Data Manipulation

Data Sorting, Finding and Removing Duplicate Records

Mtcars Dataset

 Full form of mtcars is Motor Trend Car Road Tests

• The data was extracted from the 1974 Motor Trend US magazine

• comprises fuel consumption and 10 other aspects of automobile design and performance for 32 automobiles (1973–74 models)

Description of mtcars

A data frame with 32 observations on 11 (numeric) variables.

• [, 1] mpg

Miles/(US) gallon

• [, 2] cyl

Number of cylinders

• [, 3] disp

Displacement (cu.in.)

•[, 4] hp

Gross horsepower

• [, 5] drat

Rear axle ratio

Description of mtcars

• [, 6] wt Weight (1000 lbs)

• [, 7] qsec 1/4 mile time

• [, 8] vs Engine (o = V-shaped, 1 = straight)

• [, 9] am Transmission (o = automatic, 1 = manual)

• [,10] gear Number of forward gears

• [,11] carb Number of carburetors

Sorting Data

sorting examples using the mtcars dataset

attach(mtcars)

sort by mpg

newdata <- mtcars[order(mpg),]

sort by mpg and cyl

newdata <- mtcars[order(mpg, cyl),]</pre>

Sorting Data

#sort by mpg (ascending) and cyl (descending)

newdata <- mtcars[order(mpg, -cyl),]</pre>

detach(mtcars)