

MVLU COLLEGE PRACTICAL NO.6

Aim:-Combining and appending datasets using merge() or bind_rows() in R.

```
1 #  
2 # Pract 6. Merge and Append (Adapted for Cricket Data)  
3 #  
4 =====  
5 library(dplyr) # Loads the necessary library for data manipulation  
6  
7 #  
8 # 1. SETUP: Load Your Actual Data  
9 #  
10  
11 # *** UPDATED TO USE YOUR FILE PATH ***  
12 cricket_data <- read.csv("D:/Haris126/Fastest Fifties - 2018.csv")  
13  
14 # Use head() on the loaded data to show the first few rows were successfully read  
15 print("---- Main Data Loaded (First 6 Rows) ----")  
16 print(head(cricket_data))  
17  
18 # Prepare subsets for the APPEND example:  
19 batch_1 <- head(cricket_data, 5)  
20  
21 # Batch 2: Next 5 records (Rows 6 through 10)  
22 # Note: Ensure your CSV has at least 10 rows for this to work perfectly.  
23 batch_2 <- cricket_data[6:10, ]  
24  
25 # Dataset 3: Team Names Table (To practice Merging)  
26 # This table includes common team abbreviations from your data  
27 team_lookup <- data.frame(  
28   Against = c("CSK", "MI", "KKR", "DC", "RCB", "SRH", "PBKS", "RR"),  
29   Full_Team_Name = c("Chennai Super Kings", "Mumbai Indians",  
30                     "Kolkata Knight Riders", "Delhi Capitals",  
31                     "Royal Challengers Bangalore", "Sunrisers Hyderabad",  
32                     "Punjab Kings", "Rajasthan Royals")  
33 )  
34  
35 # =====  
36  
37 # 2. APPEND (Stacking Rows)  
38 # Goal: Combine two different sections of the main dataset vertically.  
39 final_player_list <- bind_rows(batch_1, batch_2)  
40  
41 print("---- Appended Data (Rows 1-10 combined) ----")  
42 print(head(final_player_list))  
43  
44 # =====  
45 # 3. MERGE (Joining columns)  
46 #  
47 # Goal: Add a new column (Full_Team_Name) to the main dataset by matching  
48 # the common column 'Against' (the team abbreviation).  
49 merged_data <- merge(cricket_data, team_lookup, by = "Against", all.x = TRUE)  
50  
51 print("---- Merged Data (Full Team Names Added) ----")  
52 # Using head() to keep the output clean, showing the new 'Full_Team_Name' column  
53 print(head(merged_data))  
54  
55  
56
```

OUTPUT:-

Hariprasad Vishwakarma
S126
SYCS

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```
RStudio
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Go to file/function Addins
Project: (None)

Source
Console Terminal Background Jobs
R - R4.1.2 - ~/
>
> print(head(cricket_data))
  POS   Player Runs BF X4s X5s Against Venue Match.Date
1  1    KL Rahul  51 14  6  4    DC   IS Bindra Stadium 08 April 2018
2  2 Ishan Kishan  62 17  5  6    KKR   Eden Gardens    09 May 2018
3  3 Sunil Narine  50 17  4  5    RCB   Eden Gardens    08 April 2018
4  4 Jos Buttler  67 18  4  7    DC   Arun Jaitley Stadium 02 May 2018
5  5 Sam Billings  56 21  2  5    KKR   Chidambaram    10 April 2018
6  6 KL Rahul    66 22  2  7    KKR   Holkar Cricket Stadium 12 May 2018
> # Dataset 3: Team Names Table (To practice Merging)
> # This table includes common team abbreviations from your data
> team_lookup <- data.frame(
+   Against = c("CSK", "MI", "KKR", "DC", "RCB", "SRH", "PBKS", "RR"),
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+ )
> print("--- Appended Data (Rows 1-10 combined) ---")
[1] "--- Appended Data (Rows 1-10 combined) ---"
> print(final_player_list)
Error in print(final_player_list) : object 'final_player_list' not found

> # -----
> # 3. MERGE (Joining columns)
> # -----
> # Goal: Add a new column (Full_Team_Name) to the main dataset by matching
> # the common column 'Against' (the team abbreviation).
> 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, showing the new 'Full_Team_Name' column
> print(head(merged_data))
  Against POS   Player Runs BF X4s X5s
1    CSK  12 AB de Villiers  68 23  2  8
2    CSK  20 Jos Buttler    95 26 11  2
3    CSK  33 Vijay Shankar  54 28  1  5
4    CSK  85 Kane Williamson 51 37  5  2
5    CSK  54 Shubman Gill   57 32  6  2
6    CSK  89 Shikhar Dhawan  79 38 10  3
  Venue Match.Date Full_Team_Name
1 M. Chinnaswamy Stadium 25 April 2018 Chennai Super Kings
2 Sawai Mansingh Stadium 11 May 2018 Chennai Super Kings
3 Maharashtra Cricket Association's International Stadium 30 April 2018 Chennai Super Kings
4 Maharashtra Cricket Association's International Stadium 13 May 2018 Chennai Super Kings
5 Eden Gardens 03 May 2018 Chennai Super Kings
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>

Environment History Connections Tutorial
R - Global Environment
cricket_data 106 obs. of 9 variables
data_feb 3 obs. of 3 variables
data_jan 3 obs. of 3 variables
data_new_hires 2 obs. of 3 variables
Fastest.Fiftie... 107 obs. of 9 variables
merged_data 106 obs. of 10 variables
Retail.Product 4362 obs. of 5 variables
team_lookup 8 obs. of 2 variables

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.Rhistory 184 B Dec 1, 2025, 10:49 AM
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example.html 167 B Aug 2, 2025, 10:37 AM
fuel_sales.csv 768 B Sep 18, 2025, 8:53 AM
GIS DataBase
IISExpress
My Music
My Pictures
My Videos
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R
SM PRACTICAL - II 20.txt 1.2 KB Aug 22, 2025, 3:02 PM
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