SQL Project on Books, Customers & Orders

INTRODUCTION

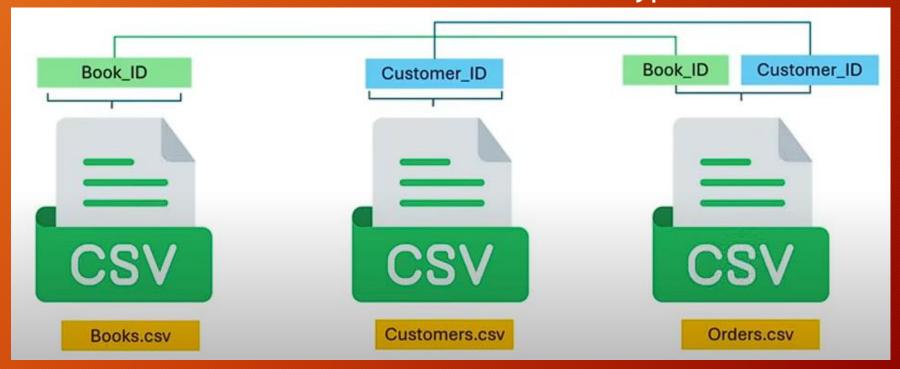
- ♦ This SQL project is based on a hospital management dataset containing information about hospitals, departments, patients, and medical records.
- ♦ The goal was to analyze healthcare data using SQL queries and extract meaningful insights for better decision-making.
- ♦ Key operations included calculating averages, identifying trends, and summarizing data across hospitals, cities, and departments.
- The project highlights the real-world application of SQL through grouping, filtering, date calculations, and performance analysis.

OBJECTIVES

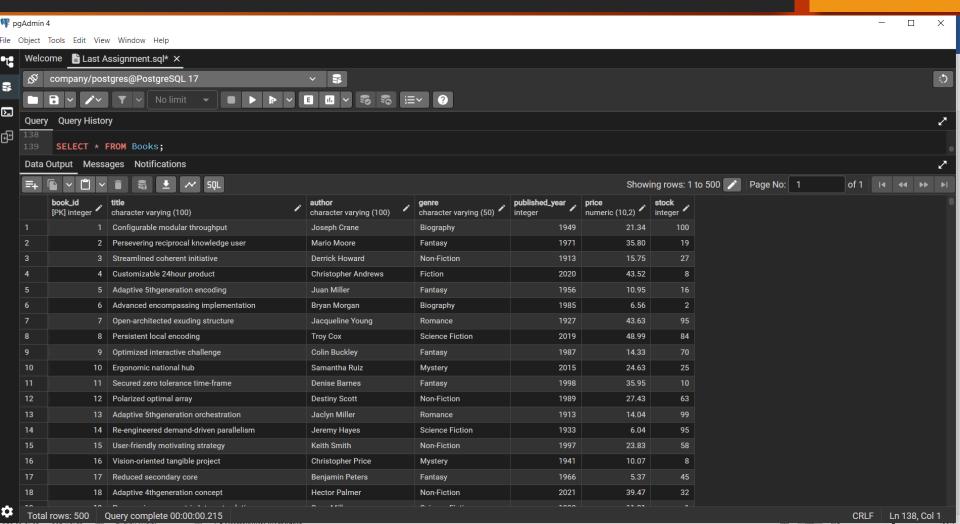
- ◆ To analyze hospital-related data using SQL and derive meaningful insights.
- ♦ To perform data aggregation and filtering based on departments, cities, and time periods.
- ♦ To identify key metrics such as patient count, doctor availability, and medical expenses.
- ♦ To enhance data analysis skills by solving realworld business queries using SQL.

For this project, I used these three CSV files.

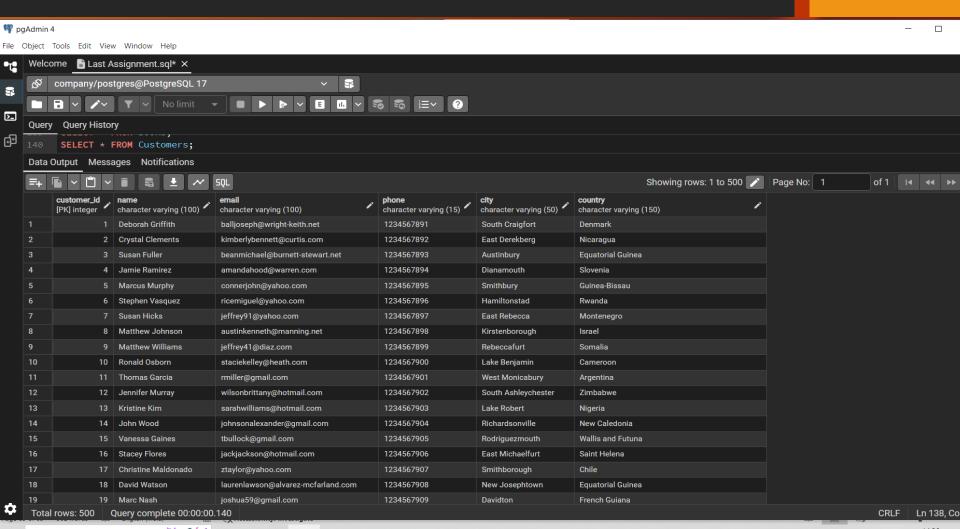
Tables must have at least one common column with same column name and same data type.



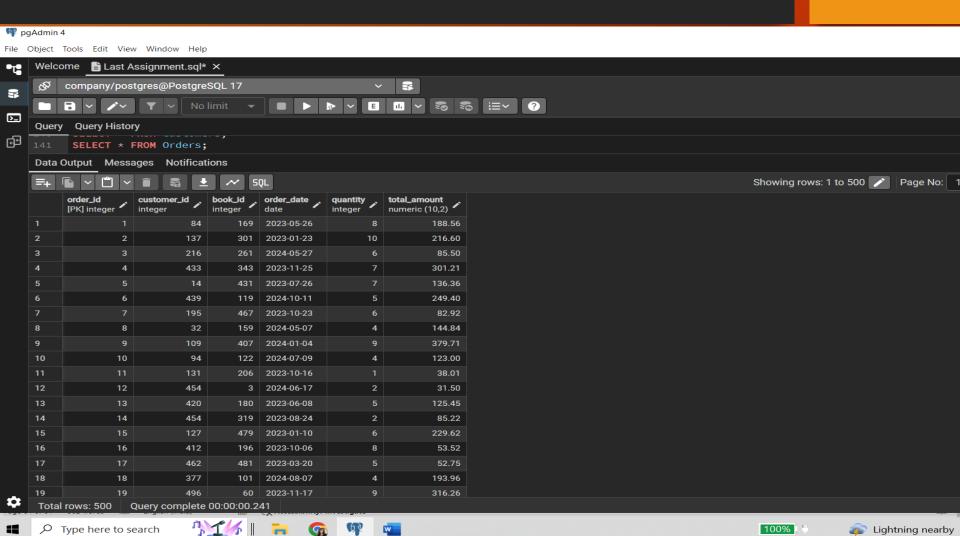
Books



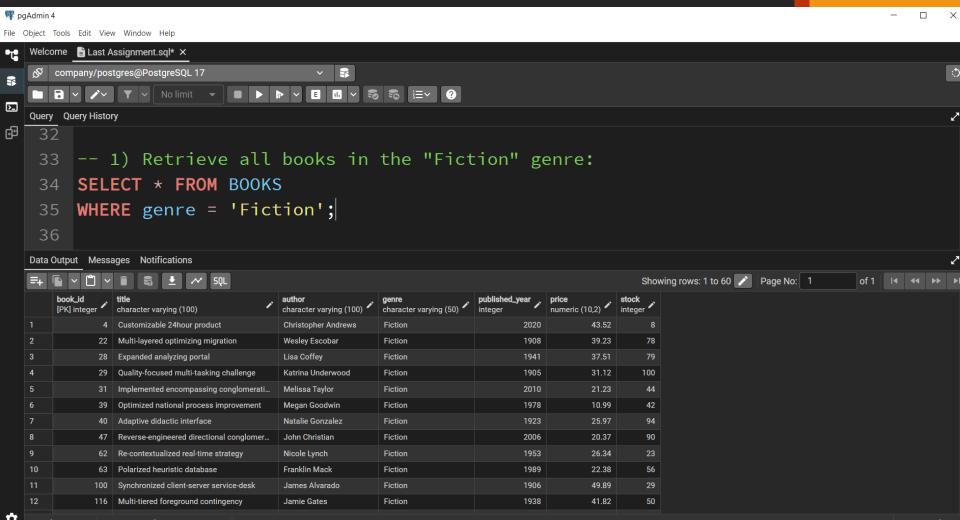
Customers



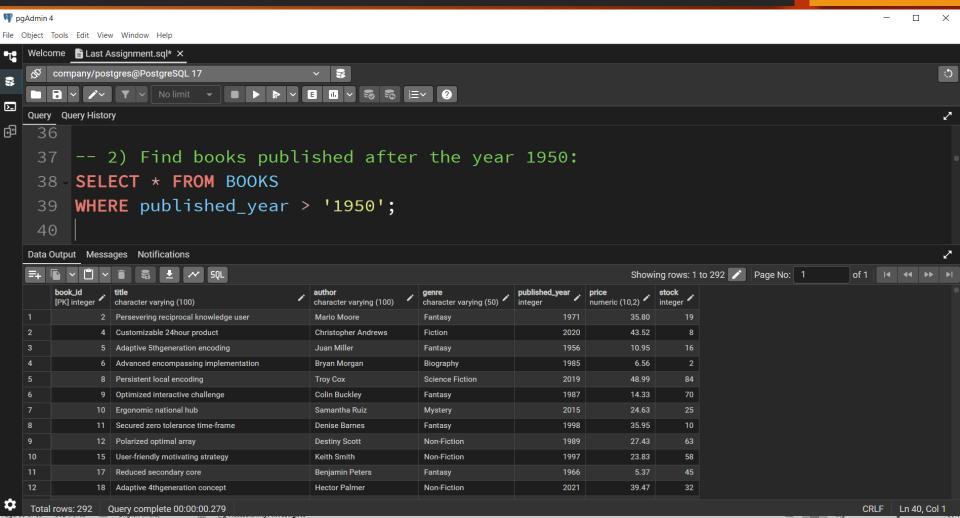
Orders



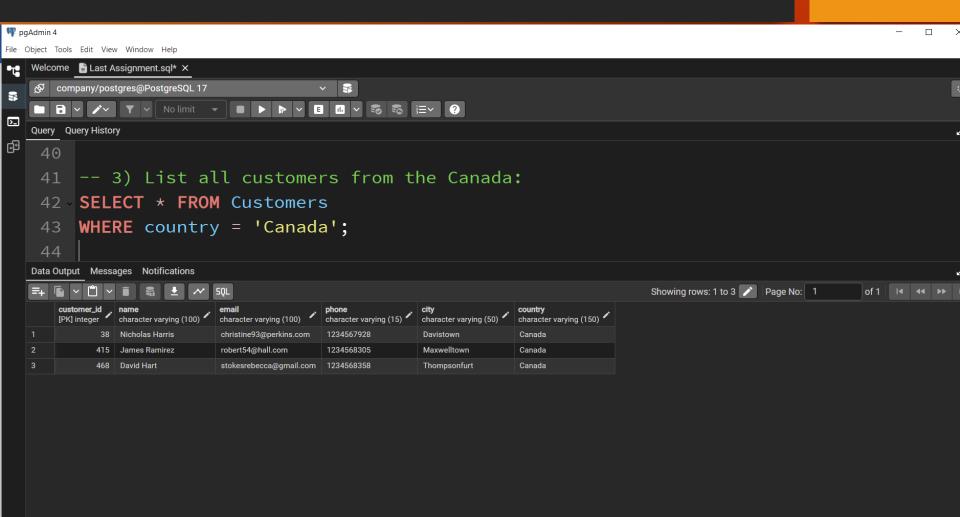
Retrieve all books in the "Fiction"



Find books published after the year 1950:

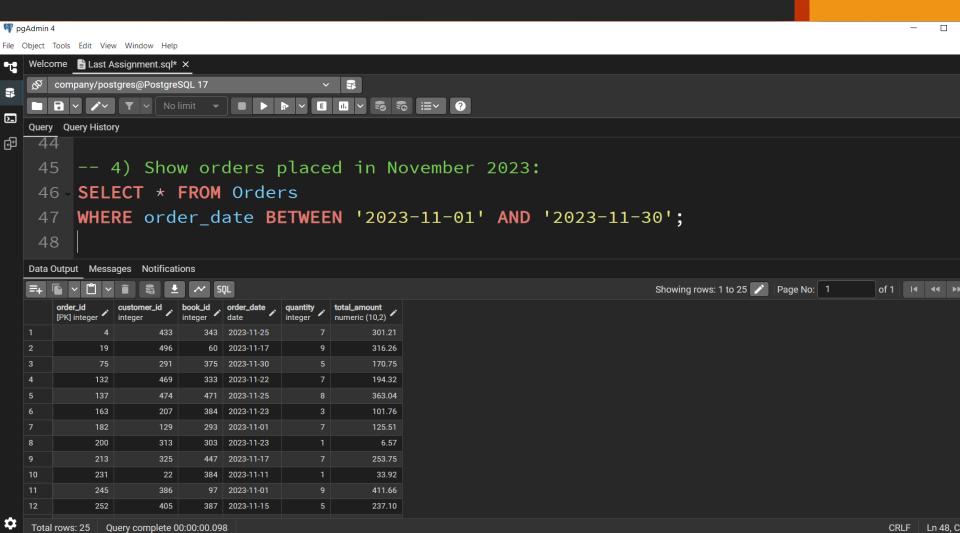


List all customers from the Canada:

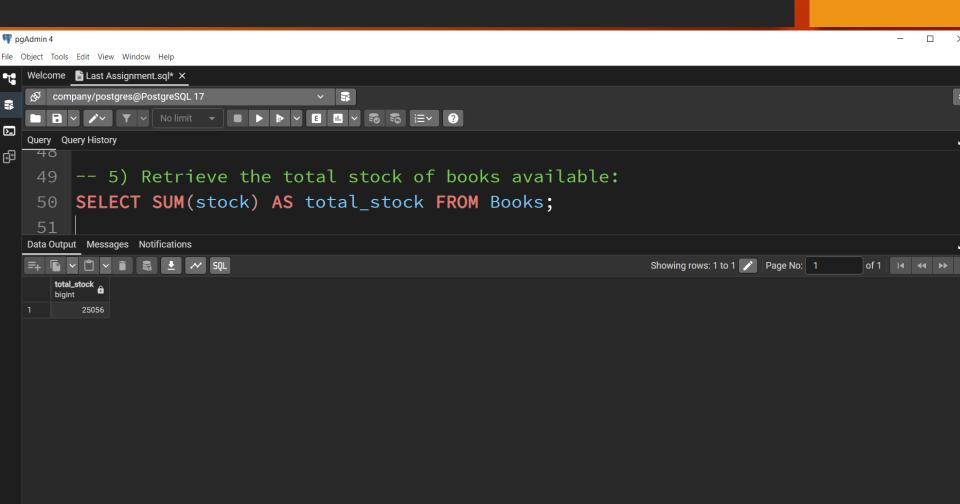


otal rows: 3 Query complete 00:00:00.212 CRLF Ln 44, Col 1

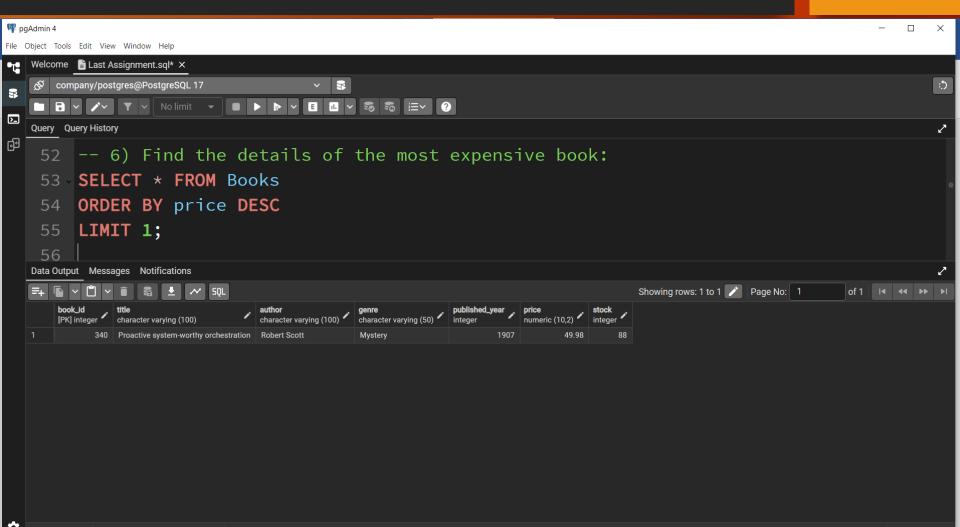
Show orders placed in November 2023:



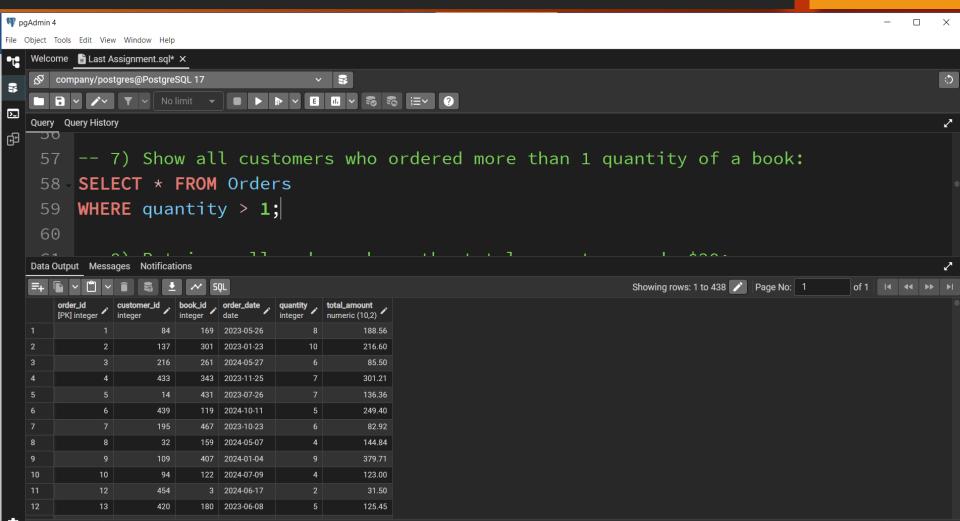
Retrieve the total stock of books available:



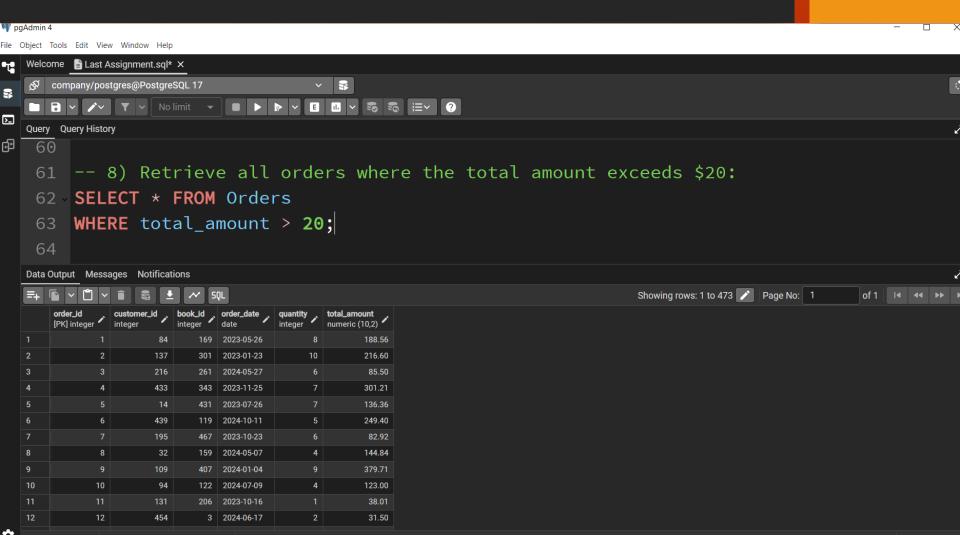
Find the details of the most expensive book:



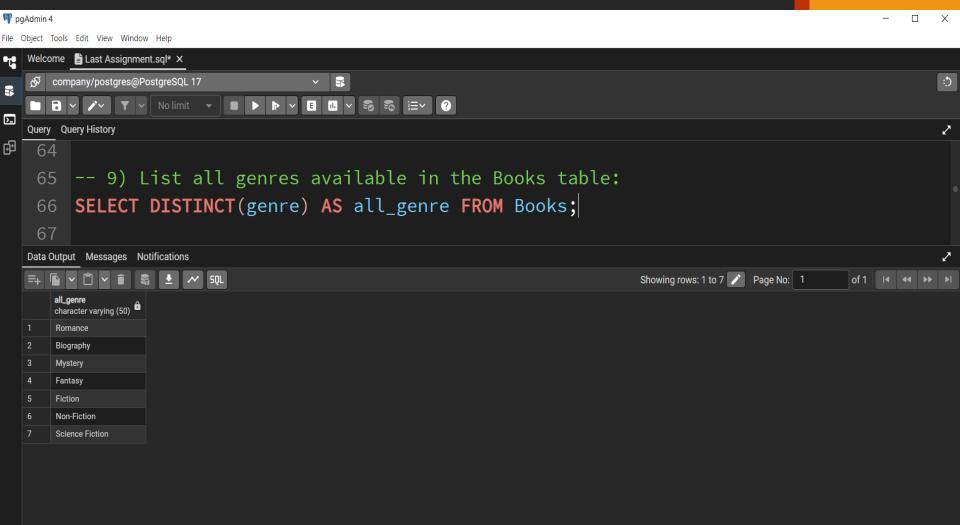
Show all Customers who ordered more than 1 quantity of a book:



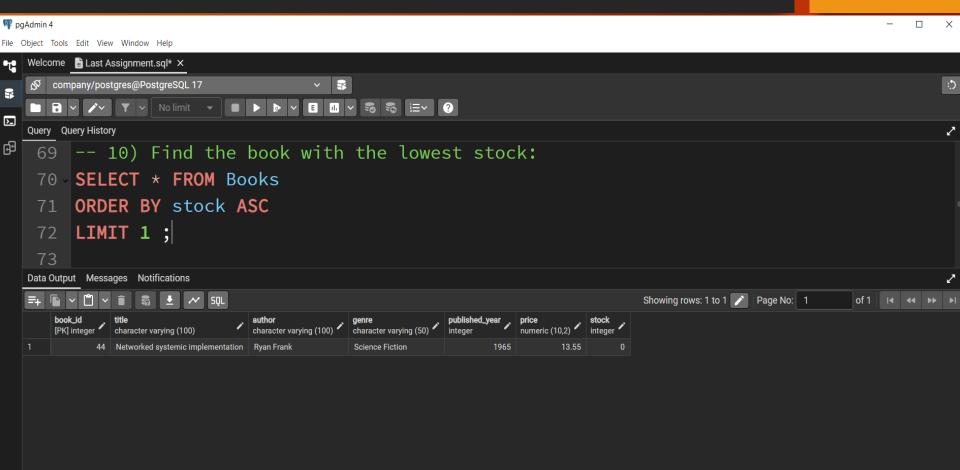
Retrieve all orders where the total amount exceeds \$20



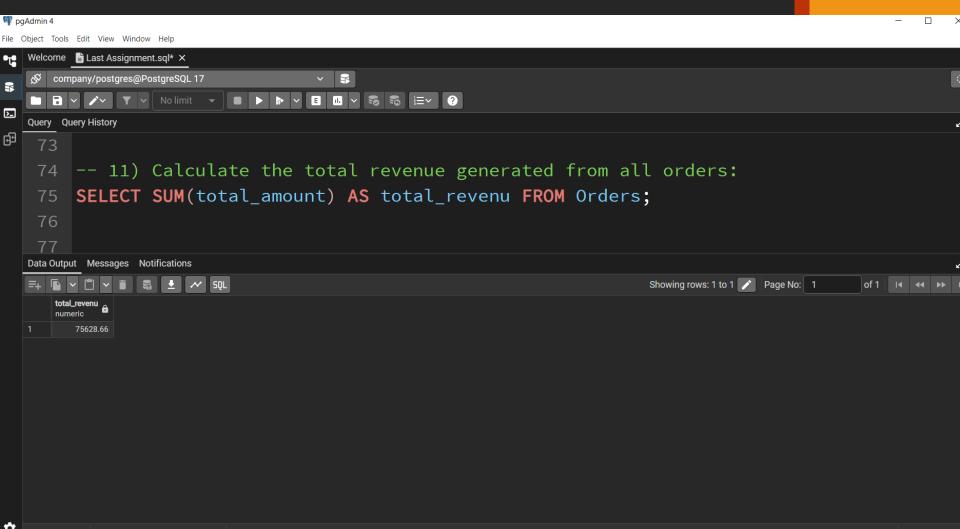
List all genres available in the Books table:



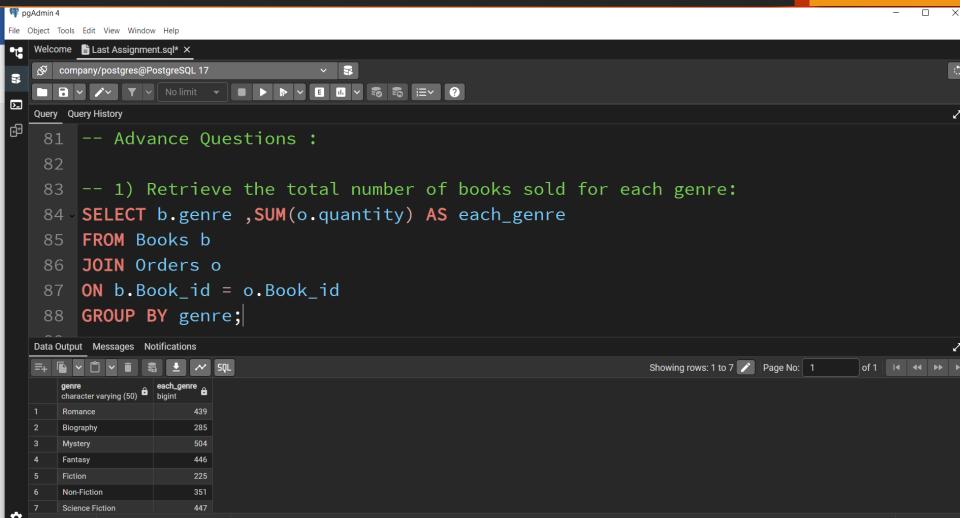
Find the book with the lowest stock:



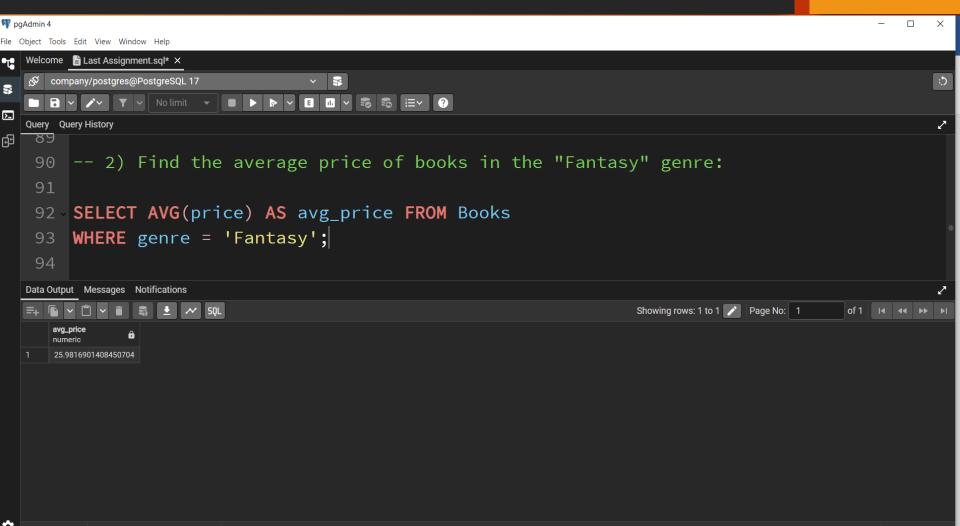
Calculate the total revenue generated from all orders:



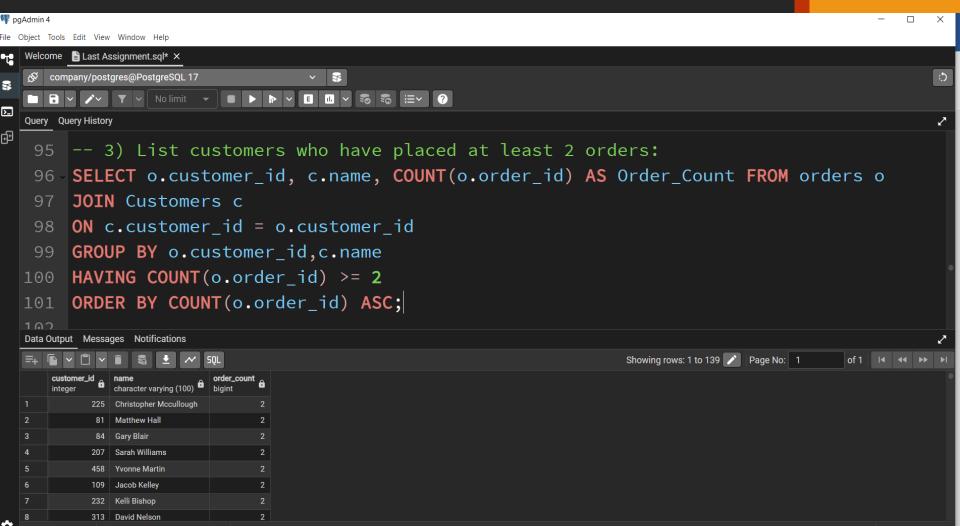
Retrieve the total number of books sold for each genre:



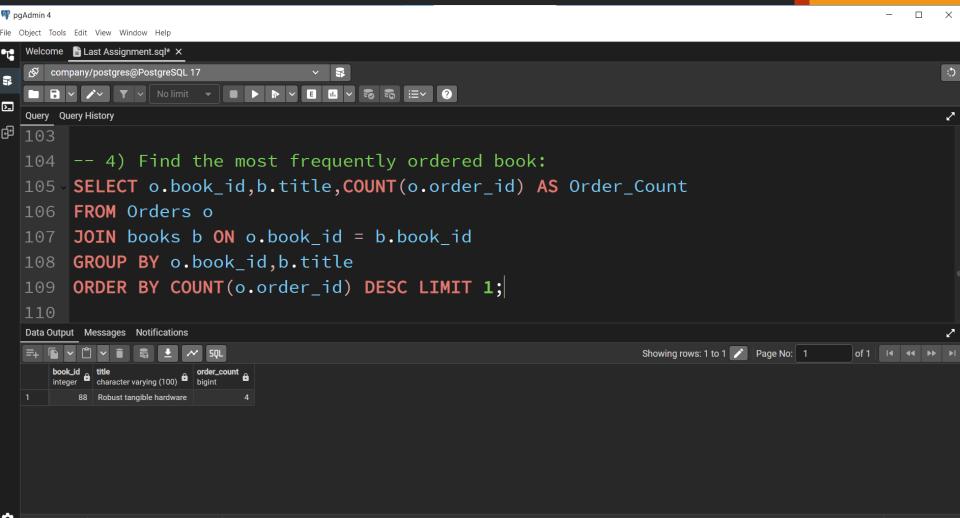
Find the average price of books in the "Fantasy" genre:



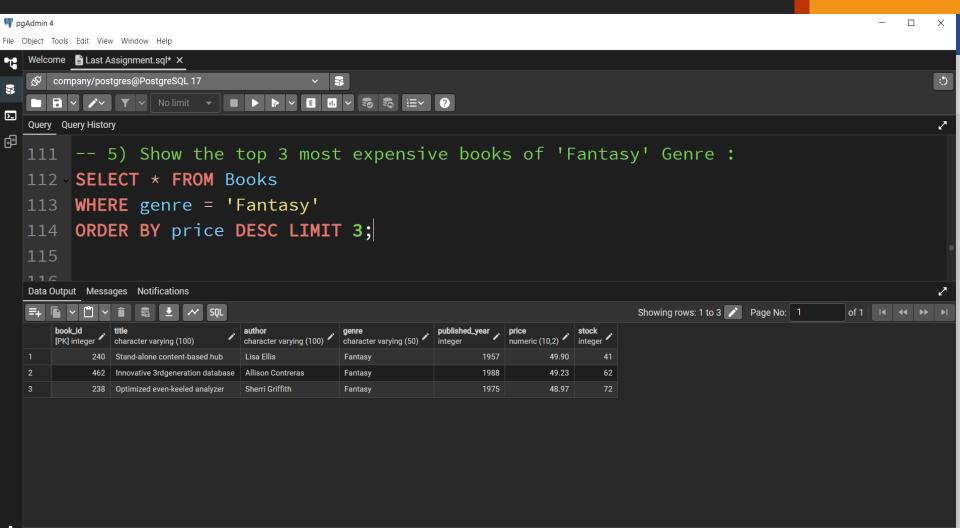
List customers who have placed at least 2 orders:



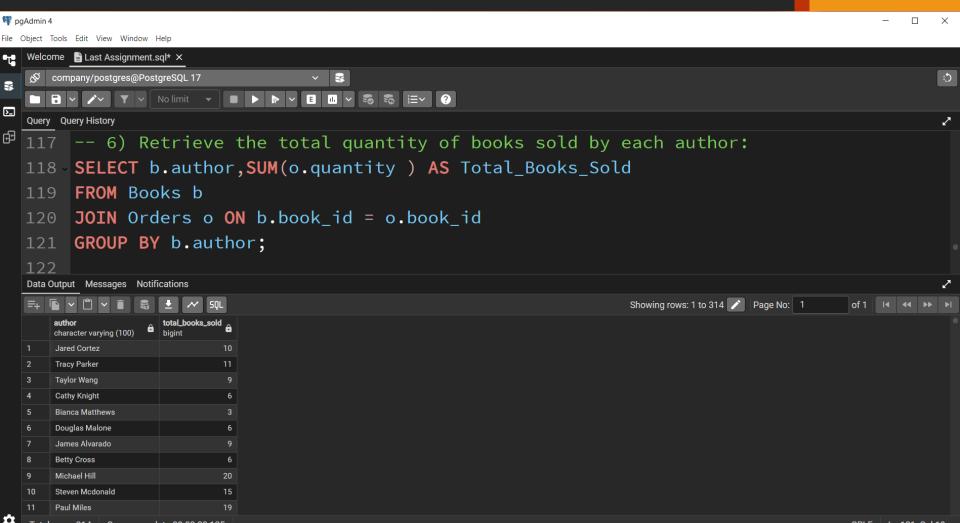
Find the most frequently ordered book:



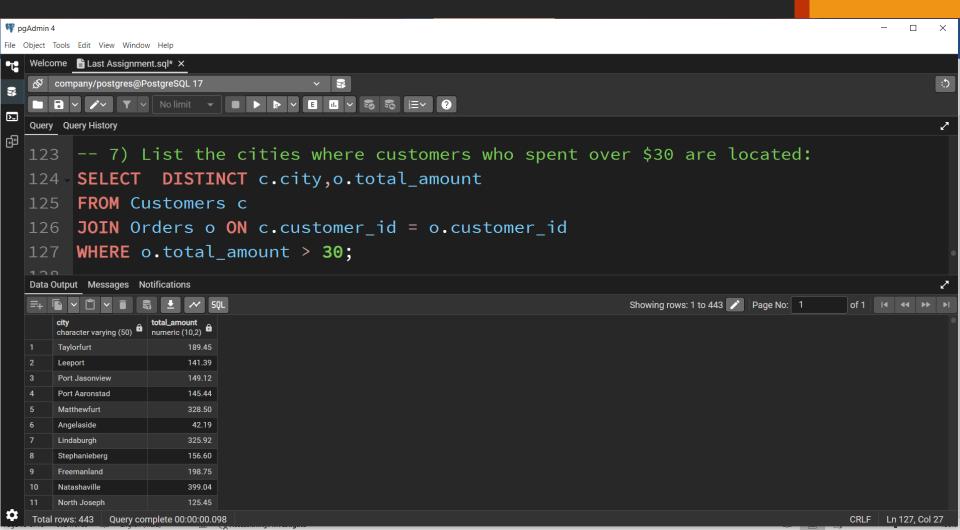
Show the top 3 most expensive books of 'Fantasy' Genge:



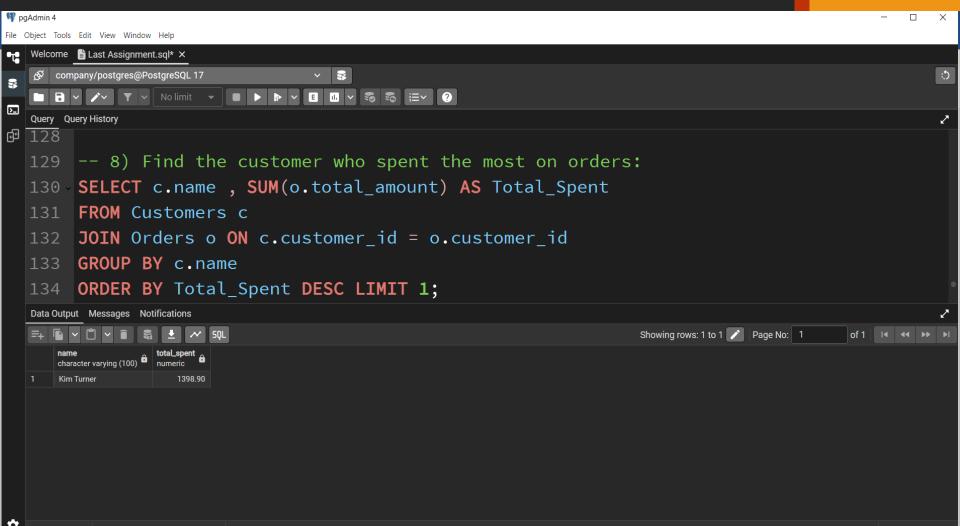
Retrieve the total quantity of books sold by each author:



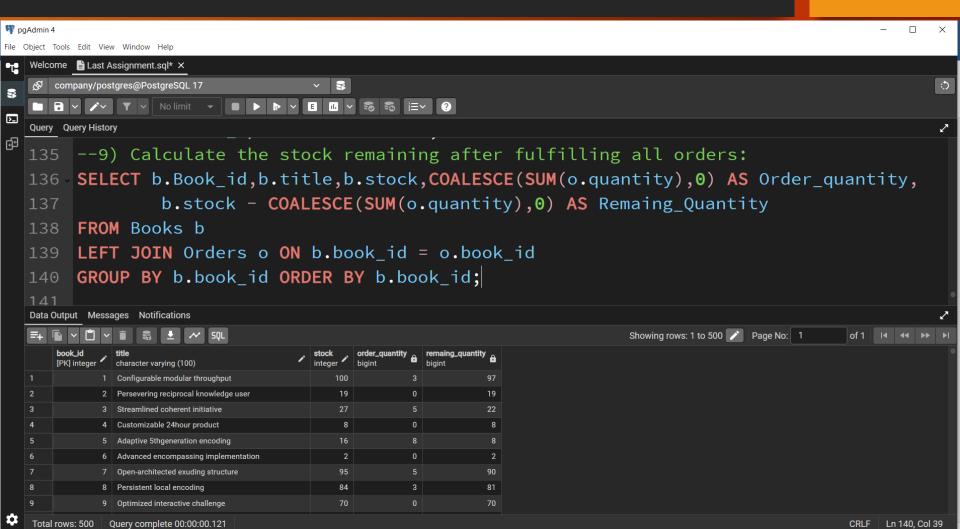
List the cities where customers who spent over \$30 are located:



Find the customer who spent the most on orders:



Calculate the stock remaining after fulfilling all orders:



ADVANTAGE

- ♦ It improves practical SQL skills by applying queries to real-world hospital data.
- Helps in understanding how data-driven decisions can be made in healthcare.
- Strengthens knowledge of joins, grouping, filtering, and date functions.
- Builds confidence in solving business problems through structured queries.

THANK YOU