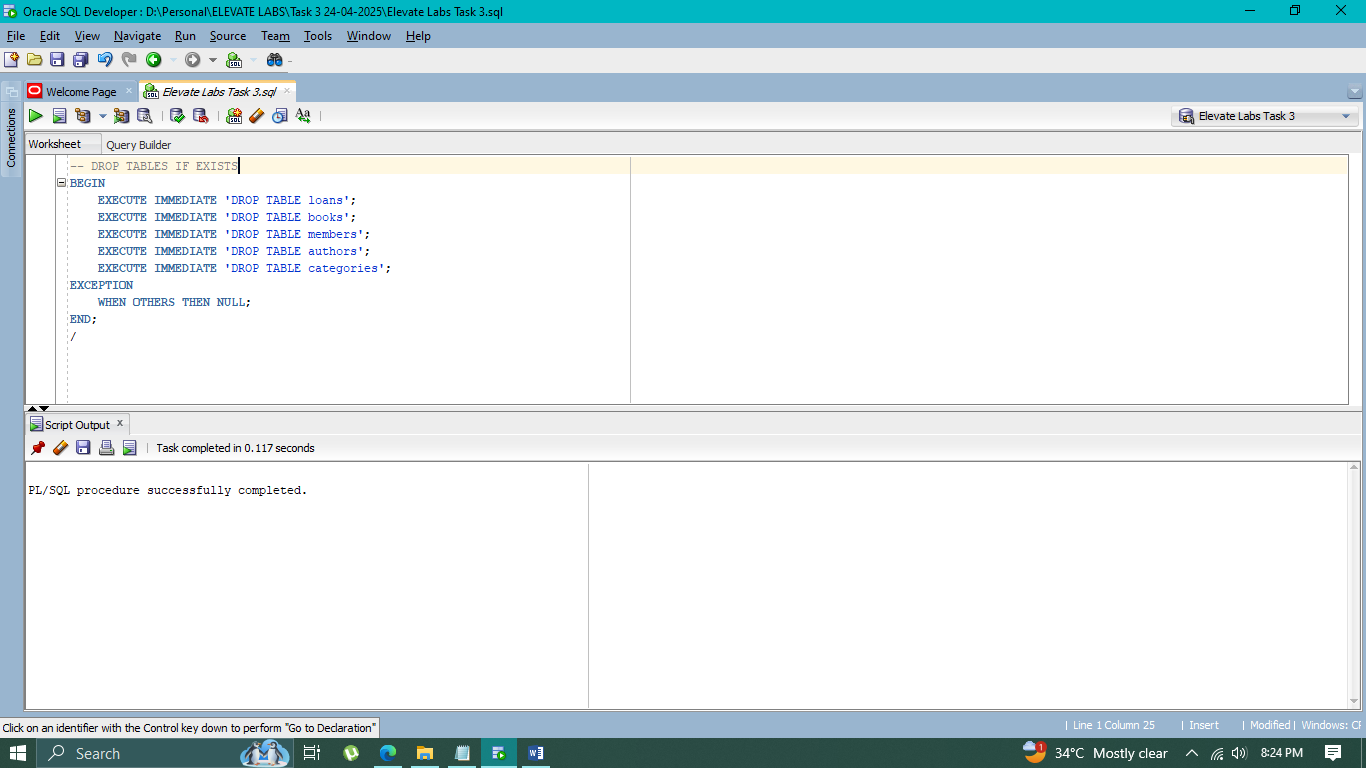
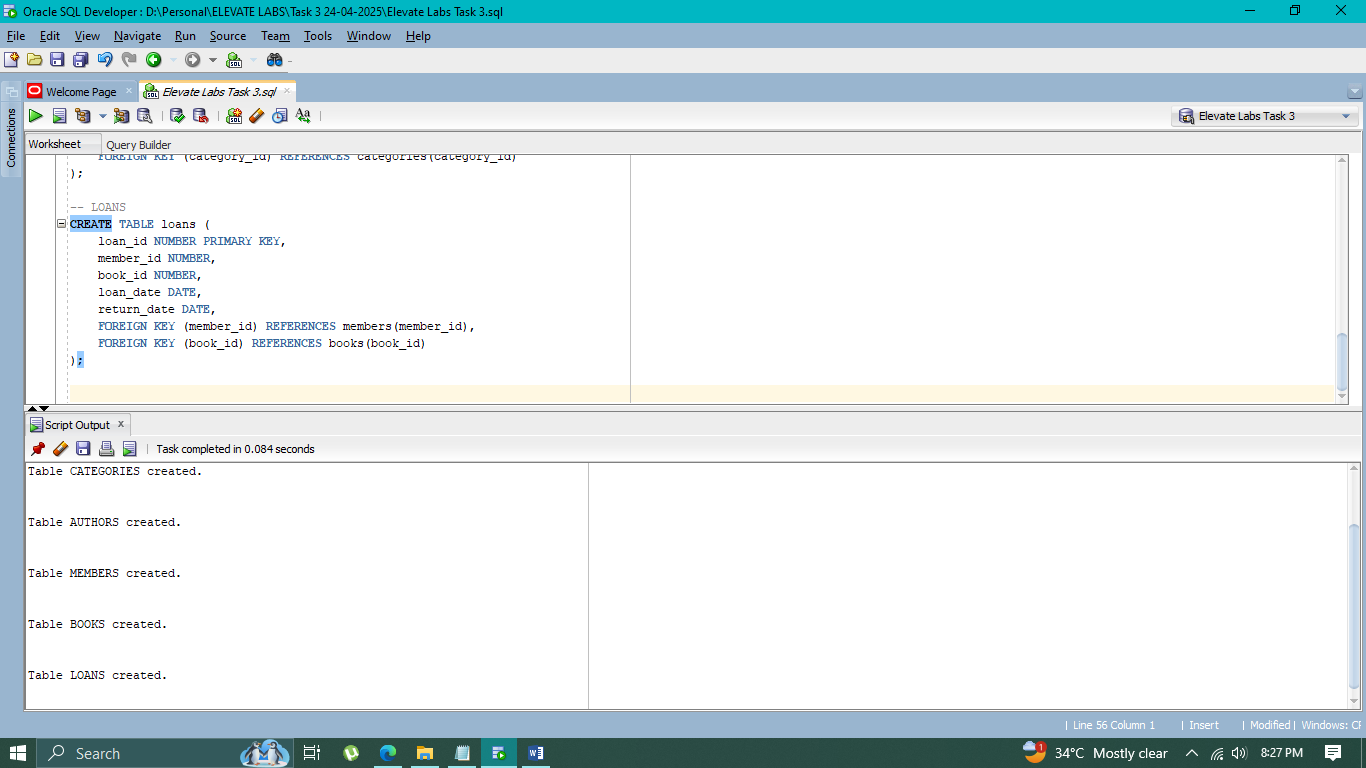
