

# Tableau Exercise I

You have been appointed as a data analyst for a criminal investigation research office and one of your first tasks is to create some visual analytics of the mass-shooting events that took place in the last 50 years in America. Your manager wants you to draw conclusions over the gravity of the injuries over time, the most affected areas in the US and about the prevalent demographic profile of the attacker.

You are provided with a dataset that contains information on about 300 such incidents. (But you are welcome to enrich this data with other relevant information if you like.)

Some points to get you started:

- I. **Clean** the data
  - check that variables are recognised correctly as categorical/numerical
  - gender is sometimes encoded as 'M' and sometimes as 'male'..
- II. **Display the injuries/fatalities over time**
- III. Design a **geographic map** of where the shootings happened
- IV. What is the best visualization for showing the **attacker's profile**?
- V. Can you **tell an interesting story using these data**?

Feel encouraged to use your creativity, just play with the data and see what insights you can discover. There awaits also a small price for those of you brave enough to share your findings with all of us. :-)

## Tableau Exercise 2

Your manager is excited about the fabulous work you performed to gain insight on the mass shootings. Reassured in your growing visualization skills he next asks you to work on a dataset containing information about more than 170k terrorist attacks worldwide.

This is an open ended assignment with the goal to extract as much insightful information about the nature of terrorist attacks as you can from the provided data. There are no 'right' or 'wrong' approaches. Just many stories waiting to be unveiled in this vast collection of data. What insights can you come up with?

The data has been pre-prepared a little already to allow for easier analysis. Use the 'terrorism\_workbook (fresh)' workbook together with the 'terrorism\_data.tde' data file to immediately get started.

Some questions to get you started:

- **Where** are the attacks located?
- How have the **numbers** evolved **over the years**?
- Can you say something about the **profile of the attackers**?
- What were the major **reasons for the attacks**?
- Who are typically the **targets of attacks**?
- Have a look at the codebook to identify some variables that YOU are curious to find out more about...

Once you collected some interesting findings, try to bring them together in a Dashboard for an easy overview of the situation at one glance. Again, rewards await those brave enough to present their findings. (-: