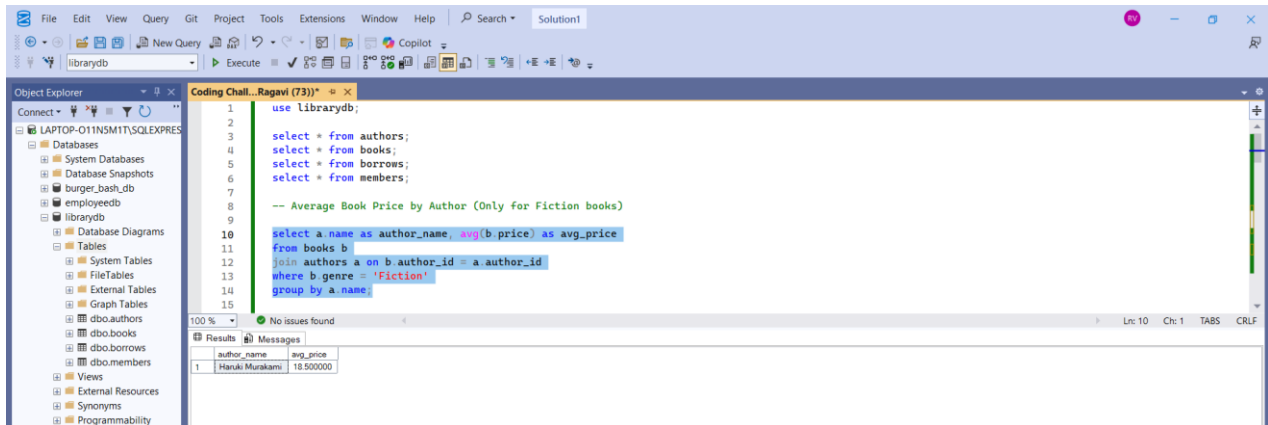# SQL Coding Challenge Documentation

Database: librarydb

1. Average Book Price by Author (Only for Fiction Books)
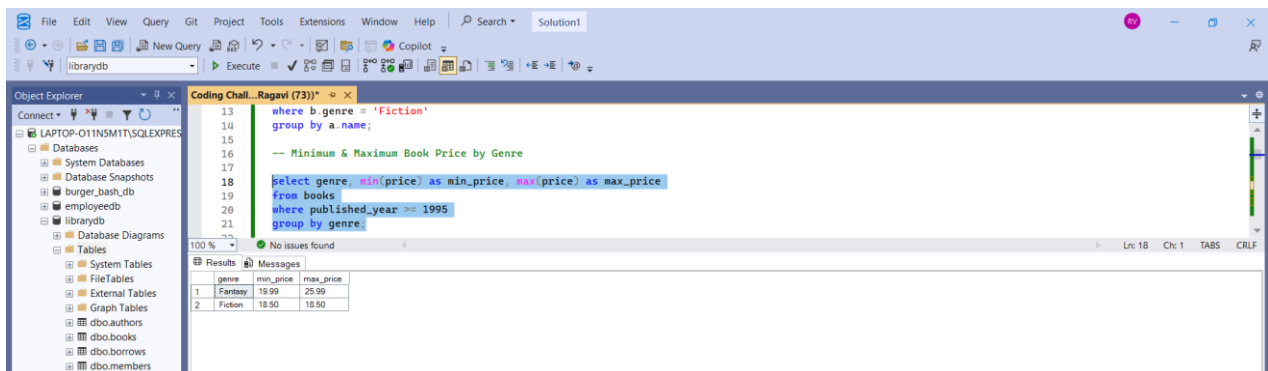
Query Explanation:
This query calculates the average price of books for each author, **limited to the 'Fiction' genre**.

2. Minimum & Maximum Book Price by Genre (Published Year ≥ 1995)

Query Explanation:
Finds the **minimum and maximum price** of books grouped by genre, but only includes books published **in or after 1995**.

