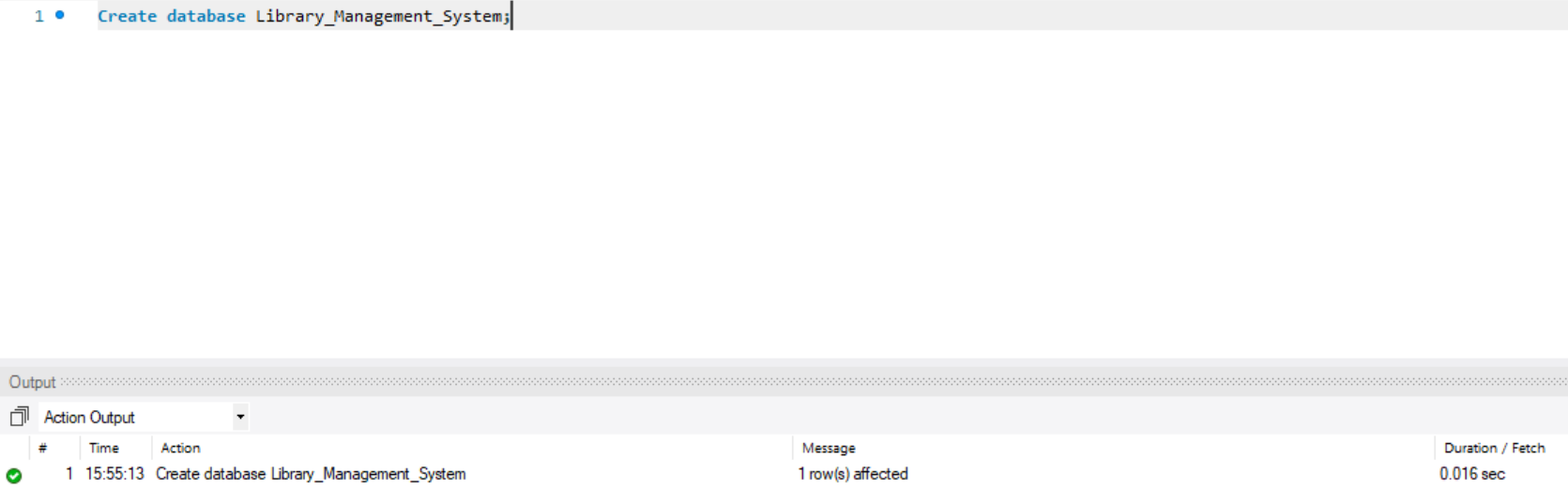
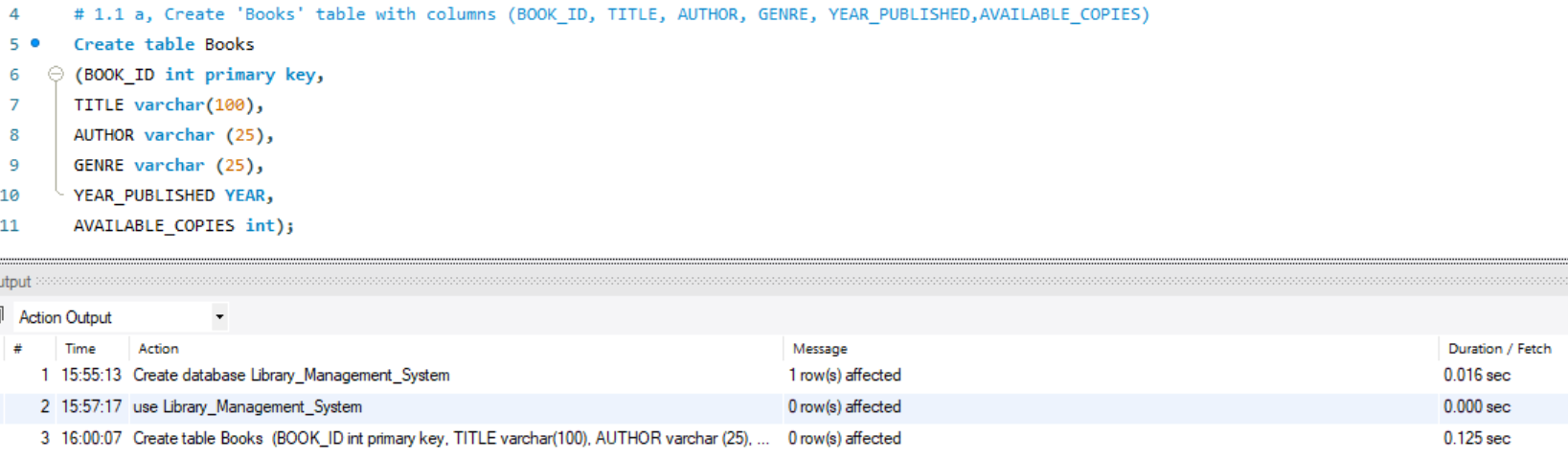
