

Using your programming language of choice, create a routine which downloads all CSV files on this site: <https://www.stats.govt.nz/large-datasets/csv-files-for-download/>, under the "Business" section. For each CSV file downloaded, you must create a SQL table with the same schema as the downloaded file and load the CSV data into it. You are responsible for creating your local development environment, eg. installing a programming language, a SQL database, and anything else you may need.

Overall Routine Flow and Requirements:

- Scrape <https://www.stats.govt.nz/large-datasets/csv-files-for-download/> for CSV files under the "Business" section.
- Download and extract all content.
- For each CSV file, create a mysql table with the same schema as the file. Be sure to use the appropriate data types!
- Load the CSV data into the mysql table.
- Verify the data is loaded completely and correctly.

Implementation Considerations:

- <https://www.stats.govt.nz/large-datasets/csv-files-for-download/> is a public website. Please be respectful of their bandwidth!
- Your program must implement error handling.
- Your program should log its progress.
- The ideal solution handles the entire "Routine Flow and Requirements" programmatically, however manually performing some steps is acceptable if you get stuck. For example, if scraping the website is too much, simply copying the links into a file and reading the file is an option. Be prepared to discuss this with the reviewer.
- Some links to CSV files are actually zip files with many files inside! Your program must handle this, extract the individual CSVs, and move forward appropriately.
- Speed is important. Write this program as efficiently as you can.

Prepare for the following additional discussion points. (Please note you are free to implement them, but being able to discuss them in detail is OK too.):

- Can this application be packed into a Docker container?
- Can this application be scheduled to run daily, weekly? How? How will you handle changes in the data?

This is not a pass/fail exercise! We aren't looking for a specific answer or piece of code. Googling is just fine, and so is emailing the reviewer with questions. The goal of this assignment is to see how you approach a task like this as a whole. If parts of this task cannot be completed, be prepared to discuss the difficulties you faced. If you have a creative idea on how to solve this problem, bring it up! This is not a test - it's a 'getting to know how you think' exercise.