

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

Subject: Data Analysis with SAS / SPSS /R

## Practical no. 6

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

**Outputs→**



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Source

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```
R - R 4.5.2 · ~/r
> library(dplyr)
> #
> # 1. SETUP: Create Two Simple Datasets
> #
> # Dataset 1: FOOD_DELIVERY dataset
> data_food <- data.frame(
+   order_id = c(101, 102, 103),
+   distance_km = c(2.5, 4.1, 3.2),
+   delivery_time_min = c(25, 35, 30),
+   traffic_level = c("Low", "High", "Medium"),
+   route_length_km = c(2.8, 4.4, 3.5),
+   delivery_mode = c("Bike", "Car", "Bike"),
+   weather = c("Clear", "Rainy", "Cloudy"),
+   order_time = c("12:30", "14:15", "16:40"),
+   restaurant_zone = c("North", "East", "West"),
+   customer_zone = c("North", "East", "West")
+ )
> # Dataset 2: SALES dataset
> data_sales <- data.frame(
+   Product_ID = c(101, 102, 104),
+   Sale_Date = c("2024-01-05", "2024-01-08", "2024-01-10"),
+   Sales_Rep = c("Amit", "Riya", "Neha"),
+   Region = c("North", "East", "South"),
+   Sales_Amount = c(1200, 1500, 1800),
+   Quantity_Sold = c(5, 8, 10),
+   Product_Category = c("Food", "Grocery", "Beverage"),
+   Unit_Cost = c(100, 120, 150),
+   Unit_Price = c(240, 280, 300),
+   Customer_Type = c("Regular", "New", "Regular"),
+   Discount = c(10, 5, 15),
+   Payment_Method = c("Online", "Cash", "Online"),
+   Sales_Channel = c("store", "Online", "store"),
+   Region_and_Sales_Rep = c("North-Amit", "East-Riya", "South-Neha")
+ )
> print("--- Food Delivery Data ---")
[1] "--- Food Delivery Data ---"
> print(data_food)
order_id distance_km delivery_time_min traffic_level route_length_km
```

Environment History Connections Tutorial

data\_sales 3 obs. of 14 variables  
elite\_days 113 obs. of 4 variables  
file1 2 obs. of 1 variable  
final\_list 5 obs. of 10 variables  
Food\_Delivery\_Ro... 200 obs. of 10 variables  
high\_close\_selec... 113 obs. of 5 variables  
high\_sorted\_low 113 obs. of 7 variables  
high\_specific 1 obs. of 7 variables  
merged\_data 2 obs. of 23 variables

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```
R - R 4.5.2 - ~/r
+ Sales_Channel = c("Store", "Online", "store",'
+ Region_and_Sales_Rep = c("North-Amit", "East-Riya", "South-Neha")
+ )
> print("---- Food Delivery Data ---")
[1] "---- Food Delivery Data ---"
> print(data_food)
order_id distance_km delivery_time_min traffic_level route_length_km
1 101 2.5 25 Low 2.8
2 102 4.1 35 High 4.4
3 103 3.2 30 Medium 3.5
delivery_mode weather order_time restaurant_zone customer_zone
1 Bike Clear 12:30 North North
2 Car Rainy 14:15 East East
3 Bike Cloudy 16:40 West West
> print("---- Sales Data ---")
[1] "---- Sales Data ---"
> print(data_sales)
Product_ID Sale_Date Sales_Rep Region Sales_Amount Quantity_Sold
1 101 2024-01-05 Amit North 1200 5
2 102 2024-01-08 Riya East 1500 8
3 104 2024-01-10 Neha South 1800 10
Product_Category Unit_Cost Unit_Price Customer_Type Discount Payment_Method
1 Food 100 240 Regular 10 Online
2 Grocery 120 280 New 5 Cash
3 Beverage 150 300 Regular 15 online
Sales_Channel Region_and_Sales_Rep
1 Store North-Amit
2 Online East-Riya
3 Store South-Neha
> merged_data <- merge(
+ data_food,
+ data_sales,
+ by.x = "order_id",
+ by.y = "Product_ID"
+ )
> print("---- Merged Data (Food + Sales) ---")
[1] "---- Merged Data (Food + Sales) ---"
> print(merged_data)
```

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Import Dataset Global Environment 65 MB

data\_sales 3 obs. of 14 variables  
elite\_days 113 obs. of 4 variables  
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final\_list 5 obs. of 10 variables  
Food\_Delivery\_Ro... 200 obs. of 10 variables  
high\_close\_selec... 113 obs. of 5 variables  
high\_sorted\_low 113 obs. of 7 variables  
high\_specific 1 obs. of 7 variables  
merged\_data 2 obs. of 23 variables

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Console Terminal Background Jobs

```
R - R 4.5.2 - ~/r
+ by.x = "order_id",
+ by.y = "Product_ID"
+
> print("---- Merged Data (Food + Sales) ---")
[1] "---- Merged Data (Food + Sales) ---"
> print(merged_data)
order_id distance_km delivery_time_min traffic_level route_length_km
1 101 2.5 25 Low 2.8
2 102 4.1 35 High 4.4
delivery_mode weather order_time restaurant_zone customer_zone Sale_Date
1 Bike Clear 12:30 North North 2024-01-05
2 Car Rainy 14:15 East East
Rep Region Sales_Amount Quantity_Sold Product_Category Unit_Cost
1 Amit North 1200 5 Food 100
2 Riya East 1500 8 Grocery 120
Unit_Price Customer_Type Discount Payment_Method Sales_Channel
1 240 Regular 10 Online Store
2 280 New 5 Cash Online
Region_and_Sales_Rep
1 North-Amit
2 East-Riya
> final_list <- bind_rows(data_food, new_food_orders)
> print("---- Appended Data (Food + New Orders) ---")
[1] "---- Appended Data (Food + New Orders) ---"
> print(final_list)
order_id distance_km delivery_time_min traffic_level route_length_km
1 101 2.5 25 Low 2.8
2 102 4.1 35 High 4.4
3 103 3.2 30 Medium 3.5
4 104 5.2 40 High 5.5
5 105 3.5 28 Low 3.8
delivery_mode weather order_time restaurant_zone customer_zone
1 Bike Clear 12:30 North North
2 Car Rainy 14:15 East East
3 Bike Cloudy 16:40 West West
4 Car Rainy 18:20 South South
5 Bike Clear 19:05 North North
>
```

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Import Dataset Global Environment 7 MiB

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