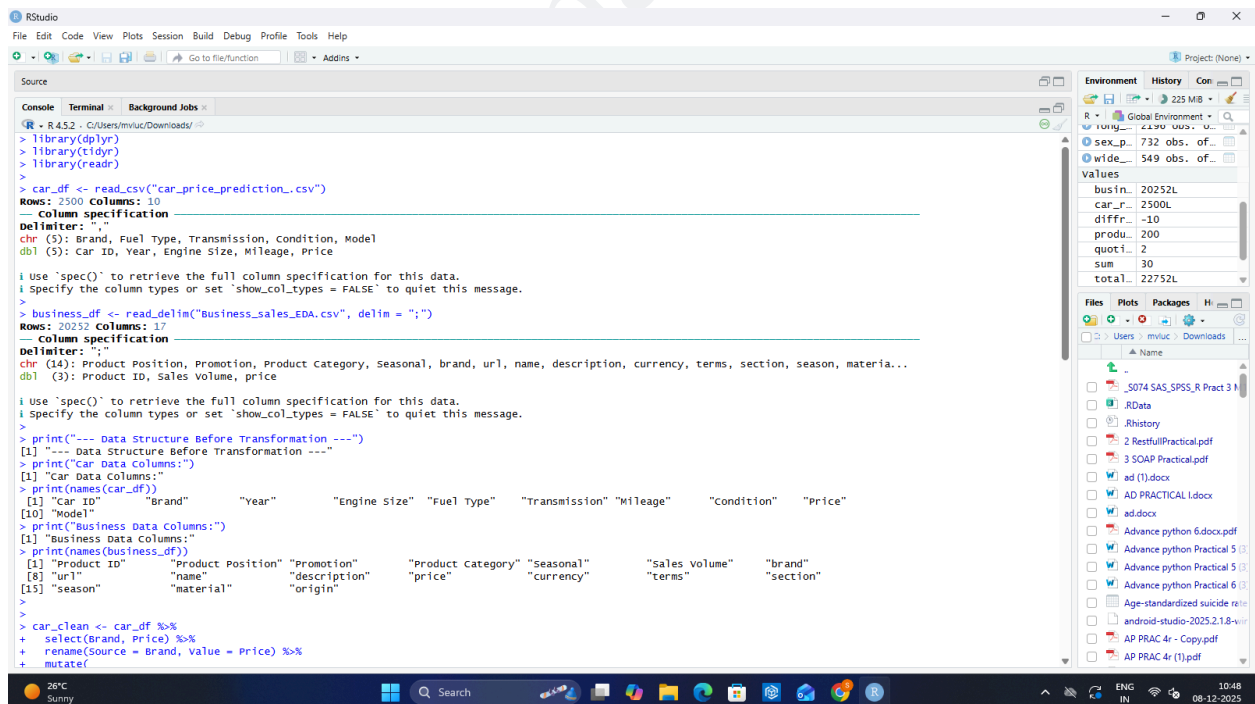


SHETH L.U.J AND SIR M.V. COLLEGE
SUBJECT NAME: DATA ANALYSIS WITH SAS/SPSS/R

Module 1 Practical 12

Aim: Combining datasets vertically (concatenation) using rbind() (R).

OUTPUT:



```
R - R 4.5.2 - C:/Users/mvut/Downloads/
File Edit Code View Plots Session Build Debug Profile Tools Help
Source
Console Terminal Background Jobs
> library(dplyr)
> library(tidyverse)
> library(readr)
>
> car_df <- read_csv("car_price_prediction_.csv")
Rows: 2500 Columns: 10
Column specification:
  chr (5): Brand, Fuel Type, Transmission, Condition, Model
  dbl (5): Car ID, Year, Engine Size, Mileage, Price
i use 'spec()' to retrieve the full column specification for this data.
i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
> business_df <- read_delim("Business_sales_EDA.csv", delim = ";")
Rows: 20252 Columns: 17
Column specification:
  chr (14): Product Position, Promotion, Product Category, Seasonal, brand, url, name, description, currency, terms, section, season, materia...
  dbl (3): Product ID, Sales volume, price
i use 'spec()' to retrieve the full column specification for this data.
i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
> print("---- Data Structure Before Transformation ----")
[1] ---- Data Structure Before Transformation ----
> print("Car data columns:")
[1] "Car data columns:"
> print(names(car_df))
[1] "Car ID" "Brand" "Year" "Engine Size" "Fuel Type" "Transmission" "Mileage" "Condition" "Price"
[10] "Model"
> print("Business data columns:")
[1] "Business data columns:"
> print(names(business_df))
[1] "Product ID" "Product Position" "Promotion" "Product Category" "Seasonal" "Sales volume" "brand"
[8] "url" "name" "description" "price" "currency" "terms" "section"
[15] "season" "material" "origin"
>
>
> car_clean <- car_df %>%
+ select(Brand, Price) %>%
+ rename(Source = Brand, value = Price) %>%
+ mutate()
```

