

# SHETH L.U.J AND SIR M.V COLLEGE

Aim: Combining and appending datasets using merge() or bind\_rows() in R

The screenshot displays the RStudio interface with the following components:

- Source Panel:** Contains R code for creating three data frames: `data_jan`, `data_feb`, and `data_new_hires`. It also includes print statements to verify the data.
- Console Panel:** Shows the execution output of the code, displaying the structure and content of the data frames.
- Environment Panel:** Lists the objects in the global environment, including `data_jan`, `data_feb`, and `data_new_hires`.
- Files Panel:** Shows the file explorer with various files and folders.

The code in the Source Panel is as follows:

```
R - R 4.5.2 - / - /  
> library(dplyr)  
> data_jan <- data.frame(  
+   Id = c(12,13,14,15,16),  
+   Name = c("Nishita", "Simran", "Siya", "Nandini", "Riya"),  
+   Jan_sales = c(1000,2000,3000,4000,5000)  
+ )  
> data_feb <- data.frame(  
+   Id = c(12,13,14,15,16),  
+   Name = c("Nishita", "Simran", "Siya", "Nandini", "Riya"),  
+   Jan_sales = c(100,200,300,450,500)  
+ )  
> data_new_hires <- data.frame(  
+   ID = c(4,5),  
+   Name = c("Selvesh", "Shivam"),  
+   Jan_sales = c(40,40)  
+ )  
> print("---- Data January ----")  
[1] "---- Data January ----"  
> print(data_jan)  
  Id   Name Jan_sales  
1 12 Nishita    1000  
2 13 Simran    2000  
3 14 Siya     3000  
4 15 Nandini  4000  
5 16 Riya     5000  
> print("---- Data February ----")  
[1] "---- Data February ----"  
> print(data_feb)  
  Id   Name Jan_sales  
1 12 Nishita     100  
2 13 Simran     200  
3 14 Siya       300  
4 15 Nandini   450  
5 16 Riya       500  
> print("Yukta Sonawane S120")  
[1] "Yukta Sonawane S120"
```

The Console Panel shows the output of the code, including the structure of the data frames and the print statements.

The Environment Panel shows the objects in the global environment, including `data_jan`, `data_feb`, and `data_new_hires`.

The Files Panel shows the file explorer with various files and folders.

The code in the Source Panel is as follows:

```
R - R 4.5.2 - / - /  
[1] "---- Data January ----"  
> print(data_jan)  
  Id   Name Jan_sales  
1 12 Nishita    1000  
2 13 Simran    2000  
3 14 Siya     3000  
4 15 Nandini  4000  
5 16 Riya     5000  
> print("---- Data February ----")  
[1] "---- Data February ----"  
> print(data_feb)  
  Id   Name Jan_sales  
1 12 Nishita     100  
2 13 Simran     200  
3 14 Siya       300  
4 15 Nandini   450  
5 16 Riya       500  
> print("Yukta Sonawane S120")  
[1] "Yukta Sonawane S120"  
>  
> merged_data <- merge(data_jan, data_feb, by = c("ID", "Name"))  
Error in fix.by(by.x, x) : 'by' must specify a uniquely valid column  
> final_list <- bind_rows(data_jan, data_new_hires)  
>  
> print("---- Appended Data (Rows Added) ----")  
[1] "---- Appended Data (Rows Added) ----"  
> print(final_list)  
  Id   Name Jan_sales ID  
1 12 Nishita    1000 NA  
2 13 Simran    2000 NA  
3 14 Siya     3000 NA  
4 15 Nandini  4000 NA  
5 16 Riya     5000 NA  
6 NA Selvesh     40  4  
7 NA Shivam     40  5  
>
```

The Console Panel shows the output of the code, including the structure of the data frames and the print statements.

The Environment Panel shows the objects in the global environment, including `data_jan`, `data_feb`, and `data_new_hires`.

The Files Panel shows the file explorer with various files and folders.

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