**Step 1: Deleting any previous tables with the same name**

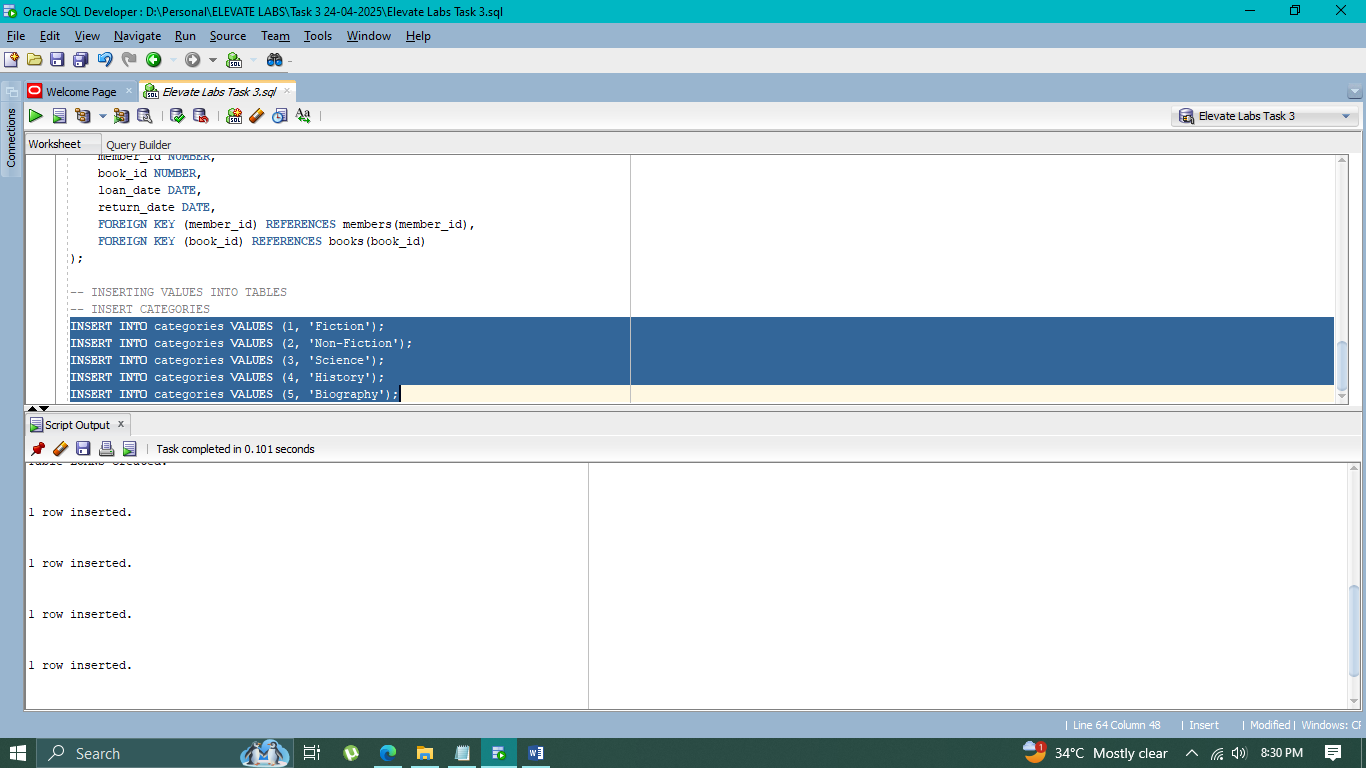


