

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

Aim: Reshaping data using pivot_longer() and pivot_wider() (R).

The screenshot shows the RStudio interface with the following details:

- Top Bar:** RStudio, File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help.
- Source Panel:** Shows R code and its output. The code reads a CSV file 'lung cancer.csv' and performs several data manipulations:
 - Creates a tibble 'df' from the CSV.
 - Prints the original data (selected columns).
 - Creates a subset 'df_selected' containing GENDER, AGE, SMOKING, ANXIETY, and PEER_PRESSURE.
 - Prints the head of 'df_selected'.
 - Prints the head of 'df_selected' again.
 - Converts the wide format to long format using pivot_longer().
 - Prints the long format data.
 - Prints the head of the long format data.
 - Prints the status of the long format data.
- Environment Tab:** Shows the global environment with objects like category, df, df_full, df_select_, long_df, report_df, survey_lu, and wide_df.
- File Browser:** Shows files in the 'Downloads' folder, including various PDFs and Python practice files.
- Bottom Status Bar:** Shows battery level (9.9%), signal strength (-0.96%), ENG IN, and a timestamp (08-12-2025).

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

Source

Console Background Jobs

R 4.5.2 ~

```
library(dplyr)
# Load the dataset
dat = read.csv("HealthBehaviorReport.csv")
# Filter rows where n > 1L
wide_df = dplyr::filter(dat, n > 1L)

# Print the first 3 rows of the wide format data
print(wide_df[1:3])
# Print the head of the wide format data
print(head(wide_df))

# A tibble: 6 x 5
#>   GENDER   AGE   SMOKING   ANXIETY   PEER_PRESSURE
#>   <chr>   <dbl>   <dbl>     <dbl>       <dbl>
#> 1 M        69      0.00    0.00      0.00
#> 2 M        74      0.40    0.40      0.40
#> 3 F        59      0.80    0.80      0.80
#> 4 M        63      0.12    0.12      0.12
#> 5 F        63      0.70    0.70      0.70
#> 6 F        75      0.30    0.30      0.30

#-----#
# CREATE A SMALL REPORT
#-----#
report_df <- df_selected %>%
  group_by(GENDER) %>%
  summarise(
    Avg_Age = mean(AGE, na.rm = TRUE),
    Smoking_Count = sum(SMOKING == 2, na.rm = TRUE),
    Anxiety_Count = sum(ANXIETY == 2, na.rm = TRUE),
    Peer_Pressure_Count = sum(Peer_Pressure == 2, na.rm = TRUE)
  )

# Print the first 4 rows of the Health Behavior Report
print(report_df[1:4])
# Print the report as a PDF
print(report_df)

# A tibble: 2 x 5
#>   GENDER Avg_Age Smoking_Count Anxiety_Count Peer_Pressure_Count
#>   <chr>   <dbl>       <dbl>       <dbl>           <dbl>
#> 1 F        62.5        80          85            95
#> 2 M        62.8        94          69            60

# Print the file path
print("yukta.sonawane.S120")
#> [1] "yukta.sonawane.S120"
```

Environment History Connections Tutorial

Project: (None)

Data

category_	n
df	309 obs. of 16 variables
df_full	309 obs. of 16 variables
df_select	309 obs. of 5 variables
long_df	927 obs. of 4 variables
report_df	2 obs. of 5 variables
survey_lu	309 obs. of 16 variables
wide_df	70 obs. of 5 variables

Values

group1	group2	install_p	sample_da
num [1:9]	26 25 10 34 23 28	num [1:9]	22 24 19 31 27 21
group2		"bada"	
install_p			
sample_da			
tn			

Files Plots Packages Help Viewer Presentation

C:\Users\imvuc\Downloads

Name	Size	Modified
8th R.pdf	209.3 KB	2025-08-12 11:11:20
9th R.pdf	234.6 KB	2025-08-12 11:11:20
10th R.pdf	298.4 KB	2025-08-12 11:11:20
ADVANCED PYTHON FOR DS PRACTIC	3 MB	2025-08-12 11:11:20
ADVANCED PYTHON FOR DS PRACTIC	824.3 KB	2025-08-12 11:11:20
ADVANCED PYTHON FOR DS PRACTIC	2.6 MB	2025-08-12 11:11:20
ADVANCED PYTHON FOR DS PRACTIC	583.6 KB	2025-08-12 11:11:20
ADVANCED PYTHON FOR DS PRACTIC	2.5 MB	2025-08-12 11:11:20
ADVANCED PYTHON FOR DS PRACTIC	648.9 KB	2025-08-12 11:11:20
android_prac1.docx	2.2 MB	2025-08-12 11:11:20
archive (1)		
archive (1).zip	83.1 KB	2025-08-12 11:11:20

File Explorer

File Search

System Icons

ENG IN 08-12-2025 11:11