**Welcome**

Thank you for taking the time to complete our data engineering assessment. Please complete the following tasks in your own files, clearly indicating which files correspond to each task.

When you are finished, create a zip file with your assessment code and outputs and send the zip file to Kelsi Nervik <[knervik@archenergypartners.com](mailto:knervik@archenergypartners.com)>.

If you get stuck or have clarifying questions, don’t hesitate to reach out to Kelsi at the email address above. You have 5 hours to complete both tasks. Please do not work on the project for more than 5 hours, even if it is incomplete. We ask that you report how many hours you spent on each task when you present your deliverables to our team. Tracking your hours is simply an additional way for us to gauge your current skill level and helps us ensure we are comparing candidates on an equal basis.

**Task 1 - Web Scraping & Python:**

Write a Python script that extracts the following information for each book from the

[Books To Scrape](https://books.toscrape.com)

website:

* Name
* Rating
* Price
* UPC
* # Available
* # of Review
* Category (Travel, Mystery, Historical Fiction, etc)

Store the data in a csv.

Note: Use the requests, beautiful soup, and multiprocessing packages in your script. If your computer has limited processors, you don’t need to scrape all 50 pages.

**Task 2 - SQL & Database:**

Write a Python script to

1. Create a sqlite database with the book data from Task 1
2. Query the database to show the following view:
   1. Category
   2. Average Rating
   3. Total Books Available

Note: Use the sqlite3 package in your Python script and query the database using SQL.