DATA-321 IN-CLASS ASSIGNMENT FEBRUARY 29, 2024

1. For this exercise, we will use a dataset on Amazon's Top 50 bestselling books from 2009 to 2019 (`bestsellers_with_categories.csv`). Contains 550 books, data has been categorized into fiction and non-fiction using Goodreads.

   (a) (3 points) Load the `bestsellers_with_categories.csv` datafile.

   (b) (5 points) Are books cheaper these day regardless of the genre? Create a moving average plot (using 3 data points to compute the moving average) that shows how the average prices evolve with time. Comment on your findings.

   (c) (5 points) Are people more opinionated these days? Create a moving average plot (using 4 data points to compute the moving average) that shows how the average number of reviews evolve with time. Comment on your findings.

   (d) (4 points) Create a parameter, call it `Rating`. Set the data type to float, current value 4. Check range and use the following: minimum 4, maximum 5, and step size 0.1.

   (e) (4 points) Create a new calculated field, call it `Average Rating`, using the formula below.

   ```
   AVG([User Rating])
   ```

   (f) (4 points) Create a new calculated field, call it `Rating Selection` using the formula below.

   ```
   [Average Rating] >= [Rating]
   ```

   (g) (5 points) Create an appropriate visualization that shows the authors whose average rating is greater than or equal to the value of the parameter `Rating`. How many authors have a 4.9 average rating or higher?

[1]

[1] Make sure you submit a `*.twb` file in Blackboard.