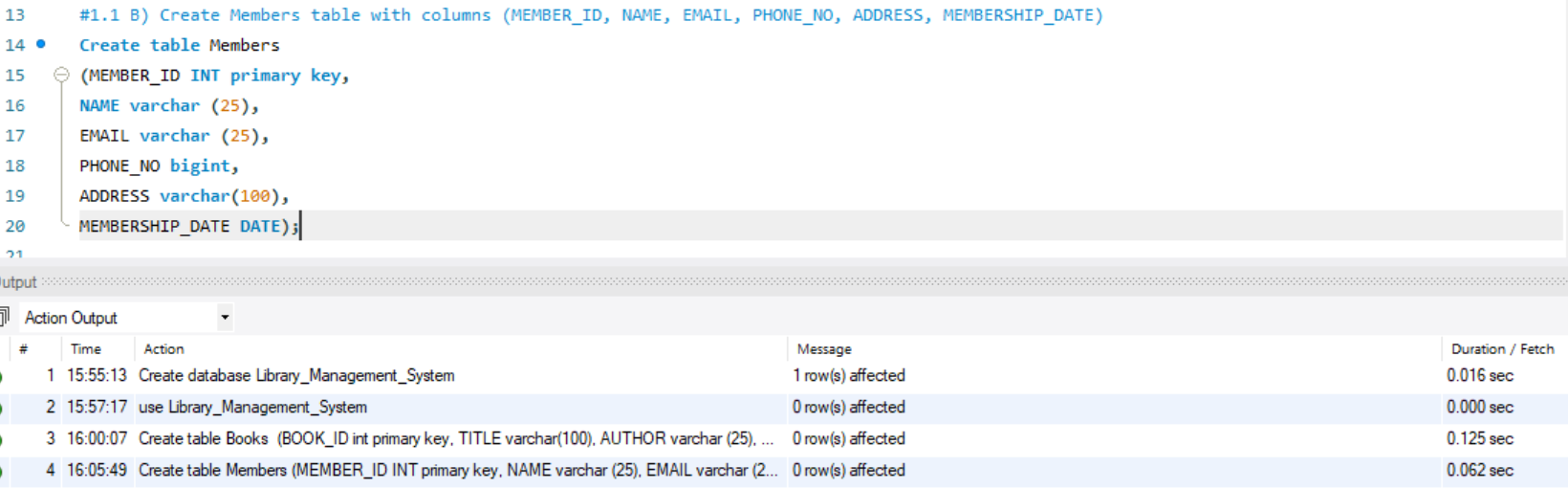
1.1: Database & Schema Creation  
  