**Step 2: Creating Tables:**

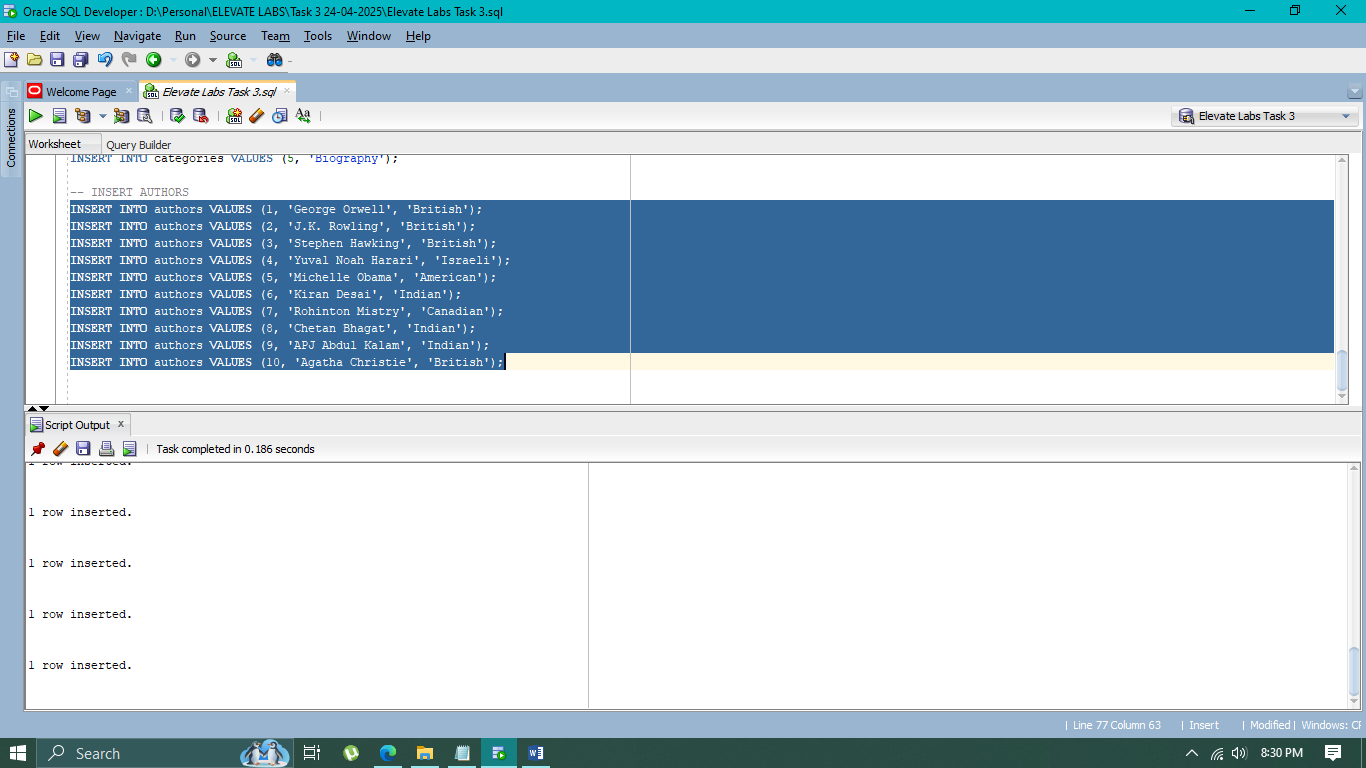


**Step 3:**

