

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

Aim: Combining datasets vertically (concatenation) using rbind() (R).
Write code toCombining datasets vertically (concatenation) using rbind() in R studio.

```

R Studio
File Edit Code View Plots Session Build Debug Profile Tools Help
Source
Console Background Jobs
[R - R 4.52 - ~/]
> lung_df <- read.csv("C:/Users/mvluc/downloads/survey_lung_cancer.csv",
+   na.strings = c("", "NA"))
>
> weight_df <- read.csv("C:/Users/mvluc/downloads/weight-height.csv",
+   na.strings = c("", "NA"))
>
> print("---- Data Structure Before Transformation ---")
[1] "---- Data Structure Before Transformation ---"
> print(names(lung_df))
[1] "GENDER"          "AGE"           "SMOKING"
[4] "YELLOW_FINGERS" "ANXIETY"        "PEER_PRESSURE"
[7] "CHRONIC.DISEASE" "FATIGUE"        "ALLERGY"
[10] "CHEST.PAIN"      "ALCOHOL.CONSUMING" "COUGHING"
[13] "SHORTNESS.OF.BREATH" "SWALLOWING.DIFFICULTY" "CHEST.PAIN"
[16] "LUNG.CANCER"
> print(names(weight_df))
[1] "Gender" "Height" "weight"
>
> lung_clean <- lung_df[, c("GENDER", "AGE")]
> names(lung_clean) <- c("Gender", "value")
> lung_clean$source <- "Age (Lung survey)"
>
> weight_clean <- weight_df[, c("Gender", "Height")]
> names(weight_clean) <- c("Gender", "Value")
> weight_clean$source <- "Height (weight-height)"
>
> lung_clean$value <- as.numeric(lung_clean$value)
> weight_clean$Value <- as.numeric(weight_clean$Value)
>
> combined_data <- rbind(lung_clean, weight_clean)
>
> print("---- combined data summary ---")
[1] "---- combined data summary ---"
> print(paste("Lung rows:", nrow(lung_clean)))
[1] "Lung rows: 309"
> print(paste("Weight rows:", nrow(weight_clean)))
[1] "Weight rows: 10000"
> print(paste("Total rows (Expected):", nrow(lung_clean) + nrow(weight_clean)))
[1] "Total rows (Expected): 10309"
> print(paste("Total rows (Actual):", nrow(combined_data)))
[1] "Total rows (Actual): 10309"
  
```

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```

R Studio
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Source
Console Background Jobs
[R - R 4.52 - ~/]
> weight_clean$source <- "Height (weight-height)"
>
> lung_clean$value <- as.numeric(lung_clean$value)
> weight_clean$Value <- as.numeric(weight_clean$Value)
>
>
> combined_data <- rbind(lung_clean, weight_clean)
>
> print("---- combined data summary ---")
[1] "---- combined data summary ---"
> print(paste("Lung rows:", nrow(lung_clean)))
[1] "Lung rows: 309"
> print(paste("Weight rows:", nrow(weight_clean)))
[1] "Weight rows: 10000"
> print(paste("Total rows (Expected):", nrow(lung_clean) + nrow(weight_clean)))
[1] "Total rows (Expected): 10309"
> print(paste("Total rows (Actual):", nrow(combined_data)))
[1] "Total rows (Actual): 10309"
>
> print("---- PREVIEW of combined data (Top and Bottom) ---")
[1] "---- Preview of Combined data (Top and Bottom) ---"
> print(head(combined_data))
  
```

Gender	value	source
1 M	69	Age (Lung Survey)
2 M	74	Age (Lung Survey)
3 F	59	Age (Lung Survey)
4 M	63	Age (Lung Survey)
5 F	63	Age (Lung Survey)
6 F	75	Age (Lung Survey)

```

> print(tail(combined_data))
  
```

Gender	value	source
10304 Female	59.09832	Height (weight-height)
10305 Female	66.17265	Height (weight-height)
10306 Female	67.06715	Height (weight-height)
10307 Female	63.86799	Height (weight-height)
10308 Female	69.03424	Height (weight-height)
10309 Female	61.94425	Height (weight-height)

```

> print("Yukta Sonawane S120")
[1] "Yukta Sonawane S120"
  
```

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