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

OUTPUT:-

Hariprasad Vishwakarma
S126
SYCS

RStudio screenshot 1:

```
> print(head(cricket_data))
  POS      Player Runs BF X4s X6s 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   22  2   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"),
+   Full_Team_Name = c("Chennai Super Kings", "Mumbai Indians",
+                      "Kolkata Knight Riders", "Delhi Capitals",
+                      "Royal Challengers Bangalore", "Sunrisers Hyderabad",
+                      "Punjab Kings", "Rajasthan Royals")
+ )
> 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 X6s
1     CSK  12  AB de Villiers  68 23   2   8
```

Environment panel (1):
Object	Description
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

Files panel (1):
	Name	Size	Modified
	Home		
	.Rhistory	184 B	Dec 1, 2025, 10:49 AM
	BackgroundShaker.cs	658 B	Aug 1, 2025, 9:17 AM
	Custom Office Templates		
	desktop.ini	402 B	Sep 3, 2025, 9:39 AM
	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		
	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

RStudio screenshot 2:

```
+   Against = c("CSK", "MI", "KKR", "DC", "RCB", "SRH", "PBKS", "RR"),
+   Full_Team_Name = c("Chennai Super Kings", "Mumbai Indians",
+                      "Kolkata Knight Riders", "Delhi Capitals",
+                      "Royal Challengers Bangalore", "Sunrisers Hyderabad",
+                      "Punjab Kings", "Rajasthan Royals")
+ )
> 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 X6s
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
6 Maharashtra Cricket Association's International Stadium 13 May 2018 Chennai Super Kings
>
```

Environment panel (2):
Object	Description
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

Files panel (2):
	Name	Size	Modified
	Home		
	.Rhistory	184 B	Dec 1, 2025, 10:49 AM
	BackgroundShaker.cs	658 B	Aug 1, 2025, 9:17 AM
	Custom Office Templates		
	desktop.ini	402 B	Sep 3, 2025, 9:39 AM
	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		
	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

Hariprasad Vishwakarma
S126
SYCS