Database: Library\_Management\_System 

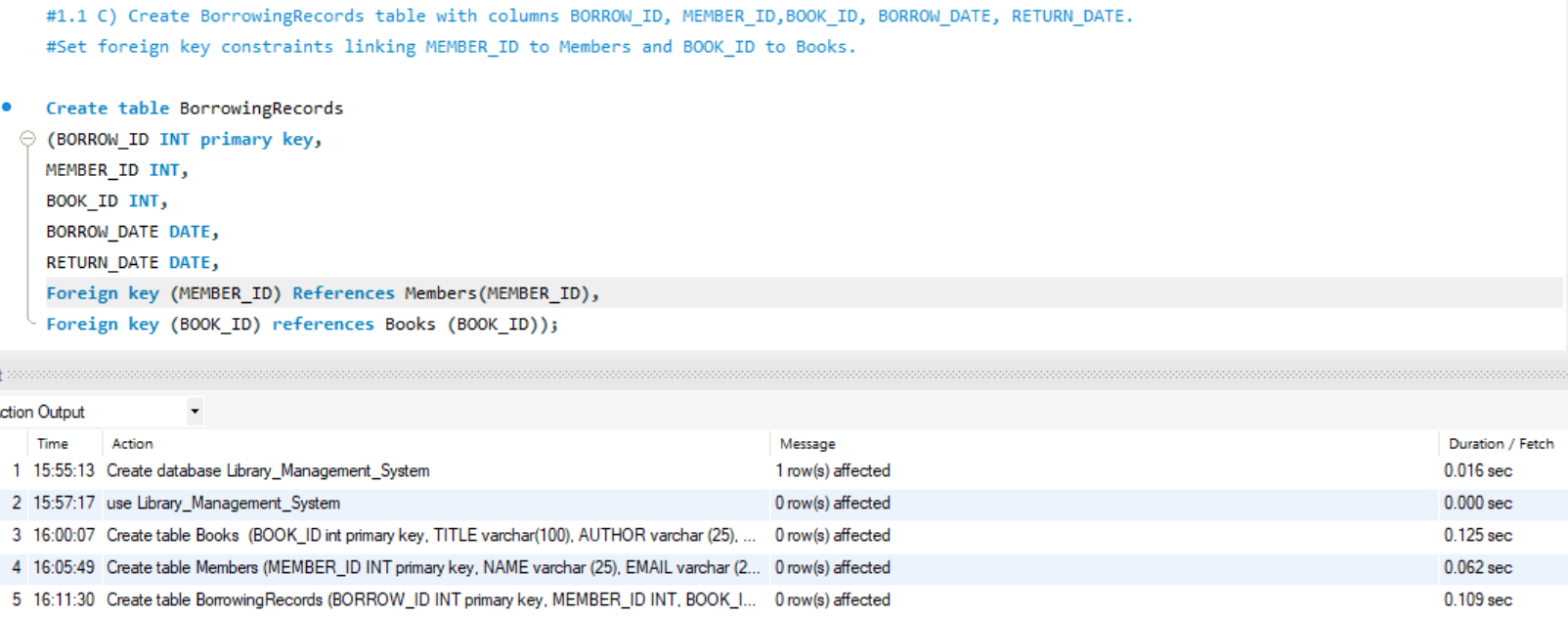
1.1 a) Create **Books** table with columns (**BOOK\_ID, TITLE, AUTHOR, GENRE, YEAR\_PUBLISHED,  
AVAILABLE\_COPIES)**  
  


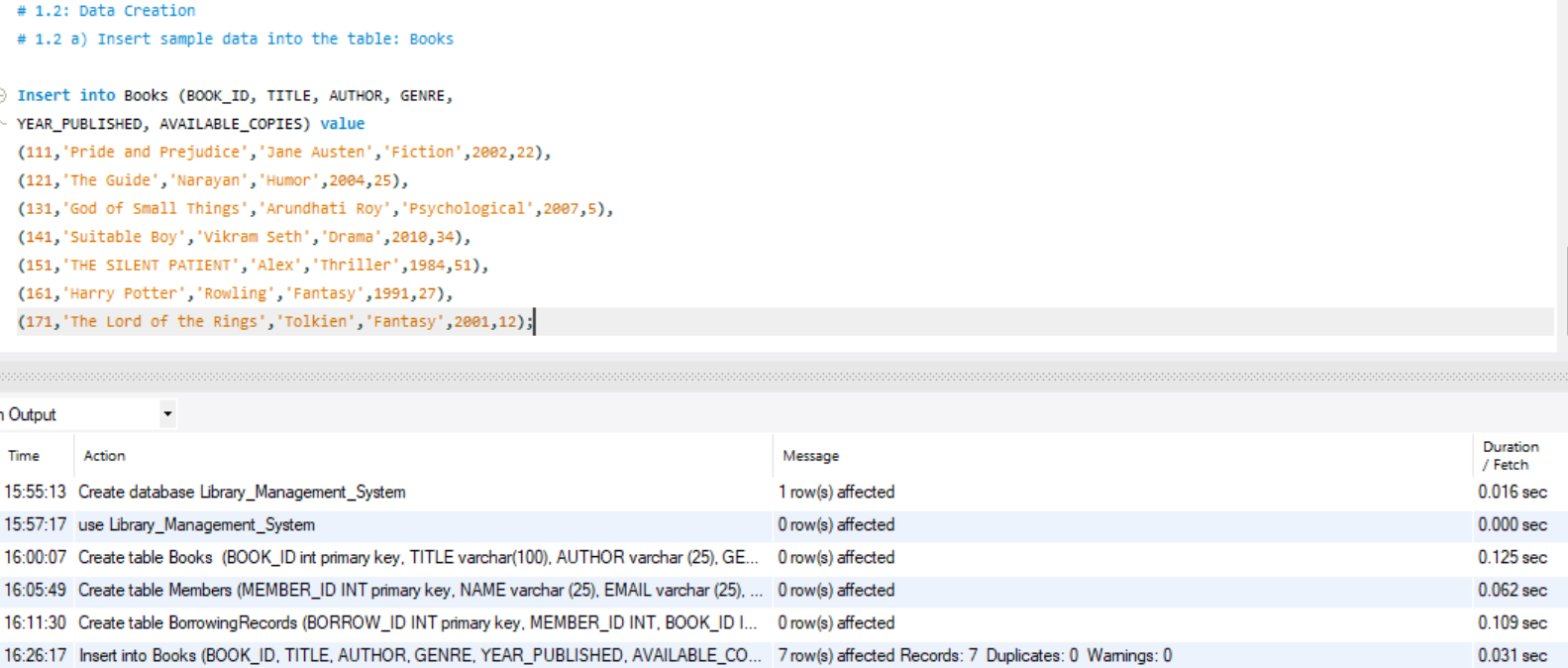
* 1. b) Create Members table with columns **(MEMBER\_ID, NAME, EMAIL, PHONE\_NO, ADDRESS, MEMBERSHIP\_DATE)**



