

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

## SUBJECT:Data Analysis with R

Aim: creating datasets from raw data (text files, CSV files, Excel sheets) and importing data into R

### For xls file

The screenshot shows the RStudio interface with the following details:

- File/URL:** C:/Users/itlab/Downloads/HR.xlsx
- Data Preview:** Shows the first 50 entries of the HR dataset.
- Import Options:**
  - Name: HR
  - Sheet: Default
  - Range: A1:D10
  - Max Rows: 0
  - Skip: 0
  - NA:
  - First Row as Names: checked
  - Open Data Viewer: checked
- Code Preview:**

```
library(readxl)
HR <- read_excel("C:/Users/itlab/downloads/HR.xlsx")
View(HR)
```
- Environment:** Shows the global environment with variables HR and my\_data.
- Files:** Shows the local file system with various projects and files like desktop.ini, GIS DataBase, IISExpress, My Music, My Pictures, My Videos, My Web Sites, NetBeansProjects, Power BI Desktop, S103\_Cn\_1st.pdf, scala for DS, Sound Recordings, T050\_AngaliT, vgsales.csv, Virtual Machines, Visual Studio 2022, and WindowsPowerShell.

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For text base

The screenshot shows the RStudio interface with the following details:

- File Menu:** File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help.
- Toolbar:** Includes icons for Open, Save, Print, Run, and Go to file/function.
- Import Dataset Dialog:**
  - Name: loan\_approval
  - Input File: D:\SYCS\loan\_approval.txt
  - Encoding: Automatic
  - Heading: Yes (radio button selected)
  - Row names: Automatic
  - Separator: Comma
  - Decimal: Period
  - Quote: Double ("")
  - Comment: None
  - na.strings: NA
  - String as factors: Unchecked
- Data Frame Preview:** Shows the first 20 rows of the dataset.
- Environment Tab:** Shows objects: car\_price\_p\_ (2502 obs. of 0 variables), HR (1470 obs. of 35 variables), my\_data (16598 obs. of 11 variables).
- Files Tab:** Shows various files including S103\_Cn\_1st.pdf, vgsales.csv, and loan\_approval.csv.
- Console Tab:** Displays the R code used to import the data and a message indicating 24 of 2000 entries were read.
- Top Status Bar:** Shows NIFTY +0.05%, ENG IN, and the date 24-11-2025.

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### From text reader

**Import Text Data**

File/URL: C:/Users/itlab/Desktop/Student Stress Factors.csv

**Data Preview:**

Timestamp	Kindly Rate your Sleep Quality	How many times a week do you suffer headaches	How would you rate your academic performance	how would you rate your study load?	How many times a week
27/10/2023 21:54:15	3	1	3	4	
28/10/2023 12:24:40	4	1	2	3	
28/10/2023 12:24:51	2	1	2	1	
28/10/2023 12:26:11	3	2	3	2	
28/10/2023 12:26:45	2	3	1	5	
28/10/2023 12:31:02	3	1	3	2	
28/10/2023 12:34:45	3	5	1	4	
28/10/2023 12:35:43	4	3	1	4	
28/10/2023 12:36:07	2	1	4	4	
28/10/2023 12:36:20	1	2	3	2	
28/10/2023 12:37:22	2	3	5	5	
28/10/2023 12:38:40	3	1	5	1	

Previewing first 50 entries.

**Import Options:**

- Name: Student\_Stress\_Factors
- First Row as Names
- Delimiter: Comma
- Escape: None
- Skip: 0
- Trim Spaces
- Quotes: Default
- Comment: Default
- Open Data Viewer
- Locale: Configure...
- NA: Default

**Code Preview:**

```
library(readr)
Student_Stress_Factors <- read_csv("C:/Users/itlab/Desktop/Student Stress Factors.csv")
View(Student_Stress_Factors)
```

**RStudio Environment:**

- Project: (None)
- Files: car\_price\_prediction, HR, loan\_approval, Student\_Stress\_Factors
- Environment: car\_pr..., HR, loan\_a..., my\_data, Studen...
- History: 2502 obs. of ...
- Packages: 1470 obs. of ...
- Global Environment: 2000 obs. of ...
- Help: 16598 obs. of ...
- Background Jobs: 53 obs. of ...

**Console:**

```
R > .R4.52 - / 
i Specify the column types or set `show_col_types = FALSE` to quiet this message.
> View(Student_Stress_Factors)
> 
```