3. Each Member & Total Books Borrowed That Cost > ₹20

Query Explanation:
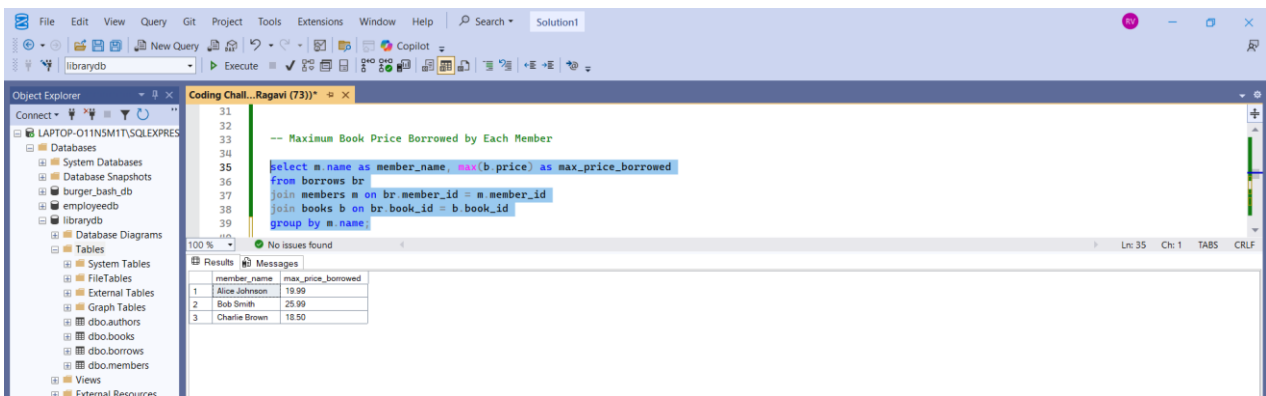Returns each member's name along with the **count of books they borrowed** that cost **more than ₹20**.
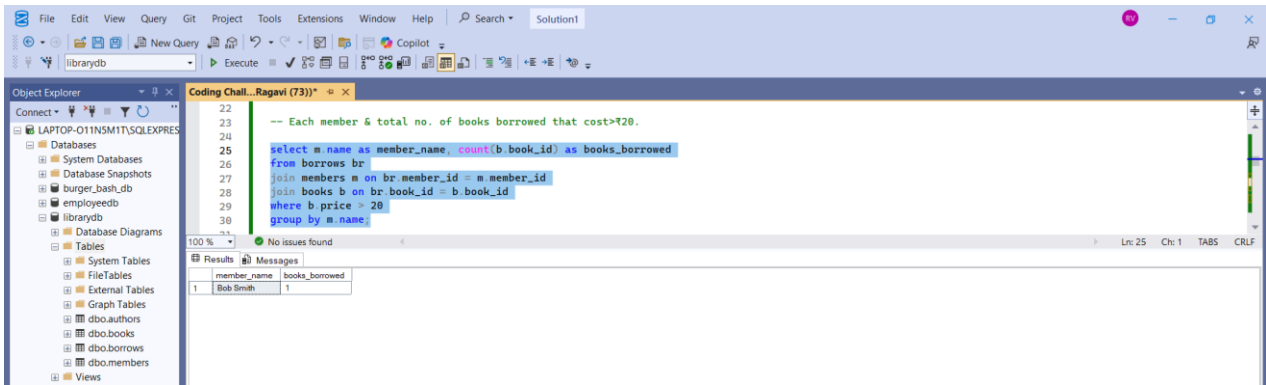
## 4. Maximum Book Price Borrowed by Each Member

Query Explanation:
Shows the **highest-priced book** borrowed by each member.