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

SUBJECT NAME: DATA ANALYSIS WITH SAS/SPSS/R

```
Source
Console Terminal Background Jobs
R - R 4.5.2 - C:/Users/mvuc/Downloads/
>
> car_clean <- car_df %>%
+ select(Brand, Price) %>%
+ rename(Source = Brand, value = Price) %>%
+ mutate(
+   Dataset = "Car",
+   value = as.numeric(value)
+ ) %>%
+ filter(!is.na(value))
>
> business_clean <- business_df %>%
+ select(Brand, Price) %>%
+ rename(Source = Brand, value = Price) %>%
+ mutate(
+   Dataset = "Business",
+   value = as.numeric(value)
+ ) %>%
+ filter(!is.na(value))
>
> combined_data <- rbind(car_clean, business_clean)
>
> car_rows <- nrow(car_clean)
> business_rows <- nrow(business_clean)
> total_rows <- nrow(combined_data)
>
> print("---- Combined Data Summary ----")
[1] "---- Combined Data Summary ----"
> print(paste("Car rows:", car_rows))
[1] "Car rows: 2500"
> print(paste("Business rows:", business_rows))
[1] "Business rows: 20252"
> print(paste("Total rows (Expected):", car_rows + business_rows))
[1] "Total rows (Expected): 22752"
> print(paste("Total rows (Actual):", total_rows))
[1] "Total rows (Actual): 22752"
>
> print("---- Preview of Combined Data (Top - Car Data) ----")
[1] "---- Preview of Combined Data (Top - Car Data) ----"
> print(head(combined_data))
# A tibble: 6 x 3
  Source Value Dataset
1      26614.   Car
2      14680.   Car
3      44403.   Car
4      86374.   Car
5      22577.   Car
6      88970.   Car
>
```

Environment History Console

R - Global Environment
car_clean 732 obs. of
business_clean 549 obs. of
values
busin... 20252L
car_r... 2500L
diff... ~10
produ... 200
quot... 2
sum 30
total... 22752L

Files Plots Packages Help

Users mvuc Downloads

Name

- ._S074 SAS_SPSS_R Pract 3 t
- RData
- Rhistory
- 2 RestfullPractical.pdf
- 3 SOAP Practical.pdf
- ad (1).docx
- AD PRACTICAL 1.docx
- ad.docx
- Advance python 6.docx.pdf
- Advance python Practical 5 (3
- Advance python Practical 5 (3
- Advance python Practical 6 (3
- Age-standardized suicide rate
- android-studio-2025.2.1.8-wi
- AP PRAC 4r - Copy.pdf
- AP PRAC 4r (1).pdf

26°C Sunny

Search

10:49 08-12-2025

```
Source
Console Terminal Background Jobs
R - R 4.5.2 - C:/Users/mvuc/Downloads/
>
> car_rows <- nrow(car_clean)
> business_rows <- nrow(business_clean)
> total_rows <- nrow(combined_data)
>
> print("---- Combined Data Summary ----")
[1] "---- Combined Data Summary ----"
> print(paste("Car rows:", car_rows))
[1] "Car rows: 2500"
> print(paste("Business rows:", business_rows))
[1] "Business rows: 20252"
> print(paste("Total rows (Expected):", car_rows + business_rows))
[1] "Total rows (Expected): 22752"
> print(paste("Total rows (Actual):", total_rows))
[1] "Total rows (Actual): 22752"
>
> print("---- Preview of Combined Data (Top - Car Data) ----")
[1] "---- Preview of Combined Data (Top - Car Data) ----"
> print(head(combined_data))
# A tibble: 6 x 3
  Source Value Dataset
1 Tesla 26614. Car
2 BMW 14680. Car
3 Audi 44403. Car
4 Tesla 86374. Car
5 Ford 22577. Car
6 Audi 88970. Car
>
> print("---- Preview of Combined Data (Bottom - Business Data) ----")
[1] "---- Preview of Combined Data (Bottom - Business Data) ----"
> print(tail(combined_data))
# A tibble: 6 x 3
  Source Value Dataset
1 Zara 49.0 Business
2 Zara 32.0 Business
3 Zara 50.0 Business
4 Zara 21.0 Business
5 Zara 65.0 Business
6 Zara 65.0 Business
>
```

Environment History Console

R - Global Environment
car_clean 732 obs. of
business_clean 549 obs. of
values
busin... 20252L
car_r... 2500L
diff... ~10
produ... 200
quot... 2
sum 30
total... 22752L

Files Plots Packages Help

Users mvuc Downloads

Name

- ._S074 SAS_SPSS_R Pract 3 t
- RData
- Rhistory
- 2 RestfullPractical.pdf
- 3 SOAP Practical.pdf
- ad (1).docx
- AD PRACTICAL 1.docx
- ad.docx
- Advance python 6.docx.pdf
- Advance python Practical 5 (3
- Advance python Practical 5 (3
- Advance python Practical 6 (3
- Age-standardized suicide rate
- android-studio-2025.2.1.8-wi
- AP PRAC 4r - Copy.pdf
- AP PRAC 4r (1).pdf

26°C Sunny

Search

10:49 08-12-2025