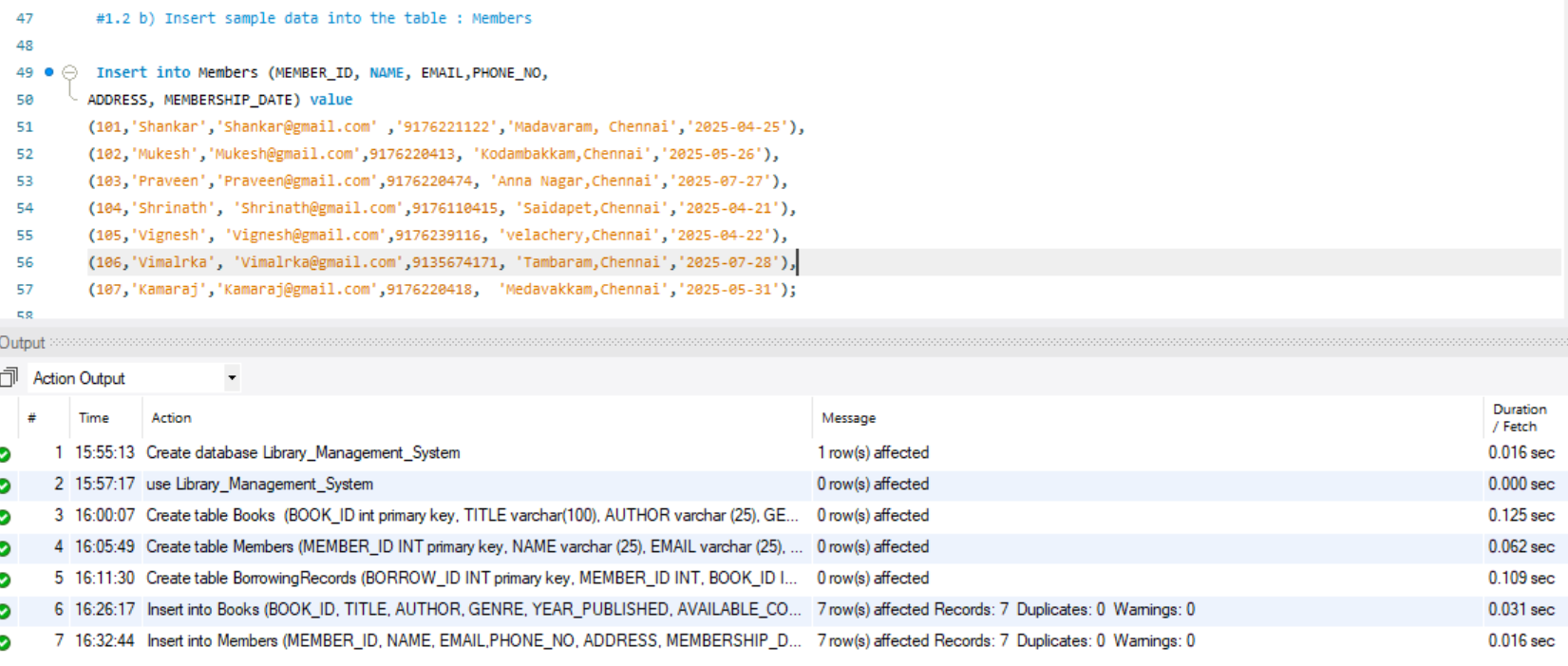
1.1 C) Create BorrowingRecords table with columns **BORROW\_ID, MEMBER\_ID,**

**BOOK\_ID, BORROW\_DATE, RETURN\_DATE**.   
Set foreign key constraints linking MEMBER\_ID to Members and BOOK\_ID to Books.

