# Chapter 3. Exploratory data analysis

## Exercising the Pivot Table on the Colorado data

Here the task is to replicate some results in Chapter 3. The data are in the ‘Condensed data.xls’ file.

1. Replicate Figures 3-10, 3-12, 3-13 and 3-14 in the book.
2. Examine whether Terrain is associated with E{μ} and whether the association depends on AADT and Segment Length.

## EDA elements for road segments

Use the data in the ‘State data and attributes.xls’ file. How many segments have 5000<ADT<5999 and 1<Length<1.5 miles? How many KABC accidents in this bin? How many accidents/segment in this bin?

1. Plot accidents/segment as a function of Segment Length when 1000<AADT<2000 and 2000<AADT<3000.
2. What seems to be the role of lane width?

## EDA for signalized intersections

Using the data in the ‘Edmonton 4-legged Signalized Intersections.xls’ file conduct an EDA.