CSCI-4047-901 Tyler Burleson Exercise 11

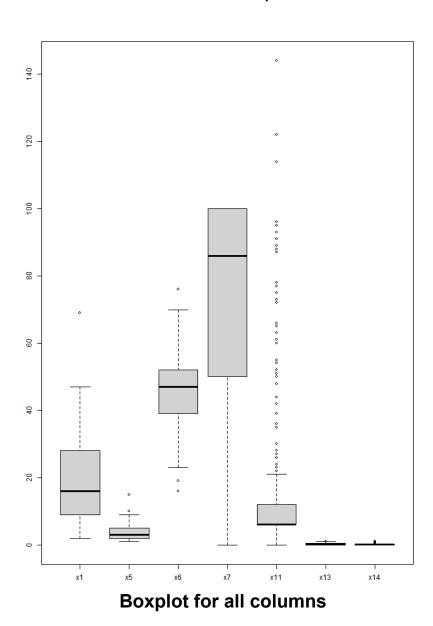
Problem 1)

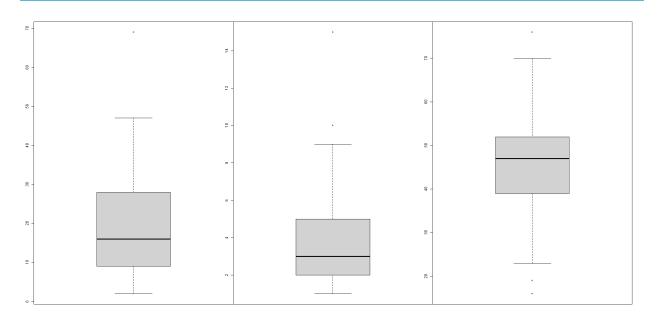
> uni.plot(cars)				
<pre>\$outliers</pre>				
Mazda RX4	Mazda RX4 Wag	Datsun 710	Hornet 4 Drive	Hornet Sportabout
TRUE	FALSE	FALSE	FALSE	FALSE
Valiant	Duster 360	Merc 240D	Merc 230	Merc 280
FALSE	FALSE	FALSE	TRUE	FALSE
Merc 280C	Merc 450SE	Merc 450SL	Merc 450SLC	Cadillac Fleetwood
FALSE	FALSE	FALSE	FALSE	FALSE
Lincoln Continental	Chrysler Imperial	Fiat 128	Honda Civic	Toyota Corolla
FALSE	FALSE	TRUE	FALSE	TRUE
Toyota Corona	Dodge Challenger	AMC Javelin	Camaro Z28	Pontiac Firebird
FALSE	FALSE	FALSE	FALSE	FALSE
Fiat X1-9	Porsche 914-2	Lotus Europa	Ford Pantera L	Ferrari Dino
FALSE	FALSE	FALSE	FALSE	FALSE
Maserati Bora	Volvo 142E			
TRUE	FALSE			

The outliers from our tasks are the following:

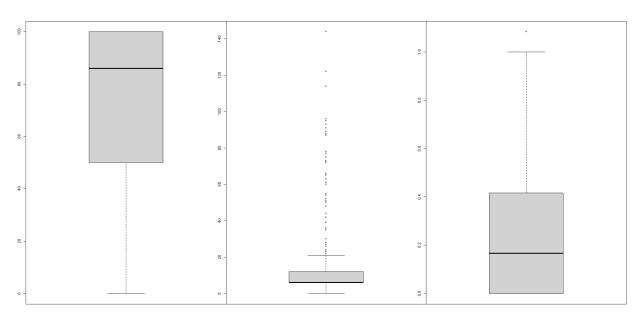
- Mazda RX4
- Merc 230
- Fiat 128
- Toyota Corolla
- Maserati Bora

Problem 2)

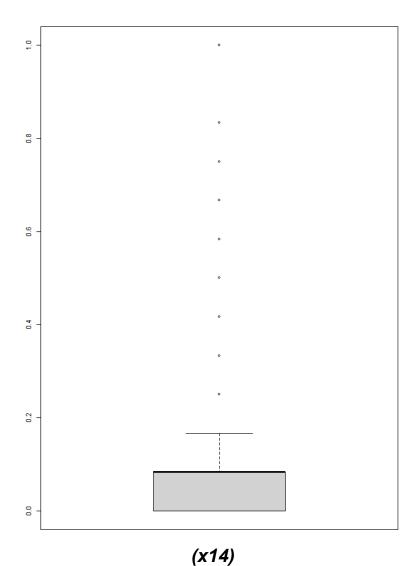




In order left to right (x1, x5, x6)



In order left to right (x7, x11, x13)



> print(out\$rank.outliers, max = 10) [1] 1165 1164 1163 1162 1161 1160 1159 1158 1157 1156 [reached getOption("max.print") -- omitted 1301 entries]

Top 10 multivariate outliers using Gower Distance