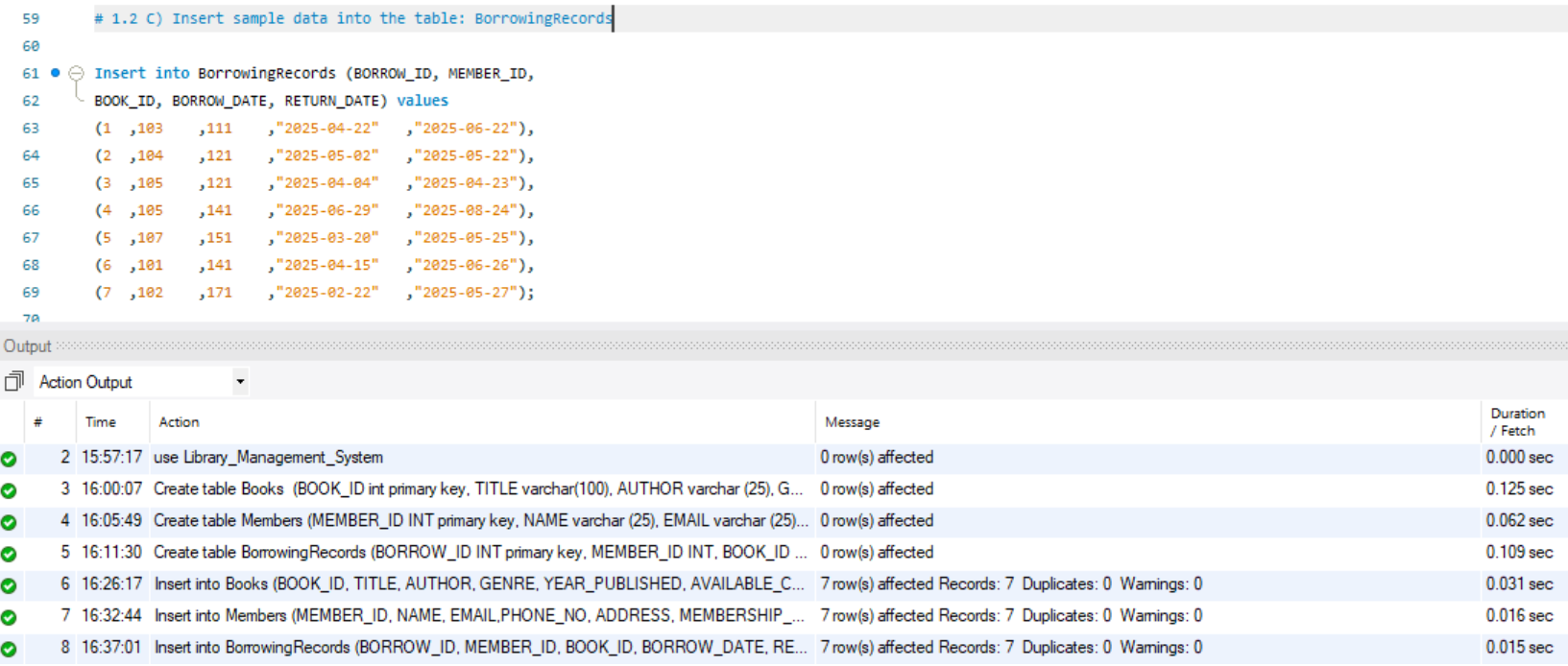
  
  
  
