# Library Book Database Management System

This project contains the core data export from a library book database (books\_scraped.csv) and several pre-generated reports and views. The purpose of this system is to manage and provide insights into the library's collection, tracking attributes like category, price, stock levels, and ratings.

## Core Database File

The core of this project is the books\_scraped.csv file, which represents a complete export of the library's book inventory.

### Database Fields

The books\_scraped.csv file includes the following data fields for each record:

* Title: The title of the book.
* Book\_category: The category or genre of the book.
* Star\_rating: The customer rating of the book (out of five).
* Price: The price of the book.
* Stock: The availability status of the book (e.g., "In stock").
* Quantity: The number of units available in stock.

## Generated Reports and Views

The other files in this project are reports and custom views generated from the main database. These provide quick access to specific subsets of data and summarized information.

### Custom Filtered Views (.csv files)

These files are exports containing specific subsets of the library's collection, filtered by certain criteria:

* **fiction\_books.csv**: A view of all books that belong to the "Fiction" category.
* **cheap\_books.csv**: A view of all books in the collection that are considered to be low-priced.
* **high\_stock\_books.csv**: A list of all books that have a high quantity available in stock.
* **top10\_expensive.csv**: A report containing the 10 most expensive books in the library's inventory.

### Category Summary Reports (.txt files)

These text files provide high-level summarized insights by grouping the data by book category, useful for management and inventory analysis:

* **books\_per\_category.txt**: Shows the total count of books available in each category.
* **avg\_price\_per\_category.txt**: Details the average price of books for each category.
* **avg\_quantity\_per\_category.txt**: Contains the average stock quantity for each book category.
* **avg\_rating\_per\_category.txt**: Lists the average star rating for books within each respective category.

## Using the Database Exports

The main database export (books\_scraped.csv) can be imported into any spreadsheet or database tool for custom querying and analysis. The pre-generated reports and views offer quick access to key metrics and filtered lists without needing to process the raw data.