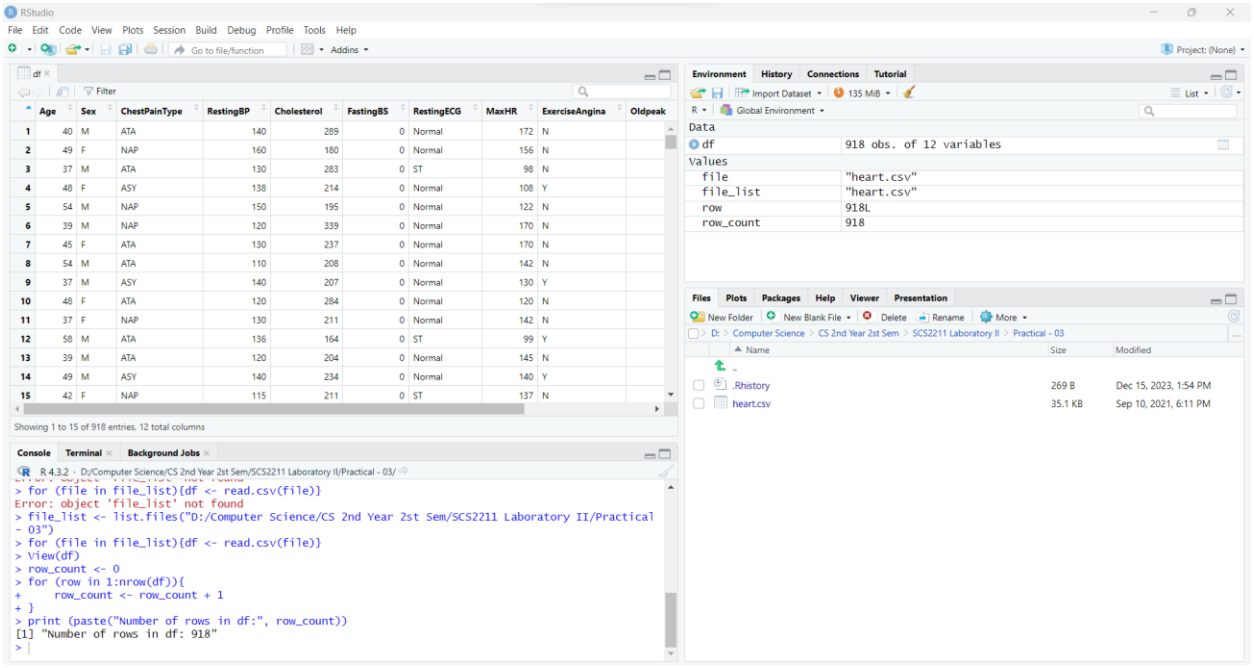
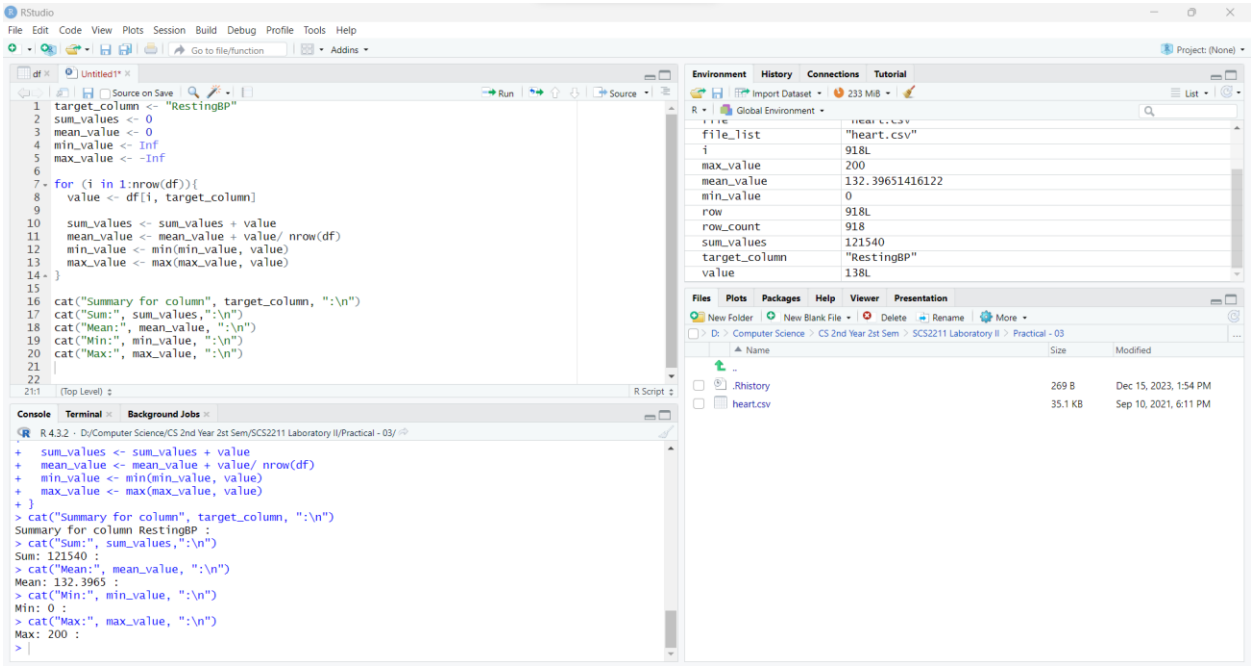
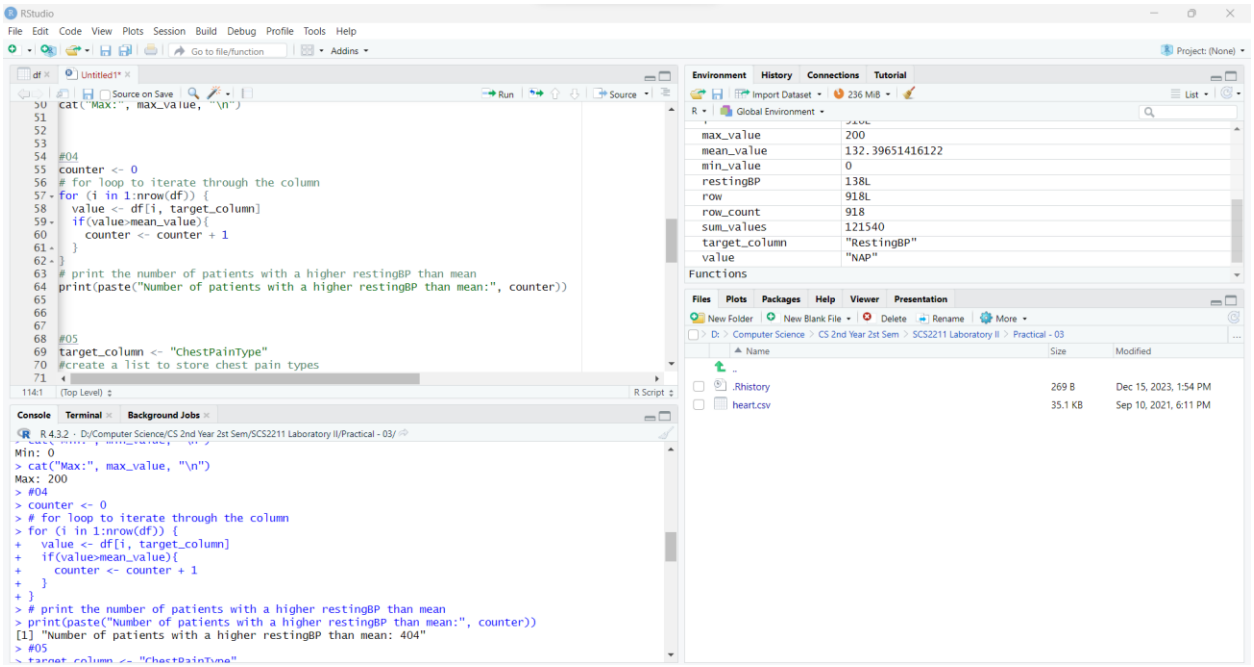
Pehesara A.J.P.G - 21001316

Laboratory – 2

Practical 03






RStudio
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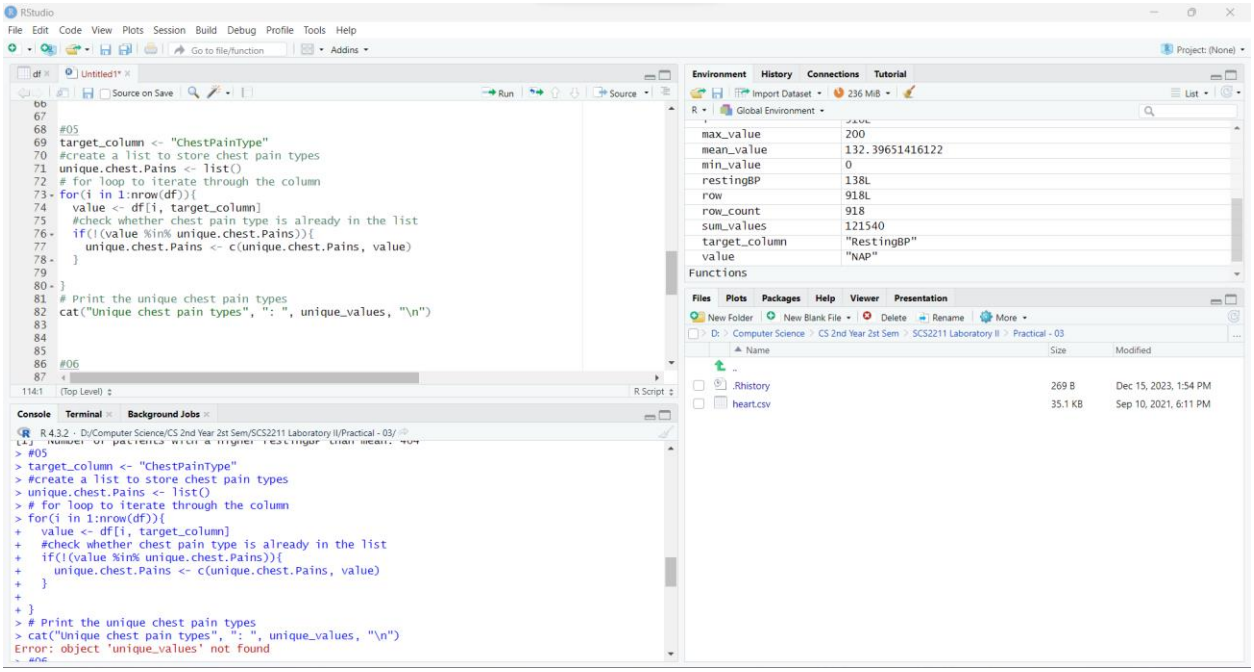
cat("Max:", max_value, "\n")
#04
counter <- 0
# for loop to iterate through the column
for (i in 1:nrow(df)) {
value <- df[i, target_column]
if(value>mean_value){
counter <- counter + 1
}
}
# print the number of patients with a higher restingBP than mean
print(paste("Number of patients with a higher restingBP than mean:", counter))
#05
target_column <- "ChestPainType"
#create a list to store chest pain types
Environment History Connections Tutorial
max_value 200
mean_value 132.39651416122
min_value 0
restingBP 138L
row 918L
row_count 918
sum_values 121540
target_column "RestingBP"
value "NAP"
Functions
Files Plots Packages Help Viewer Presentation
