R_Guru <- R(*for SAS Programmers*)
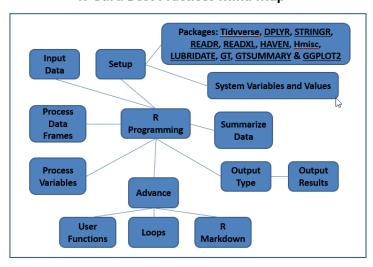
Click: Site-Map, How-To, Tasks I, Tasks II, Functions, Book, Tidyverse, Debug, Test, Exercises, Data, Pharma, Shiny, Cheat Sheets, Best Practices, Videos, FAQs

Professional R Online Learning → R Best Practices & Mentoring → Master R Hands-On Exercises → Be an R Programmer

R-Guru Best Practices Mind Map

Packages: Tidvverse, DPLYR, STRINGR, READR, READXL, HAVEN, Hmisc, LUBRIDATE, GT, GTSUMMARY & GGPLOT2

Input Data — Setup — System Variables and Values

Process Data Frames — R Programming — Summarize Data

Process Variables — Output Type — Output Results

Advance — User Functions — Loops — R Markdown

R-Guru.com *Cheat Sheet for Statistical Programmers*

This guide contains best practice examples for creating and updating tibbles in the pharma industry. Examples show common R tasks for importing data, creating data frames, direct variable referencing, piping, conditional and group processing, sql components, character and date operations, variable type conversions, transposing data frames, joining data frames, appending data frames, deriving summary variables, and creating graphs and output files. When possible, base R sample data frames are used in examples.

Mutate() has five features: case_when(), simple expression, summary functions, rowwise(), and group_by()/ungroup() with summary functions. Data utility functions describe and view data frames: View(df), str(df), summary(df), table(vr), print(df, n=), head(df), tail(df), row_number(), nrow(), ncol() and ls(). Tidyverse, DPLYR, STRINGR, READR, READXL, HAVEN, Hmisc, LUBRIDATE, GT, GTSUMMARY & GGPLOT2 packages are required. df# are data frame names & vr# are variable names. Character or numeric variables depend on the function and values. Missing and non-missing conditions: == '', == '.', != '', !='.', na.rm=TRUE .

1-on-1 Mentoring   **Student Journal**   **Weekly Videos**   **Hands-on Exercises**

Pre-Assignments	View Videos, Lesson's Outline in R-Guru.com
Lectures	Recorded Live weekly lectures, Questions and Answers
Assignments	Hands-On R Exercises, Copy/Paste/Update/Run, Papers
Discussions, Questions & Answers	Journal – Progress, Key Concepts, Fill-in, Questions
Student Presentations	5 – 8 minutes presentation or demo on one R topic

Week 1. What is R, Getting Data into R	**Week 5.** DPLYR for SQL and %>% Piping
Week 2. Create and Manage Data Frames	**Week 6.** Create SDTMs
Week 3. Join, Summarize and Format Data Frames	**Week 7.** Create AdaMs
Week 4. Tidyverse Data Management Operations	**Week 8.** Tables, Graphs