1.2: Data Creation  
1.2 a) Insert sample data into the table: **Books**

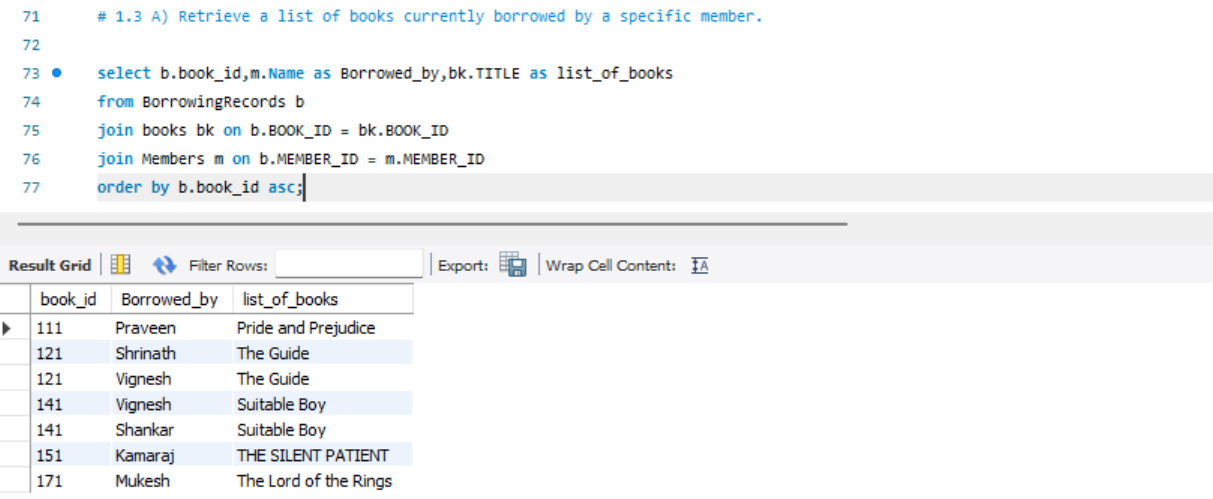


* 1. b) Insert sample data into the table: **Members**

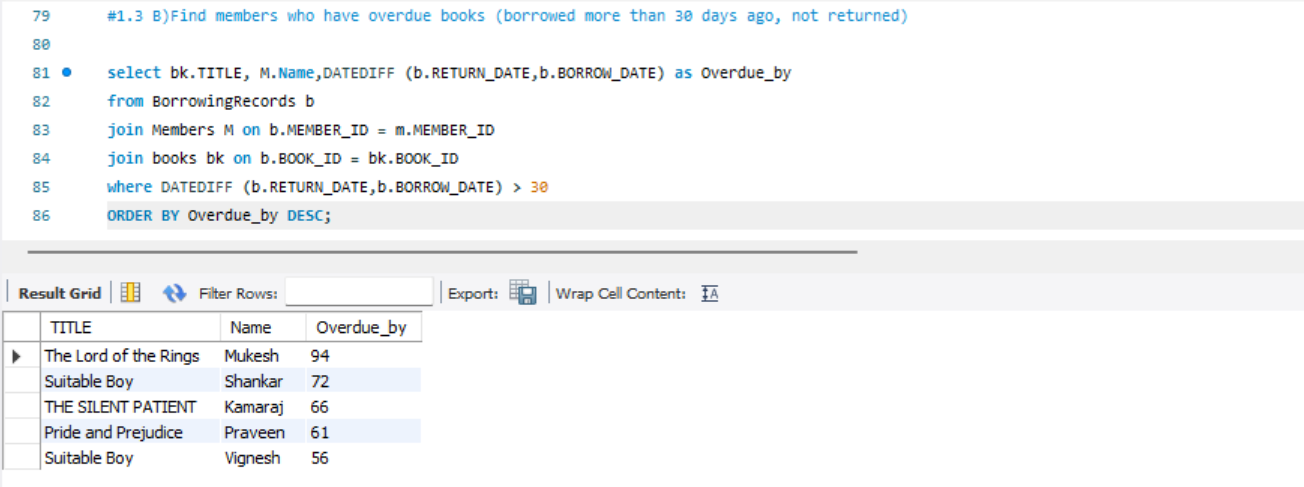


* 1. C) Insert sample data into thetable: **BorrowingRecords**

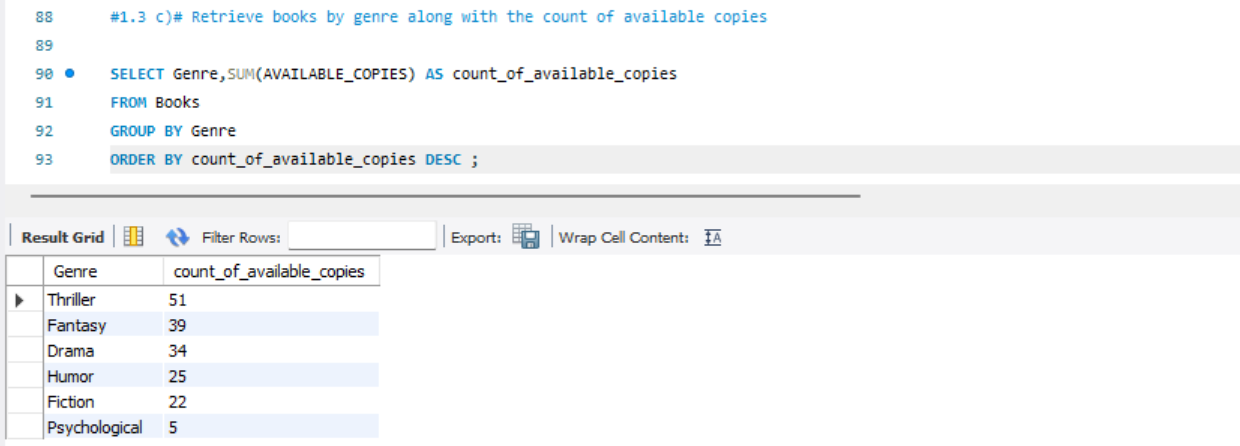
