

# Rworksheet 4c

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```
#1.
#a.
mpg <- read.csv("mpg.csv")

#b.
#The categorical variables found in the mpg data set are manufacturer, model, year, trans, fl, and class

#c.
#The continuous variables found in the mpg data set are displ, cty, and hwy

#2.
library(ggplot2)

##
## Attaching package: 'ggplot2'
## The following object is masked _by_ '.GlobalEnv':
##
##      mpg
mpg<-read.csv("mpg.csv")

model_count <- table(mpg$manufacturer, mpg$model)
max_models <- max(unlist(model_count))
max_manufacturer <- names(model_count)[unlist(model_count) == max_models]
variation_count <- table(mpg$model, mpg$cyl)

max_variations <- max(unlist(variation_count))
max_model <- names(variation_count)[unlist(variation_count) == max_variations]

cat("The manufacturer with the most models is:", max_manufacturer)

## The manufacturer with the most models is:
cat("The model with the most variations is:", max_model)

## The model with the most variations is:
#a.
```