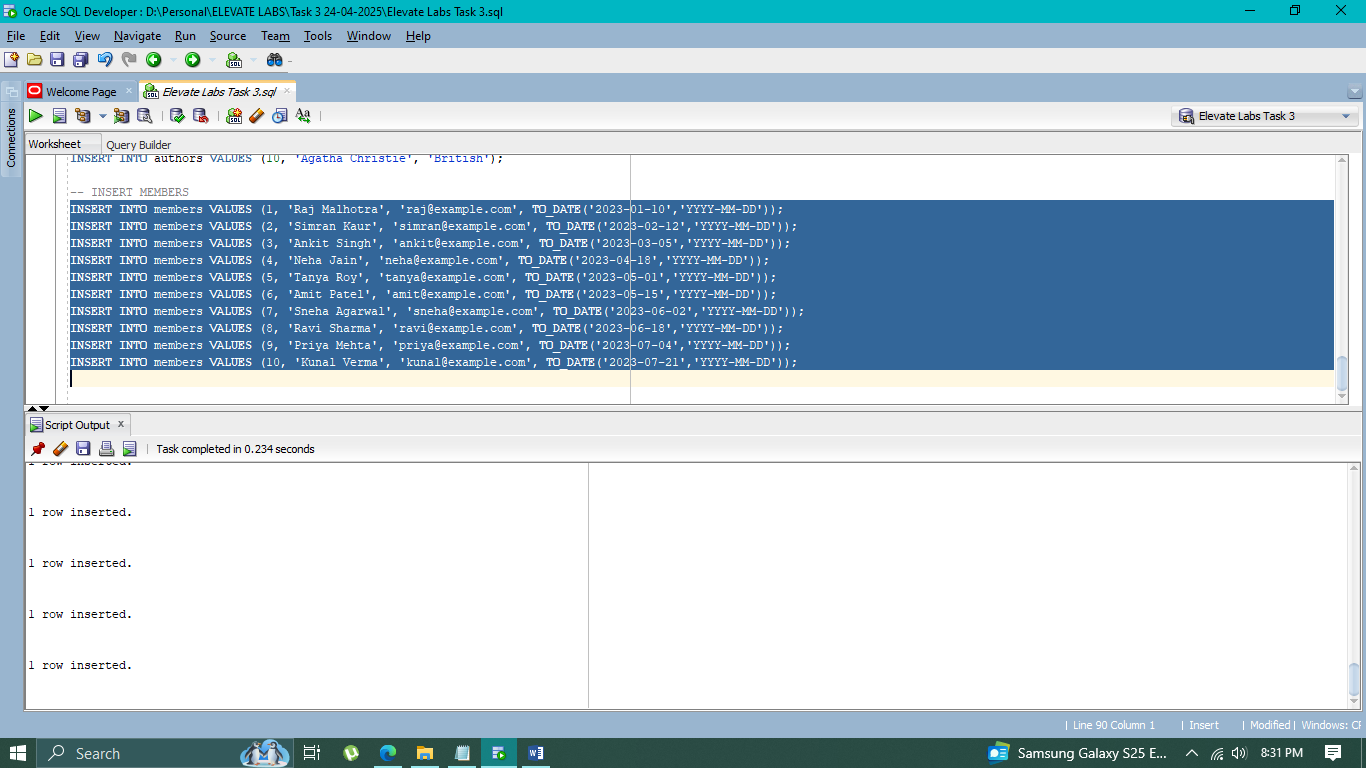
* **Inserting values into “Categories”**