.Rhistory 269 B Dec 15, 2023, 1:54 PM
heart.csv 35.1 KB Sep 10, 2021, 6:11 PM
Console Terminal Background Jobs
Min: 0
> cat("Max:", max_value, "\n")
Max: 200
> #04
> counter <- 0
> # for loop to iterate through the column
> for (i in 1:nrow(df)) {
+ value <- df[i, target_column]
+ if(value>mean_value){
+ counter <- counter + 1
+ }
+ }
> # print the number of patients with a higher restingBP than mean
> print(paste("Number of patients with a higher restingBP than mean:", counter))
[1] "Number of patients with a higher restingBP than mean: 404"
> #05


RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
#05
target_column <- "ChestPainType"
#create a list to store chest pain types
unique.chest.Pains <- list()
# for loop to iterate through the column
for(i in 1:nrow(df)){
value <- df[i, target_column]
#check whether chest pain type is already in the list
if(!(value %in% unique.chest.Pains)){
unique.chest.Pains <- c(unique.chest.Pains, value)
}
}
# Print the unique chest pain types
cat("Unique chest pain types", ": ", unique_values, "\n")
#06
Environment History Connections Tutorial
max_value 200
mean_value 132.39651416122
min_value 0
restingBP 138L
row 918L
row_count 918
sum_values 121540
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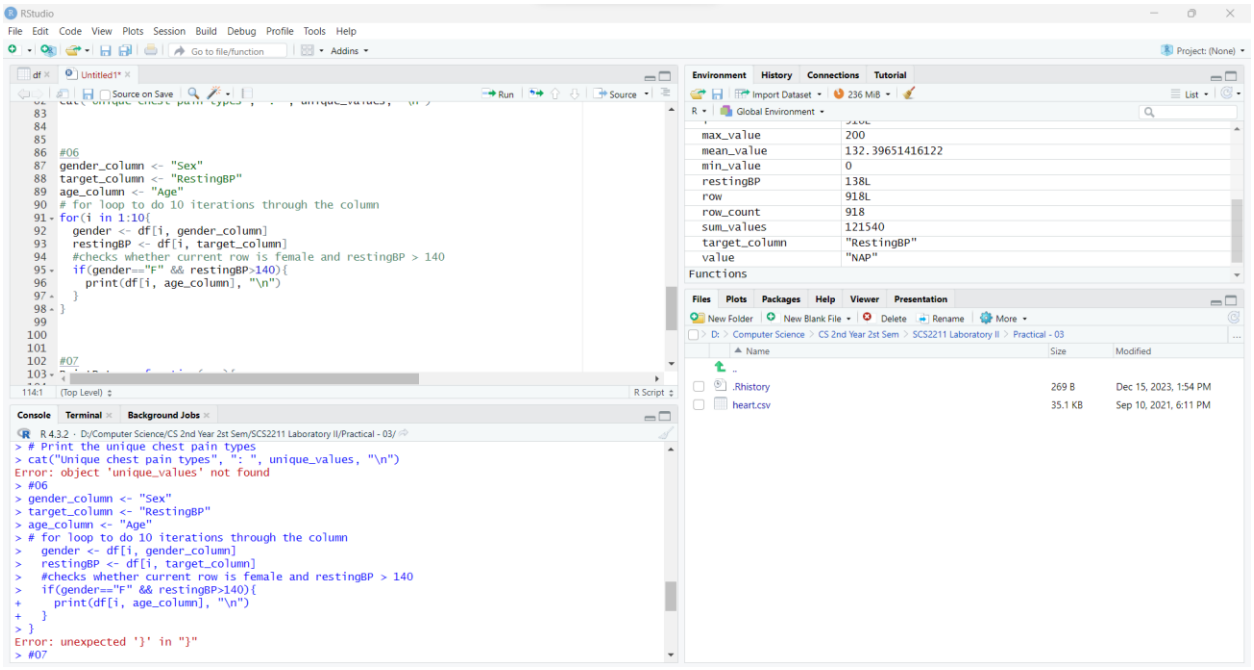
> #05
> target_column <- "ChestPainType"
> #create a list to store chest pain types
> unique.chest.Pains <- list()
> # for loop to iterate through the column
> for(i in 1:nrow(df)){
+ value <- df[i, target_column]
+ #check whether chest pain type is already in the list
+ if(!(value %in% unique.chest.Pains)){
+ unique.chest.Pains <- c(unique.chest.Pains, value)
+ }
+
+ }
> # Print the unique chest pain types
> cat("Unique chest pain types", ": ", unique_values, "\n")
Error: object 'unique_values' not found


#06
gender_column <- "Sex"
