

SHETH L.U.J AND SIR M.V. COLLEGE
SUBJECT NAME: Data Analysis with SAS / SPSS / R
Practical No. 6

Aim: Combining and appending datasets using merge () or bind rows () in R.

Output-

```
RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function Addins
Source
Console Terminal Background Jobs
R - R4.1.2 - ~/
> library(dplyr)
> # Read your CSV file
> cricket_data <- read.csv("D:/dhairya/R/Fastest_Fifties_All_Seasons_combine.csv")# FOR DEMONSTRATION:
> batch_1 <- head(cricket_data, 5)
> batch_2 <- cricket_data[6:10, ]
> # Dataset 3: Team Names Table (To practice Merging)
> team_lookup <- data.frame(
+   Against = c("CSK", "MI", "DEC", "RR", "PBKS"),
+   Full_Team_Name = c("Chennai Super Kings", "Mumbai Indians",
+     "Deccan Chargers", "Rajasthan Royals", "Punjab Kings")
+ )
> print("---- Main Data Loaded ----")
[1] "---- Main Data Loaded ----"
> print(head(cricket_data))
   X      Player Runs BF X4s X6s Against      Venue      Match.Date
1 0      Yusuf Pathan    61 21  4  6    DEC Rajiv Gandhi Intl. Cricket Stadium 24 April 2008
2 1 Kumar Sangakkara    94 23 13  1    MI      IS Bindra Stadium 25 April 2008
3 2 Virender Sehwag    51 23  2  5    PBKS    Arun Jaitley Stadium 17 May 2008
4 3 Kumar Sangakkara    50 23  7  2    DEC      IS Bindra Stadium 23 May 2008
5 4 Virender Sehwag    71 24  7  4    CSK    Chidambaram 02 May 2008
6 5      James Hopes    71 24 10  3    CSK      IS Bindra stadium 19 April 2008
> final_player_list <- bind_rows(batch_1, batch_2)
> print("---- Appended Data (Rows 1-10 combined) ----")
[1] "---- Appended Data (Rows 1-10 combined) ----"
> print(final_player_list)
   X      Player Runs BF X4s X6s Against      Venue      Match.Date
1 0      Yusuf Pathan    61 21  4  6    DEC Rajiv Gandhi Intl. Cricket Stadium 24 April 2008
2 1 Kumar Sangakkara    94 23 13  1    MI      IS Bindra Stadium 25 April 2008
3 2 Virender Sehwag    51 23  2  5    PBKS    Arun Jaitley Stadium 17 May 2008
4 3 Kumar Sangakkara    50 23  7  2    DEC      IS Bindra Stadium 23 May 2008
5 4 Virender Sehwag    71 24  7  4    CSK    Chidambaram 02 May 2008
6 5      James Hopes    71 24 10  3    CSK      IS Bindra Stadium 19 April 2008
7 6      MS Dhoni    65 24  9  3    RCB      M. Chinnaswamy Stadium 28 April 2008
8 7 David Hussey    57 24  4  3    DEC Rajiv Gandhi Intl. Cricket Stadium 11 May 2008
9 8 Sanath Jayasuriya 114 25  9 11    CSK      Wankhede Stadium 14 May 2008
10 9 Rahul Dravid    75 25  6  6    RR      Saiwal Mansingh Stadium 17 May 2008
> merged_data <- merge(cricket_data, team_lookup, by = "Against", all.x = TRUE)
> print("---- Merged Data (Full Team Names Added) ----")
[1] "---- Merged Data (Full Team Names Added) ----"
> # using head() to keep the output clean
> print(head(merged_data))
   Against      X      Player Runs BF X4s X6s      Venue
1      CSK    188    Robin Uthappa    68 33  3  6    M. Chinnaswamy Stadium
2      CSK     27      Ross Taylor    53 30  3  3    M. Chinnaswamy Stadium
3      CSK    634    Kieron Pollard    64 21  4  5    Wankhede Stadium
4      CSK   1022    Parthiv Patel    53 37  5  2    Maharashtra Cricket Association's International Stadium
5      CSK   200    Tirumalasetti Suman 55 37  4  2    Vidarbha Cricket Association Stadium
6      CSK     60    Yusuf Pathan    56 36  3  4    DY Patil Stadium
Match.Date      Full_Team_Name
1 23 March 2010 Chennai Super Kings
2 28 April 2008 Chennai Super Kings
3 17 April 2015 Chennai Super Kings
4 05 May 2018 Chennai Super Kings
5 10 April 2010 Chennai Super Kings
6 01 June 2008 Chennai Super Kings
>
```

The screenshot shows the RStudio interface with the console output of the R code. The code reads a CSV file, creates two batches, and a team lookup table. It then uses `bind_rows()` to append the two batches and `merge()` to join the resulting data with the team lookup table. The Environment pane on the right shows the objects created: `batch_1`, `batch_2`, `cricket_data`, `final_player_list`, `merged_data`, and `team_lookup`. The Files pane shows the project structure.