

SYMBIOSIS INSTITUTE OF TECHNOLOGY, PUNE

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Founder: Prof. Dr. S. B. Mujumdar, M. Sc., Ph. D. (Awarded Padma Bhushan and Padma Shri by President of India)

| Assignment No. 03 | |
|-----------------------------|---|
| Subject: Data Science Lab | |
| Name of Student | Achyut Shukla |
| PRN No. | 20070122005 |
| Branch | CS |
| Class | A1 |
| Academic Year & Semester | 2023-24 _ 7th semester |
| Date | 11 th August |
| Title of Lab Assignment | READING AND WRITING DIFFERENT TYPES OF DATASETS |

Theory:

READING AND WRITING DIFFERENT TYPES OF DATASETS

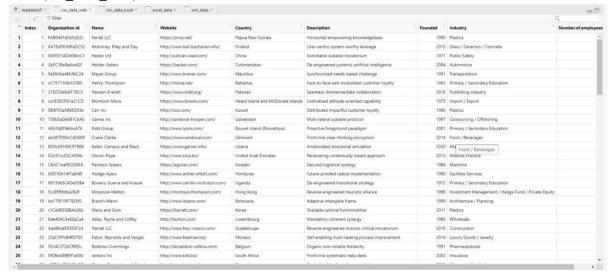
- a. Reading different types of data sets (.txt, .csv) from web and disk and writing in file in specific disk location.
- b. Reading Excel data sheet in R.
- c. Reading XML dataset in R.

Answer:

#Load csv data from web

csv_data_web <- read.csv("https://github.com/datablist/sample-csv-files/raw/main/files/organizations/organizations-100.csv")

View(csv_data_web)



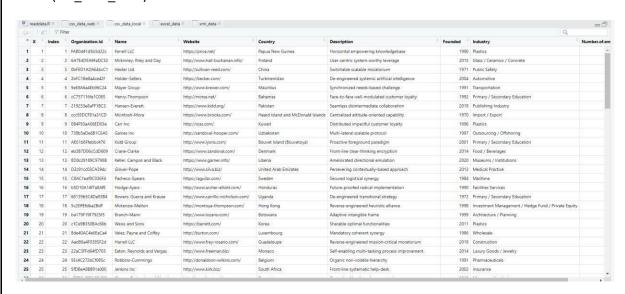
setwd('~/Documents/college/ds_lab/assignment_3/') #Save csv data to disk

write.csv(csv_data_web, 'sampledata.csv')

#Load csv data from disk csv_data_local <-

read.csv("~/Documents/college/ds lab/assignment 3/sampledata.csv")

View(csv_data_local)

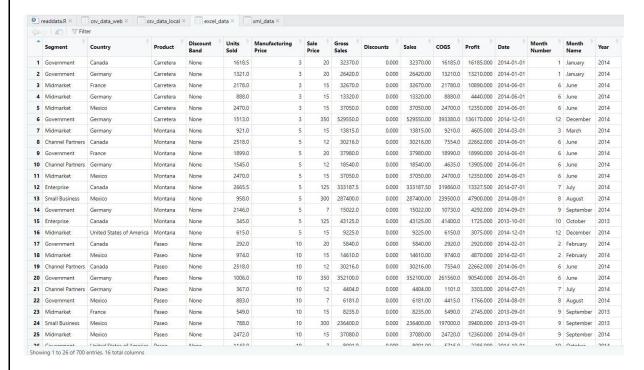


library(readxl)

#Load excel data from disk

excel_data <- read_excel("~/Documents/college/ds_lab/assignment_3/sampledata.xlsx")

View(excel_data)

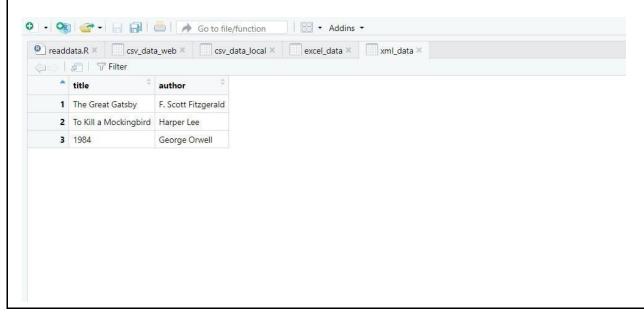


library(XML)

#Load xml data from disk

xml_data <- xmlToDataFrame("~/Documents/college/ds_lab/assignment_3/sampledata.xml")

View(xml_data)



Conclusion: In this lab assignment, we learn to read and write different type of data from different sources.