

ECON 0150 | Fall 2025 | Homework 2.4

Due: Friday, October 9 at 5PM

Homework is designed to both test your knowledge and challenge you to apply familiar concepts in new applications. Answer clearly and completely. You are welcomed and encouraged to work in groups so long as your work is your own. Use the datafiles to answer the following questions. Then submit your figures and answers to Gradescope.

Q1. Grouping Amazon Book Sales

We'll explore the list of 50 bestselling Amazon books each year between 2009 and 2021. The column `Genre` describes whether the bestseller is Fiction or Non-Fiction.

- a) Create a figure that will display the count of fiction books for each year.

- b) In the year with the most fiction bestsellers, how many bestsellers are fiction books?

Q2. Marriage Rates by Continent

The following questions are based on **crude marriage rates** — numbers of marriages per one thousand inhabitants — in 1990 and 2019. Each row represents a different country.

- a) Create a figure showing the mean marriage rate by continent.

- b) Which continent has the lowest mean marriage rate?