target_column <- "RestingBP"
age_column <- "Age"
# for loop to do 10 iterations through the column
for(i in 1:10){
gender <- df[i, gender_column]
restingBP <- df[i, target_column]
#checks whether current row is female and restingBP > 140
if(gender=="F" && restingBP>140){
print(df[i, age_column], "\n")
}
}
#07
> # Print the unique chest pain types
> cat("Unique chest pain types", ": ", unique_values, "\n")
Error: object 'unique_values' not found
> #06
> gender_column <- "Sex"
> target_column <- "RestingBP"
> age_column <- "Age"
> # for loop to do 10 iterations through the column
> gender <- df[i, gender_column]
> restingBP <- df[i, target_column]
> #checks whether current row is female and restingBP > 140
> if(gender=="F" && restingBP>140){
+ print(df[i, age_column], "\n")
+ }
> }
Error: unexpected '}' in "}"
> #07
max_value 200
mean_value 132.39651416122
min_value 0
restingBP 138L
row 918L
row_count 918
sum_values 121540
target_column "RestingBP"
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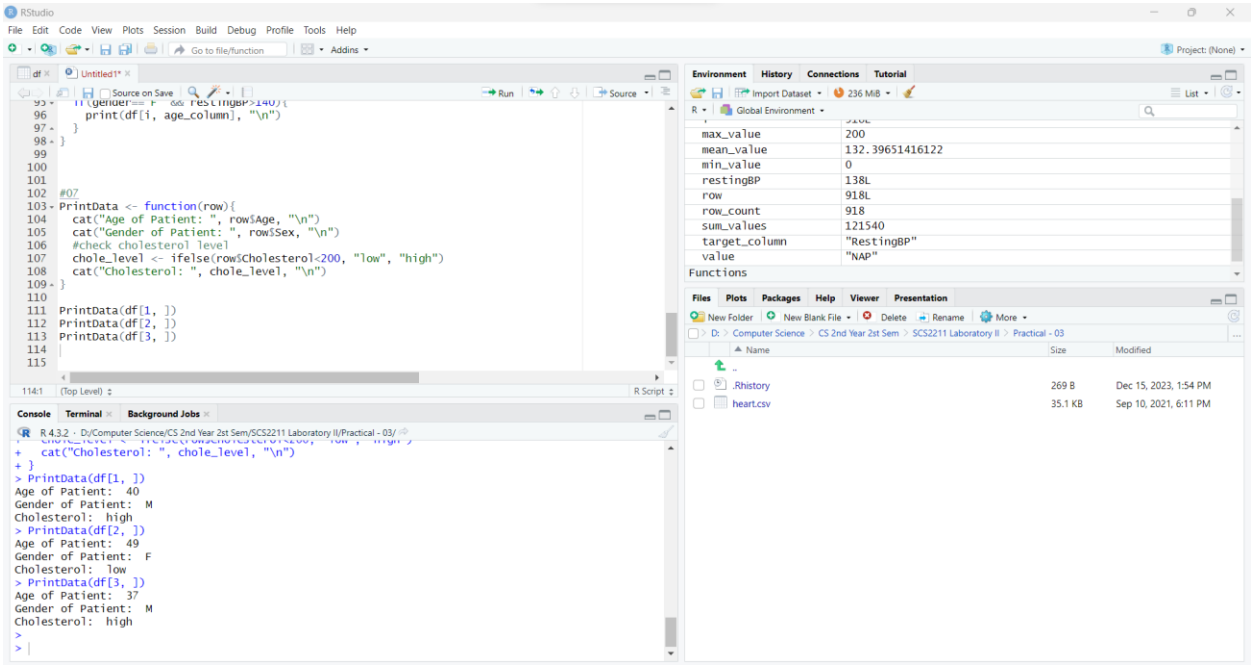
print(df[i, age_column], "\n")
}
}
#07
PrintData <- function(row){
cat("Age of Patient: ", row$Age, "\n")
cat("Gender of Patient: ", row$Sex, "\n")
#check cholesterol level
chole_level <- ifelse(row$Cholesterol<200, "low", "high")
cat("Cholesterol: ", chole_level, "\n")
}
PrintData(df[1,])
PrintData(df[2,])
PrintData(df[3,])
cat("Cholesterol: ", chole_level, "\n")
}
> PrintData(df[1,])
Age of Patient: 40
Gender of Patient: M
Cholesterol: high
> PrintData(df[2,])
Age of Patient: 49
Gender of Patient: F
Cholesterol: low
> PrintData(df[3,])
Age of Patient: 37
Gender of Patient: M
Cholesterol: high
max_value 200
mean_value 132.39651416122
min_value 0
restingBP 138L
row 918L
row_count 918
sum_values 121540
target_column "RestingBP"
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