**#Introduction to Data Mining with R and Data Import/Export in R1**

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**#Save and Load R Objects**

a <- 1:10

**# Create a dumData.Rdata file before saving the below file**

save(a, file = "E:/A N A L Y T I C S/Algorithmic Thinking/The Analytics edge/RDATA/dumData.Rdata")

rm(a)

a

## Error in eval(expr, envir, enclos): object ’a’ not found

load("E:/A N A L Y T I C S/Algorithmic Thinking/The Analytics edge/RDATA/dumData.Rdata")

a

## [1] 1 2 3 4 5 6 7 8 9 10

**#import and export CVS files**

var1 <- 1:5

var2 <- (1:5)/10

var3 <- c("R", "and", "Data Mining", "Examples", "Case Studies")

df1 <- data.frame(var1, var2, var3)

names(df1) <- c("VarInt", "VarReal", "VarChar")

# save to a csv file

write.csv(df1, "./data/dummmyData.csv", row.names = FALSE)

# read from a csv file

df2 <- read.csv("./data/dummmyData.csv")

print(df2)

## VarInt VarReal VarChar

## 1 1 0.1 R

## 2 2 0.2 and

## 3 3 0.3 Data Mining

## 4 4 0.4 Examples

## 5 5 0.5 Case Studies

**#Import from and Export to EXCEL Files**

library(xlsx)

xlsx.file <- "./data/dummmyData.xlsx"

write.xlsx(df2, xlsx.file, sheetName = "sheet1", row.names = F)

df3 <- read.xlsx(xlsx.file, sheetName = "sheet1")

df3

## VarInt VarReal VarChar

## 1 1 0.1 R

## 2 2 0.2 and

## 3 3 0.3 Data Mining

## 4 4 0.4 Examples

## 5 5 0.5 Case Studies

**#Read from Databases**

library(RODBC)

db <- odbcConnect(dsn = "servername", uid = "userid",pwd = "\*\*\*\*\*\*")

sql <- "SELECT \* FROM lib.table WHERE ..."

# or read query from file

sql <- readChar("myQuery.sql", nchars=99999)

myData <- sqlQuery(db, sql, errors=TRUE)

odbcClose(db)