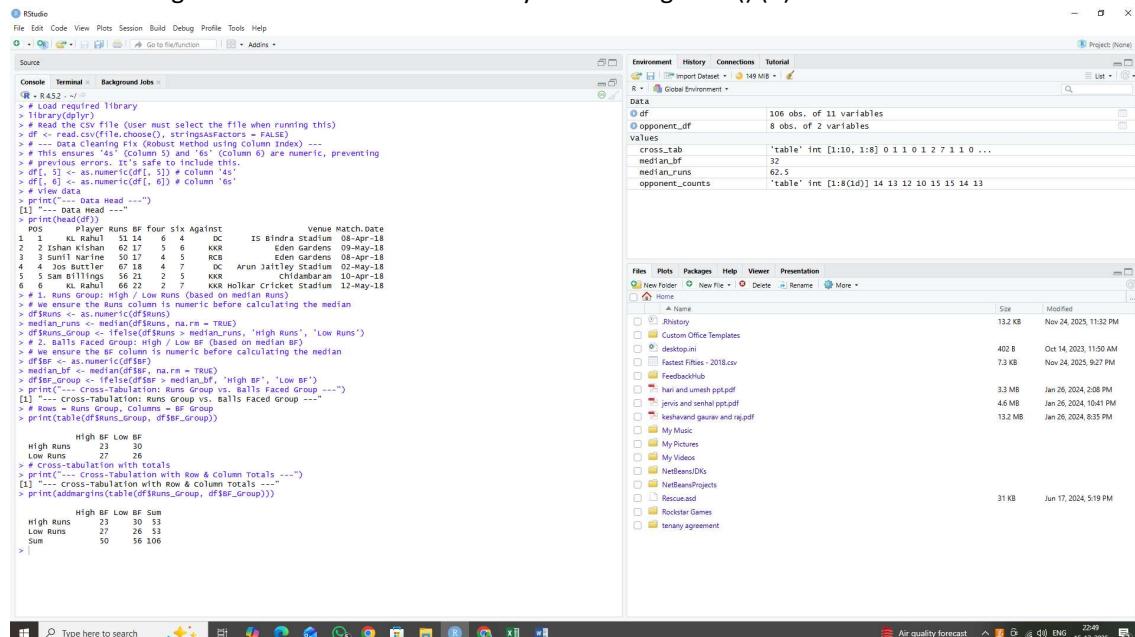


MVLU COLLEGE
R PRACTICAL 3 MODULE 2

Aim: -. Creating cross-tabulations and two-way tables using table() (R).



The screenshot shows the RStudio interface with the following details:

- Console:** Displays R code and its output. The code reads a CSV file, creates a data frame, and performs various operations like head(), median(), and table().
- Environment:** Shows the global environment with objects like df, opponent_df, cross_tab, median_bf, median_runs, and opponent_counts.
- Data View:** Shows the structure of the 'df' data frame with 106 observations and 2 variables.
- Files View:** Shows a file tree with files like 'Rhistory', 'desktop.ini', 'Fastest Flies - 2018.csv', 'FeedbackHub', 'hari and umesh.pdf', 'javin and senhal.pdf', 'kevaland gaurav and rig.pdf', 'My Music', 'My Pictures', 'My Videos', 'NetBeansOKs', 'NetBeansProjects', 'Rescue.ad', 'Rockstar Games', and 'tenancy agreement'.
- File Bar:** Includes options for File, Plot, Packages, Help, Viewer, and Presentation.
- Taskbar:** Shows the Windows taskbar with various pinned icons.
- System Tray:** Shows system icons for battery, signal, and date/time (15-12-2024, 22:49).

```

> # Load required library
> # library(tidyverse)
> # read the CSV file. User must select the file when running this
> df <- read.csv("file.choose()", stringsAsFactors = FALSE)
> # This ensures '45' (Column 5) and '65' (Column 6) are numeric, preventing
> # previous errors. It's safe to include this.
> df[,5] <- as.numeric(df[,5]) # Column '45'
> df[,6] <- as.numeric(df[,6]) # Column '65'
> # View data
> print(head(df))
#> [1] "data head ---"
#> [1] "for runs or four six Against" "Venue Match.Date"
#> [1] "1 K.L.Rahul 51 14 6 4 DC IS Bindra Stadium 08-Apr-18"
#> [2] "2 Ishan Kishan 62 17 5 6 KKR Eden Gardens 09-May-18"
#> [3] "3 KL Rahul 51 14 6 4 DC Eden Gardens 09-May-18"
#> [4] "4 Jos Buttler 67 18 4 7 KC Arun Jaitley Stadium 02-May-18"
#> [5] "5 Sam Billings 56 21 2 5 KKR Chidambaram 10-Apr-18"
#> [6] "6 KL Rahul 51 14 6 4 DC Eden Gardens 09-May-18"
#> [1] "Runs Group: High / Low Runs (based on median Runs)"
> # We ensure the Runs column is numeric before calculating the median
> df$median_runs <- median(df$Runs, na.rm = TRUE)
> df$Runs_group <- ifelse(df$Runs > median_runs, "High Runs", "Low Runs")
> # We ensure the AF column is numeric before calculating the median
> df$AF <- as.numeric(df$AF)
> df$median_bf <- median(df$bf, na.rm = TRUE)
> df$bf_group <- ifelse(df$bf > median_bf, "High BF", "Low BF")
> print("--- Cross-Tabulations: Runs Group vs. Balls Faced Group ---")
[1] "--- Cross-Tabulations: Runs Group vs. Balls Faced Group ---"
> # Runs Group column vs. Balls Faced Group
> print(table(df$Runs_group, df$bf_group))
> print(table(df$Runs_group, df$group))
High BF Low BF
High Runs    23    30
Low Runs     26    53
> # Cross-Tabulation with totals
> print(" --- Cross-Tabulation with Row & Column Totals --- ")
[1] " --- Cross-Tabulation with Row & Column Totals --- "
> print(cadmar margins(table(df$Runs_group, df$group)))

```