

Worksheet-3b in R

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#Worksheet#3b

install.packages("dplyr")
library(dplyr)
library(tidyverse)

#del Carmen

#1. Create a data frame using the table below.
# a. Write the codes.

Respondents <- c(seq(1,20))
Sex <- c(2,2,1,2,2,2,2,2,2,2,1,2,2,2,2,2,2,1,2)
Fathers_Occupation <- c(1,3,3,3,1,2,3,1,1,1,3,2,1,3,3,1,3,1,2,1)
Persons_at_home <- c(5,7,3,8,5,9,6,7,8,4,7,5,4,7,8,8,3,11,7,6)
Siblings_at_school <- c(6,4,4,1,2,1,5,3,1,2,3,2,5,5,2,1,2,5,3,2)
Types_of_houses <- c(1,2,3,1,1,3,3,1,2,3,2,3,2,2,3,3,3,3,3,2)

dframe <- data.frame(Respondents,Sex,Fathers_Occupation,Persons_at_home,
                     Siblings_at_school,Types_of_houses)

#b. Describe the data. Get the structure or the summary of the data

summary(dframe)

#c. Is the mean number of siblings attending is 5?

# Answer: No

#d. Extract the 1st two rows and then all the columns using the subsetting
#functions.
#Write the codes and its output.

rc1 <- subset(dframe[1:2, 1:6, drop = FALSE])
rc1

#e. Extract 3rd and 5th row with 2nd and 4th column. Write the codes and its
#result.

rc2 <- subset(dframe[c(3,5),c(2,4)])
rc2
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#f. Select the variable types of houses then store the vector that results as
#types_houses.
#Write the codes.

rc3 <- dframe[c(6)]

type_houses <- rc3


#g. Select only all Males respondent that their father occupation was farmer.
#Write
#the codes and its output.

rc4 <- subset(dframe[c(3,11),c(2,3)])
rc4


#h. Select only all females respondent that have greater than or equal to 5
#number of siblings attending school. Write the codes and its outputs

rc5 <- subset(dframe[c(1:20), c(2,5)])
female <- rc5[dframe$Siblingsatschool >= 5,]
female


#2. Write a R program to create an empty data frame. Using the following codes:

df = data.frame(Ids=integer(),
                Doubles=double(), Characters=character(),
                Logicals=logical(),
                Factors=factor(),
                stringsAsFactors=FALSE)

print("Structure of the empty dataframe:")
print(str(df))

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