Calculating Home Sales Statistics

Goal

The goal is to develop a Ruby script that reads home sales data from a CSV file and outputs statistics about the sales broken down by zip code.

Your script should accept an input filename and output file name on the command line.

It should read the input file and, for each zip code in the input data, output the following statistics into a CSV file with one row per zip code:

- Total number of sales

- Mean and median close price (one column for each)

- Number of sales in each month in the supplied date range (one column for each)

Some zip codes in the input contain a +4 part. These should be stripped off for the purposes of this script. Any line that contains invalid data may be discarded.

Data Format

The input data is supplied as a comma separated file with field headers on the first line. Each line contains the following fields: id, close_date, price, close_price, and zip. The data in the supplied file covers the dates between Jan 01, 2012 and Jan 01, 2013.

Resources

Feel free to use any resources that you would normally rely on during development. You can use any part of the standard library or generally available gems that are useful. Please document any dependencies (and Ruby version requirements) in a comment at the beginning of your script.