

PRACTICAL NO 3

AIM: Creating cross-tabulations and two-way tables using `table()` (R).

The screenshot shows the RStudio interface with the following details:

- File Menu:** File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help.
- Project:** Project (None)
- Console:** R - R 4.5.2 -的心理包 (run once) > install.packages("psych")
WARNING: Rtools is required to build R packages but is not currently installed. Please download and install the appropriate version of Rtools before proceeding.
https://cran.rstudio.com/bin/windows/Rtools/
Installing package into 'C:/Users/ASUS/AppData/Local/r/win-library/4.5'
(as 'lib' is unspecified)
also installing the dependencies 'mnorm', 'GPAratation'
trying URL 'https://cran.rstudio.com/bin/windows/contrib/4.5/mnorm_2.1.1.zip'
trying URL 'https://cran.rstudio.com/bin/windows/contrib/4.5/GPAratation_2025.3-1.zip'
trying URL 'https://cran.rstudio.com/bin/windows/contrib/4.5/psych_2.5.6.zip'
package 'mnorm' successfully unpacked and MD5 sums checked
package 'GPAratation' successfully unpacked and MD5 sums checked
package 'psych' successfully unpacked and MD5 sums checked
- Data View:** Shows various datasets:
 - df: 20000 obs. of 15 variables
 - employee_salary_dataset: 50 obs. of 9 variables
 - exams: 1000 obs. of 8 variables
 - flipkart_com_ecommerce_sa: 20000 obs. of 15 variables
 - prep_df: 2 obs. of 2 variables
 - superstore: 51290 obs. of 27 variables
 - t_test_one: List of 10
 - t_test_two: List of 10
- Values View:** Shows data frames:
 - courses_Counts: 'table' int [0 :10]
 - courses_Freq: 'table' int [1:14(1:D)] 8963 12748 9682 6385 4882 3020 2385 1361 987 276 ...
 - crossTab: 'table' int [1:2, 1:3] 11 51 166 393 158 221
- File Explorer:** Shows files in the current directory:
 - New Folder
 - New Plot
 - Packages
 - Help
 - Viewer
 - Presentation
 - Home
 - R
 - Name
 - Size
 - Modified
 - employee_salary_dataset.csv
 - exams.csv
 - flipkart_com_ecommerce_sample.csv
 - superstore.csv
- Bottom Status Bar:** ENG IN 22:08 15-12-2023
- Bottom Navigation:** Home, Search, Task View, File, Edit, View, Plots, Session, Build, Debug, Profile, Tools, Help.
- Bottom Right:** Activate Windows, Go to Settings to activate Windows.

The screenshot shows the RStudio interface with the following details:

- Top Bar:** File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help.
- Source Editor:** Displays R code for data manipulation and analysis, including reading datasets and performing various operations like filtering and summarizing.
- Environment View:** Shows the global environment with objects like `df`, `employee_salary_dataset`, `exams`, `flipkart_com_ecommerce_sa`, `prep_df`, `superstore`, `t.test_one`, `t.test_two`, and `values`.
- Data View:** Provides a summary of data frames:
 - `df`: 20000 obs. of 15 variables
 - `employee_salary_dataset`: 50 obs. of 9 variables
 - `exams`: 1000 obs. of 8 variables
 - `flipkart_com_ecommerce_sa`: 20000 obs. of 15 variables
 - `prep_df`: 2 obs. of 2 variables
 - `superstore`: 51290 obs. of 27 variables
- Values View:** Lists variables and their types:
 - `courses_counts`: 'table' int[0 (1d)]
 - `courses_freq`: 'table' int [1:14 (1d)] 8963 12748 9682 6385 4882 3020 2385 1361 987 276 ...
 - `cross_tab`: 'table' int [1:2, 1:3] 11 51 166 393 158 221
- File Explorer:** Shows files in the current directory:
 - `employee_salary_dataset.csv`: 2.8 KB
 - `exams.csv`: 701 KB
 - `flipkart_com_ecommerce_sample.csv`: 363 MB
 - `superstore.csv`: 151 MB
- Bottom Status Bar:** Shows system icons for battery, signal, and network, along with the text "Activate Windows Go to Settings to activate Windows."

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Activate Windows
Go to Settings to activate Windows.

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