

STAT 757 Assignment 2

DUE 2/18/2018 11:59PM

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2/1/2018

Instructions [30 points]

Modify this file to provide responses to the Ch.2 Exercises (Section 2.8 in Sheather (2009)). You can find some helpful code here: <http://www.stat.tamu.edu/~sheather/book/docs/rcode/Chapter2.R>. Please email **both** your .Rmd (or roxygen .R) and one of the following either .HTML, .PDF, or .DOCX using the format SURNAME-FIRSTNAME-Assignment2.Rmd and SURNAME-FIRSTNAME-Assignment2.pdf.

Exercise 2.8.1 [20 points]

```
## change the line below to your path!
my_data_path <- "~/OneDrive - University of Nevada, Reno/Teaching/STAT_757/Sheather_data/Data"
playbill <- read.csv(file.path(my_data_path, "playbill.csv"), header=TRUE)

#Figure 2.6 on page 38
plot(playbill$LastWeek, playbill$CurrentWeek, xlab="Gross box office results previous week",
      ylab="Gross box office results current week")
```

Exercise 2.8.2 [20 points]

Exercise 2.8.3 [10 points]

Exercise 2.8.4 [10 EXTRA CREDIT points]

5 points handwritten and scanned. 5 more points if written in LaTeX or Word equation editor.

Exercise 2.8.5 [10 points]

Exercise 2.8.6 [10 EXTRA CREDIT points]

5 points handwritten and scanned. 5 more points if written in LaTeX or Word equation editor.

Exercise 2.8.7 [10 points]

References

Sheather, Simon. 2009. *A Modern Approach to Regression with R*. Springer Science & Business Media.

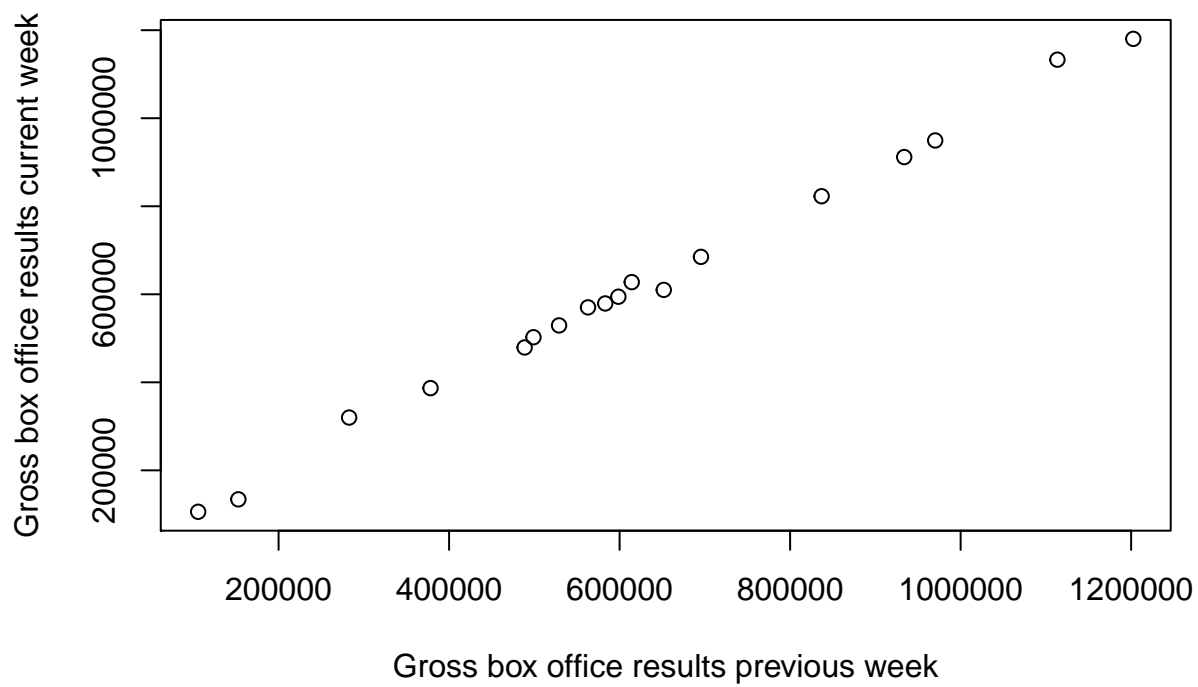


Figure 1: Note the striking linear relationship between box office results lagged by one week.