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Exercise 2 – Data Mining

Question 1:

names(iris)

returns

[1] "Sepal.Length" "Sepal.Width" "Petal.Length" "Petal.Width" "Species" ncol(iris) returns 5. There are 5 different attributes. nrow(iris) returns 150. There are 150 instances.

Question 2:

summary(iris)

returns

Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
Min. :4.300	Min.:2.000	Min.:1.000	Min.:0.100	setosa:50
1st Qu.:5.100	1st Qu.:2.800	1st Qu.:1.600	1st Qu.:0.300	versicolor:50
Median :5.800	Median :3.000	Median :4.350	Median :1.300	virginica:50
Mean :5.843	Mean :3.057	Mean :3.758	Mean:1.199	
3rd Qu.:6.400	3rd Qu.:3.300	3rd Qu.:5.100	3rd Qu.:1.800	
Max.:7.900	Max.:4.400	Max.:6.900	Max.:2.500	

Question 3:

irisSubset <- iris[40:85,]

save(irisSubset, file="irisSubset.RData")

Question 4:

rm(irisSubset)

load("irisSubset.RData")

Ouestion 5:

irisSubset[order(irisSubset\$Sepal.Length, decreasing=TRUE),]

Ouestion 6:

irisSubsetSepal <- iris[iris\$Sepal.Length < 5.4,]

Ouestion 7:

max(irisSubsetSepal\$Sepal.Length) is 5.3

max(irisSubsetSepal\$Sepal.Width) is 4.1

max(irisSubsetSepal\$Petal.Length) is 4.5

max(irisSubsetSepal\$Petal.Width) is 1.7

max(irisSubsetSepal\$Species) is returning an error as this attribute is a categorical variable.

Question 8:

minMaxSpeciesType <- function(specyType, attributeName){