R PRACTICAL 14

Aim:Extracting date components using lubridate:: functions (R).

Output:

The screenshot shows an RStudio interface with the following details:

- Header:** RStudio, File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help.
- Toolbar:** Source, Console, Terminal, Background Jobs, Go to file/function, Addins.
- Console:** R 4.1.2 . ~/r
The console displays R code for creating sample data and extracting date components from a string. It includes comments explaining the steps and variable assignments.
- Environment:** Global Environment, Import Dataset (94 MB), List.
Shows objects in the global environment: runs_by_opponent (8 obs. of 5 variables), selected_cols (106 obs. of 9 variables), starts_with_p (106 obs. of 9 variables), team_lookup (8 obs. of 2 variables), tidy_cricket (106 obs. of 11 variables), values (3.93333333333333), avg_rating (3.93333333333333), and current_time (2025-12-08 12:45:22 IST).
- Files:** Shows a file tree with various projects and files like tue_sales.csv, GIS DataBase, IISExpress, My Music, My Pictures, My Videos, My Web Sites, R, SM PRACTICAL - II 20.txt, SM PRACTICAL - II.txt, total_bills.csv, Virtual Machines, Visual Studio 2022, and WindowsPowerShell.
- Bottom Status Bar:** 30°C, Sunny, Search, Home, Google, R, Microsoft Edge, Task View, File Explorer, Taskbar, ENG IN, 12:58, 08-12-2025.

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

Source

Console Terminal Background Jobs

```
R - R 4.1.2 - ~/r...  
...  
+   quarter      = quarter(Actual_Date),  
+   Day_of_Year  = yday(Actual_Date)          # Fiscal quarter (1-4)  
# Day count in year (1-366)  
+ )  
> # Check for any parsing failures  
+ if (any(is.na(processed_data$Actual_Date))) {  
+   warning("Some Date_String values failed to parse into Actual_Date. Check input values.")  
+ }  
> print("---- Data with Extracted Date Components ----")  
[1] "---- Data with Extracted Date Components ----"  
> print(processed_data)  
Event_ID Date_String Actual_Date Year_Numb Month_Num Month_Name Day_Num Weekday_Num  
1       1 2023-01-15 2023-01-15 2023      1    Jan      15           1  
2       2 2023-10-31 2023-10-31 2023      10   Oct      31           3  
3       3 2024-02-29 2024-02-29 2024      2    Feb      29           5  
4       4 2024-12-25 2024-12-25 2024      12   Dec      25           4  
Weekday_Name Quarter Day_of_Year  
1 Sunday      1     15  
2 Tuesday      4     304  
3 Thursday     1     60  
4 wednesday    4     360  
> # 3. System Date : Handling "Now"  
> # Use explicit timezone if you want deterministic output, otherwise system timezone is used  
> current_time <- now(tzzone = sys.timezone())  
> print("---- Current Time Extraction ----")  
[1] "---- Current Time Extraction ----"  
> print(paste("Current Year:", year(current_time)))  
[1] "Current Year: 2025"  
> print(paste("Current Hour:", hour(current_time)))  
[1] "Current Hour: 12"  
> print(paste("Current Minute:", minute(current_time)))  
[1] "Current Minute: 45"  
>  
>
```

Environment History Connections Tutorial

Import Dataset 94 MB

Global Environment

selected_cols 106 obs. of 9 variables

starts_with_p 106 obs. of 9 variables

team_lookup 8 obs. of 2 variables

tidy_cricket 106 obs. of 11 variables

values

avg_rating 3.933333333333333

current_time 2025-12-08 12:45:22 IST

Files Plots Packages Help Viewer Presentation

Home

Name Size Modified

- tue_sales.csv
- GIS DataBase
- IISExpress
- My Music
- My Pictures
- My Videos
- My Web Sites
- R
- SM PRACTICAL - II 20.txt 1.2 KB Aug 22, 2025, 3:02 PM
- SM PRACTICAL - II.txt 1.2 KB Aug 22, 2025, 3:01 PM
- total_bills.csv
- Virtual Machines
- Visual Studio 2022
- WindowsPowerShell

7 30°C Sunny

ENG IN

12:59 08-12-2025