5. Show All Members & Their Borrowed Books (Full Outer Join)
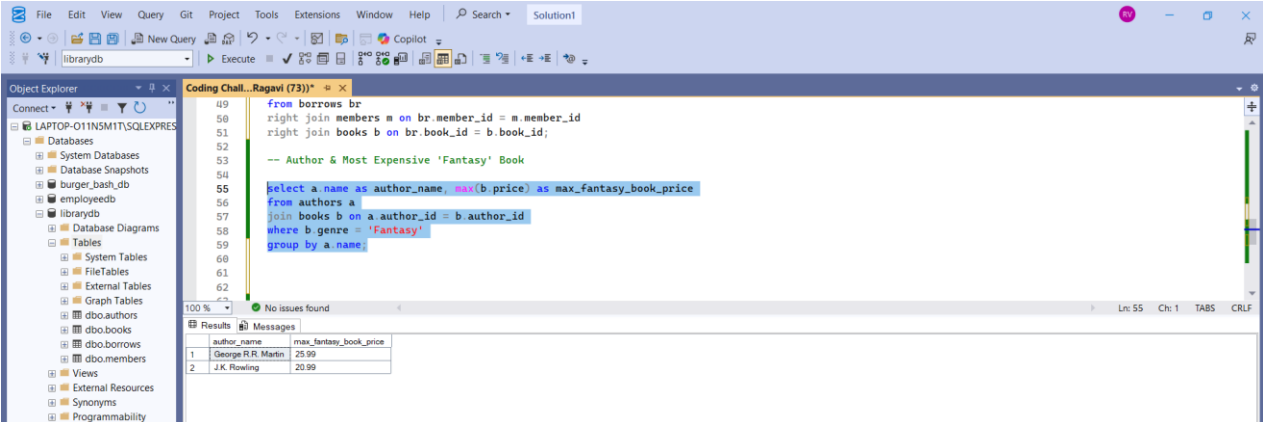
Query Explanation:
This query mimics a **FULL OUTER JOIN** using UNION. It lists all members and the books they borrowed, including those who haven't borrowed any books or books that haven't been borrowed yet.
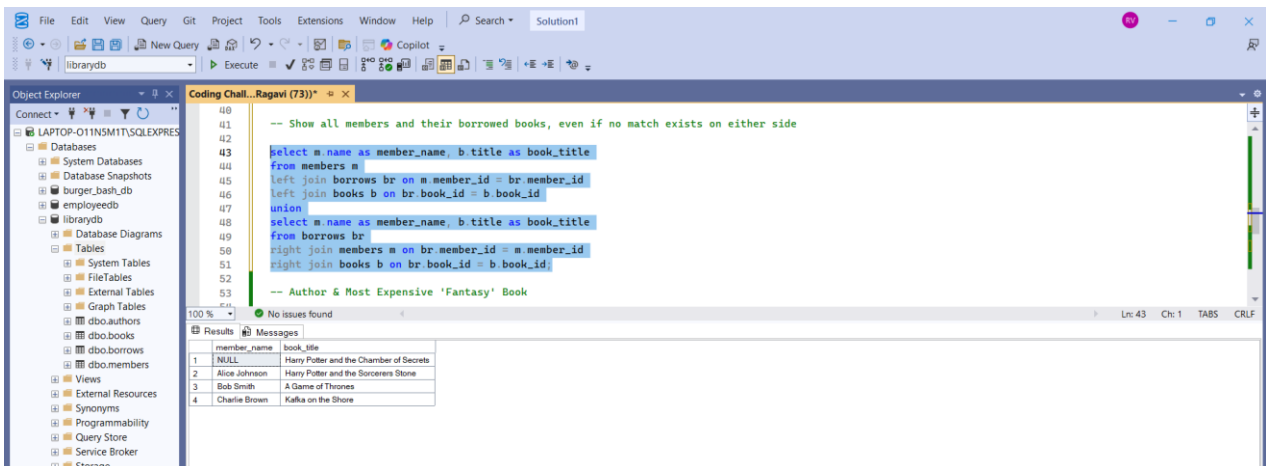
6. Author & Most Expensive 'Fantasy' Book

Query Explanation:
Finds each author's name and the **highest-priced book** they've written in the **'Fantasy'** genre.