****

**1.3: Information Retrieval**  
1.3 a) Retrieve a list of books currently borrowed by a specific member.  
  
****

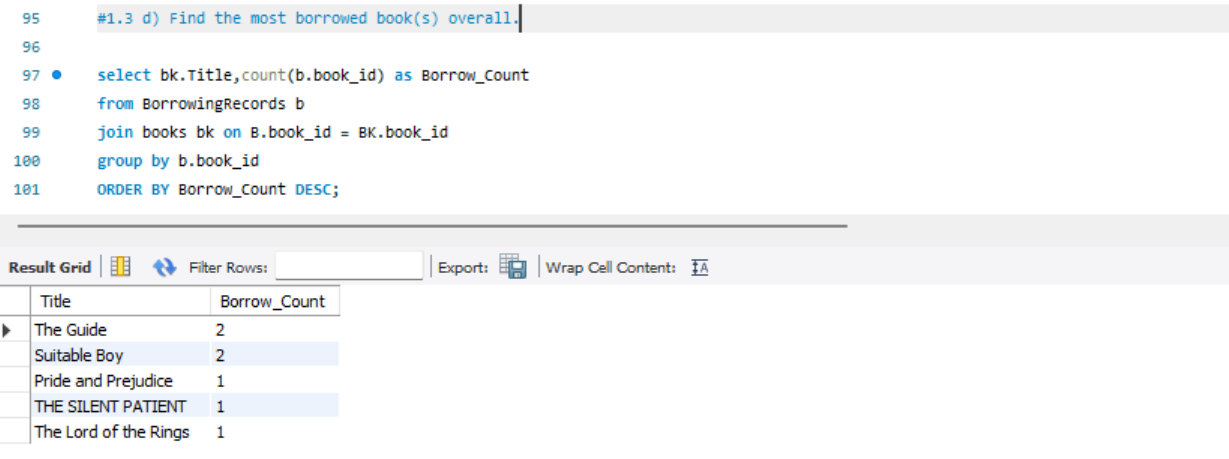
1.3 b) Find members who have overdue books (borrowed more than 30 days ago, not returned)



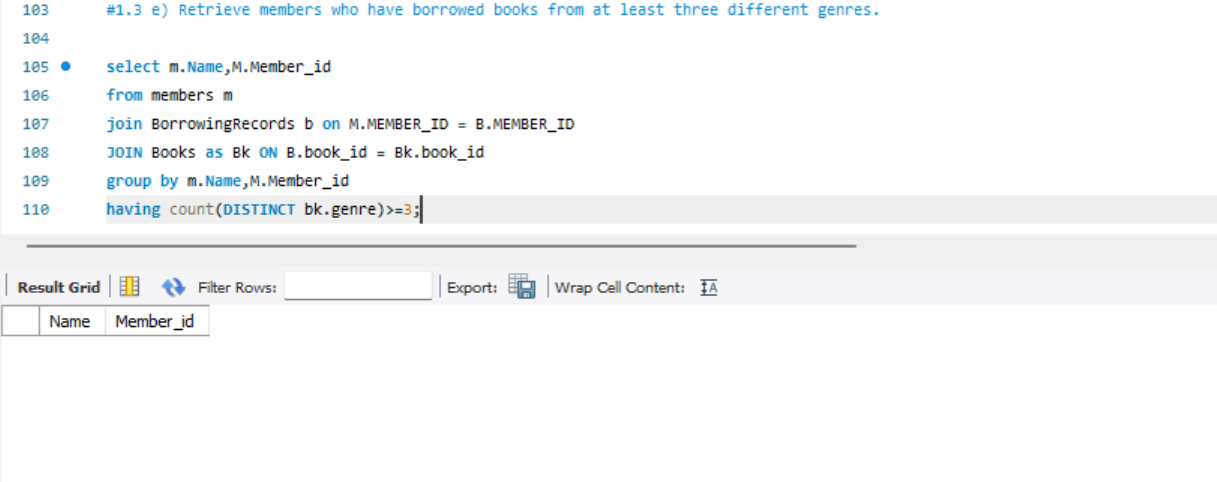
* 1. c) Retrieve books by genre along with the count of available copies.

