RWorksheet_Delgado#3b.Rmd

Clyde Marcelo Delgado

2024-09-30

```
df <- data.frame( Respondent = 1:5, Sex = c("Male", "Female", "Female", "Male", "Male"), Fa-
thers_Occupation = c("Farmer", "Driver", "Others", "Farmer", "Others"), Siblings_Attending_School =
c(4, 2, 5, 3, 6), Types of Houses = c("Wood", "Concrete", "Semi-Concrete", "Wood", "Concrete"))
print("Data Structure:") print(str(df)) print("Data Summary:") print(summary(df))
mean siblings <- mean(df$Siblings Attending School) print(paste("Is the mean number of siblings attending
5?", mean siblings == 5))
subset df 1 \leftarrow df[1:2, ] print("First two rows:") print(subset df 1)
subset_df_2 <- df[c(3, 5), c(2, 4)] print("3rd and 5th row with 2nd and 4th columns:") print(subset_df_2)
types_houses <- df$Types_of_Houses print("Types of Houses:") print(types_houses)
male farmers <- subset(df, Sex == "Male" & Fathers Occupation == "Farmer") print("Male respondents
whose father is a farmer:") print(male farmers)
female siblings <- subset(df, Sex == "Female" & Siblings Attending School >= 5) print("Female respon-
dents with >= 5 siblings attending school:") print(female_siblings)
df empty <- data.frame(Ints = integer(), Doubles = double(), Characters = character(), Logicals = logical(),
Factors = factor(), stringsAsFactors = FALSE )
print("Structure of the empty dataframe:") print(str(df empty))
write.csv(df, file = "HouseholdData.csv", row.names = FALSE)
df imported <- read.csv("HouseholdData.csv") print("Imported CSV Data:") print(df imported)
df imported Sex < -factor(df_imported Sex, levels = c("Male", "Female"), labels = c(1, 2)) print("Converted Sex, levels = c("Male", "Female"), labels = c(1, 2)) print("Converted Sex, levels = c("Male", "Female"), labels = c(1, 2)) print("Converted Sex, levels = c("Male", "Female"), labels = c(1, 2)) print("Converted Sex, levels = c("Male", "Female"), labels = c(1, 2)) print("Converted Sex, levels = c("Male", "Female"), labels = c(1, 2)) print("Converted Sex, levels = c("Male", "Female"), labels = c(1, 2)) print("Converted Sex, levels = c("Male", "Female"), labels = c(1, 2)) print("Converted Sex, levels = c("Male", "Female"), labels = c(1, 2)) print("Converted Sex, levels = c("Male", "Female"), labels = c(1, 2)) print("Converted Sex, levels = c("Male", "Female"), labels = c(1, 2)) print("Converted Sex, levels = c("Male", "Female"), labels = c("Male", "Female"), l
Sex to factor (1 = \text{Male}, 2 = \text{Female});") print(df imported)
df_{imported}Types_{o}f_{H}ouses < -factor(df_{i}mportedTypes_{o}f_{H}ouses, levels = c("Wood", "Concrete",
"Semi-Concrete"), labels = c(1, 2, 3)) print("Converted Types of Houses to factor:") print(df_imported)
df_{imported}Fathers_{O}ccupation < -factor(df_{imported}Fathers_{O}ccupation, levels = c("Farmer", "Driver",
"Others"), labels = c(1, 2, 3)) print("Converted Father's Occupation to factor:") print(df imported)
female driver \leftarrow subset(df imported, Sex == 2 & Fathers Occupation == 2) print("Female respondents
whose father's occupation is Driver:") print(female driver)
siblings 5plus <- subset(df imported, Siblings Attending School >= 5) print("Respondents with >= 5
```

siblings attending school:") print(siblings 5plus)