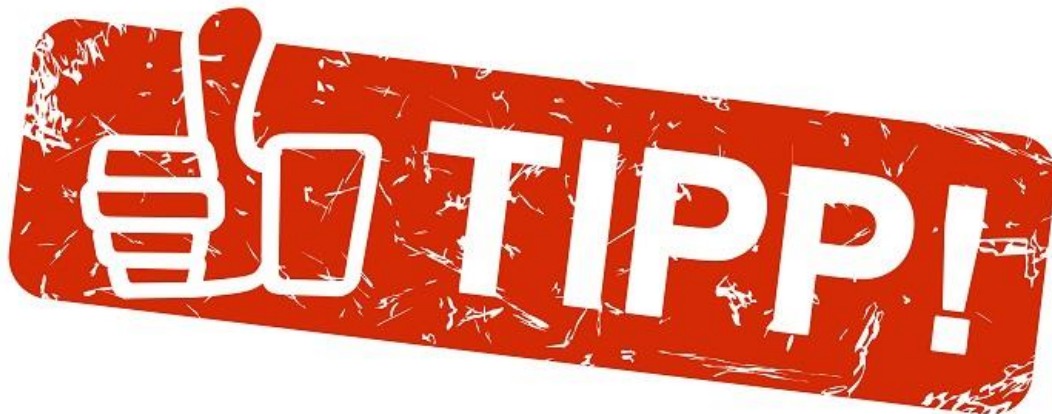# CASE STUDY 002

[R]

Philadelphia Crime Rates

Here are some clues in case you are stuck with the case study:

1. First, you will need to convert the times date time column to the correct format. Review lecture "Handling Date-Times in R" in the Advanced R Course.

2. Then you will need to create a Date column.

3. To aggregate data in R (e.g. count of crimes by day) you need to use the aggregate function. Check ?aggregate or search stackoverflow for details.

4. Use ggplot to visualize the results. Review the associated section of the R Programming A-Z course.

5. To extract the hour from your date time column consider the strftime() function.

6. Use as.integer() to convert hours from categorical to integer.

7. Same procedure for the months visualization.

8. Use the order() function with the 'decreasing' parameter set to 'T' to sort categories by crimes totals.

9. To plot the top 10 Categories you will need to use geom_bar(stat="identity") type of visualization.

10. Same procedure for the top 10 Police HQ's.