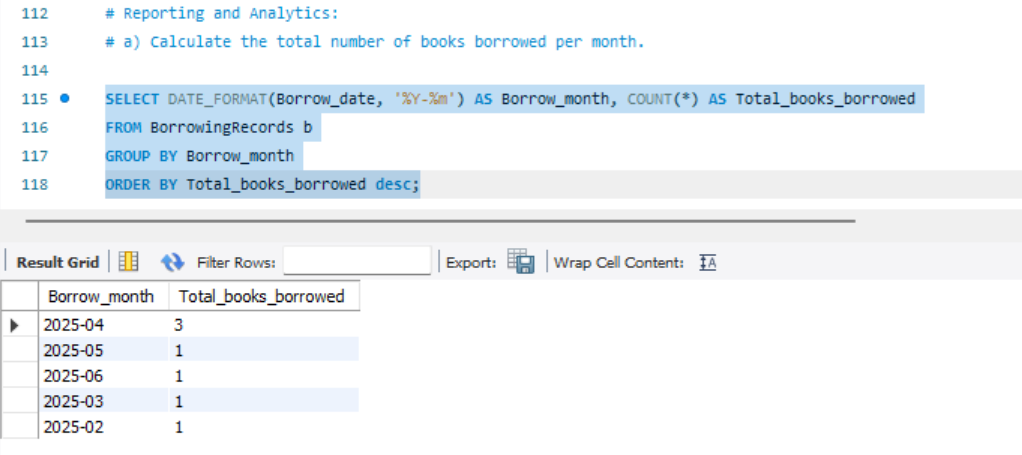


1.3 d) Find the most borrowed book(s) overall.



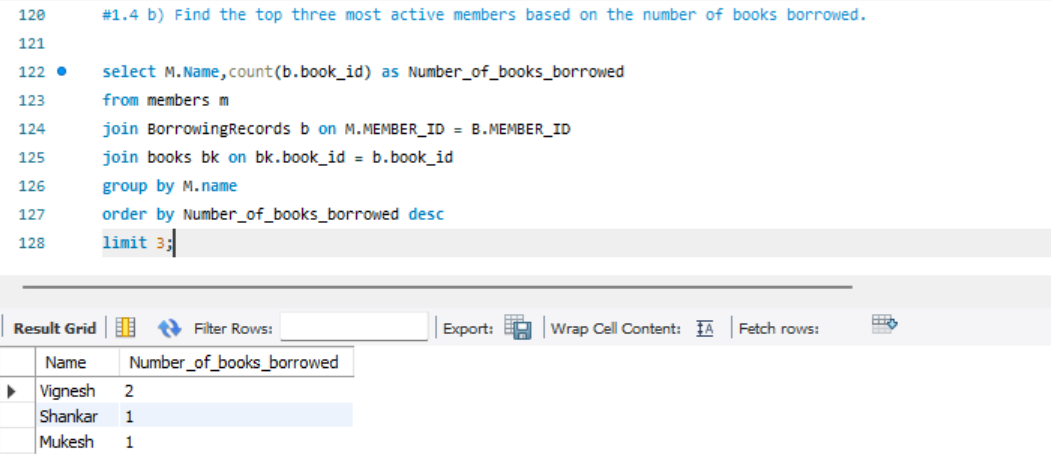
* 1. e) Retrieve members who have borrowed books from at least three different genres.

  
**1.4 Reporting and Analytics:**  
1.4 a) Calculate the total number of books borrowed per month.

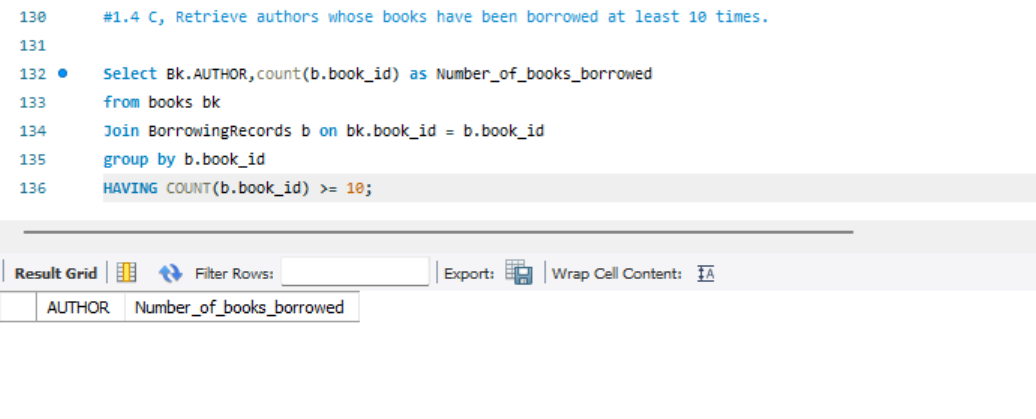


1.4 b) Find the top three most active members based on the number of books

borrowed.



1.4 C) Retrieve authors whose books have been borrowed at least 10 times.



* 1. d) Identify members who have never borrowed a book.