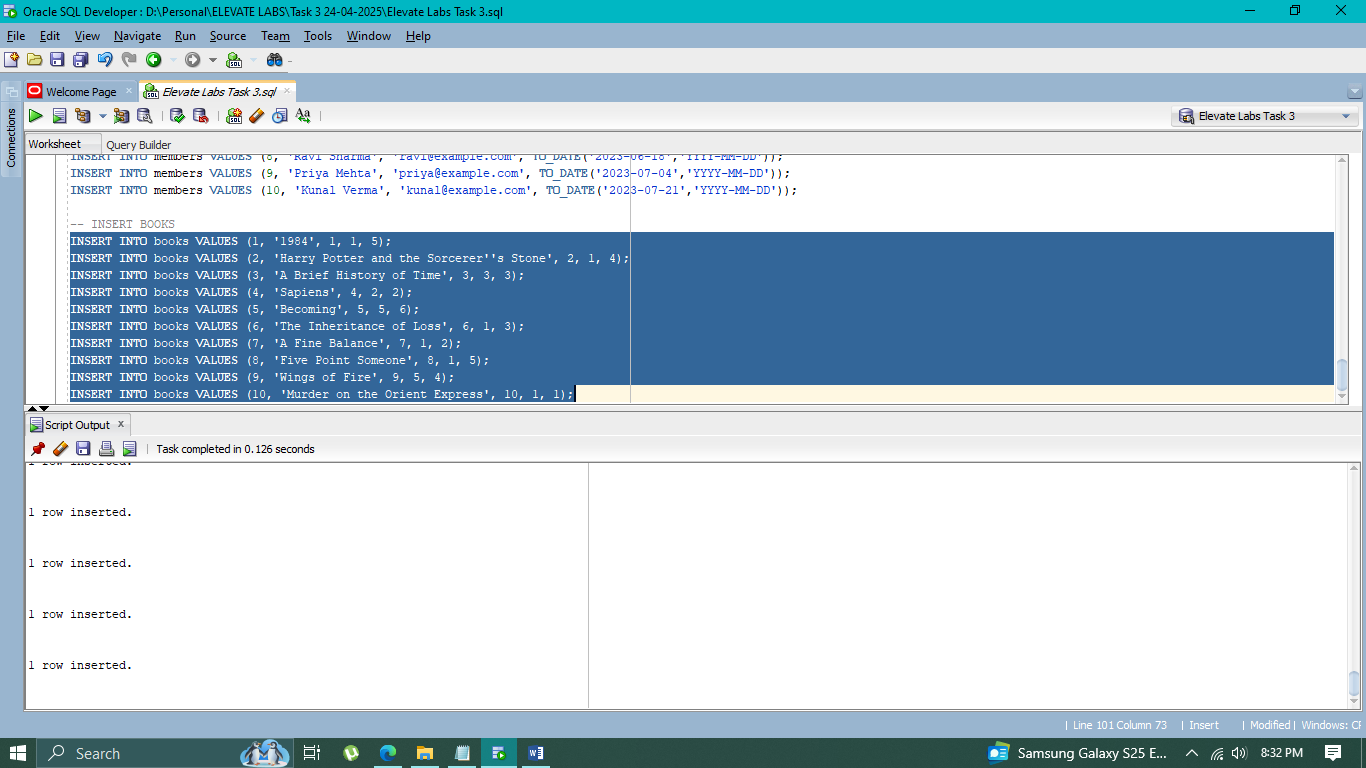
* **Inserting values into “Authors”**



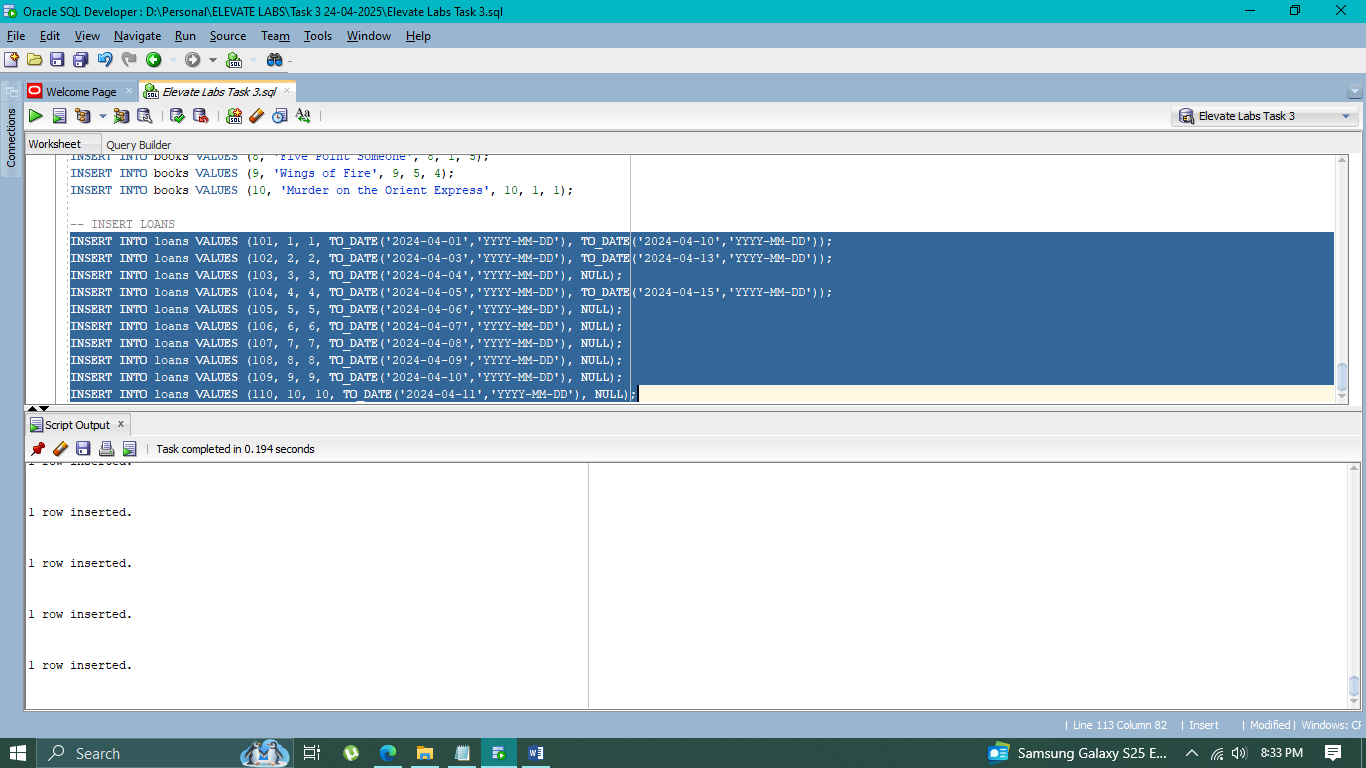
* **Inserting values into “Members”**



* **Inserting values into “Books”**

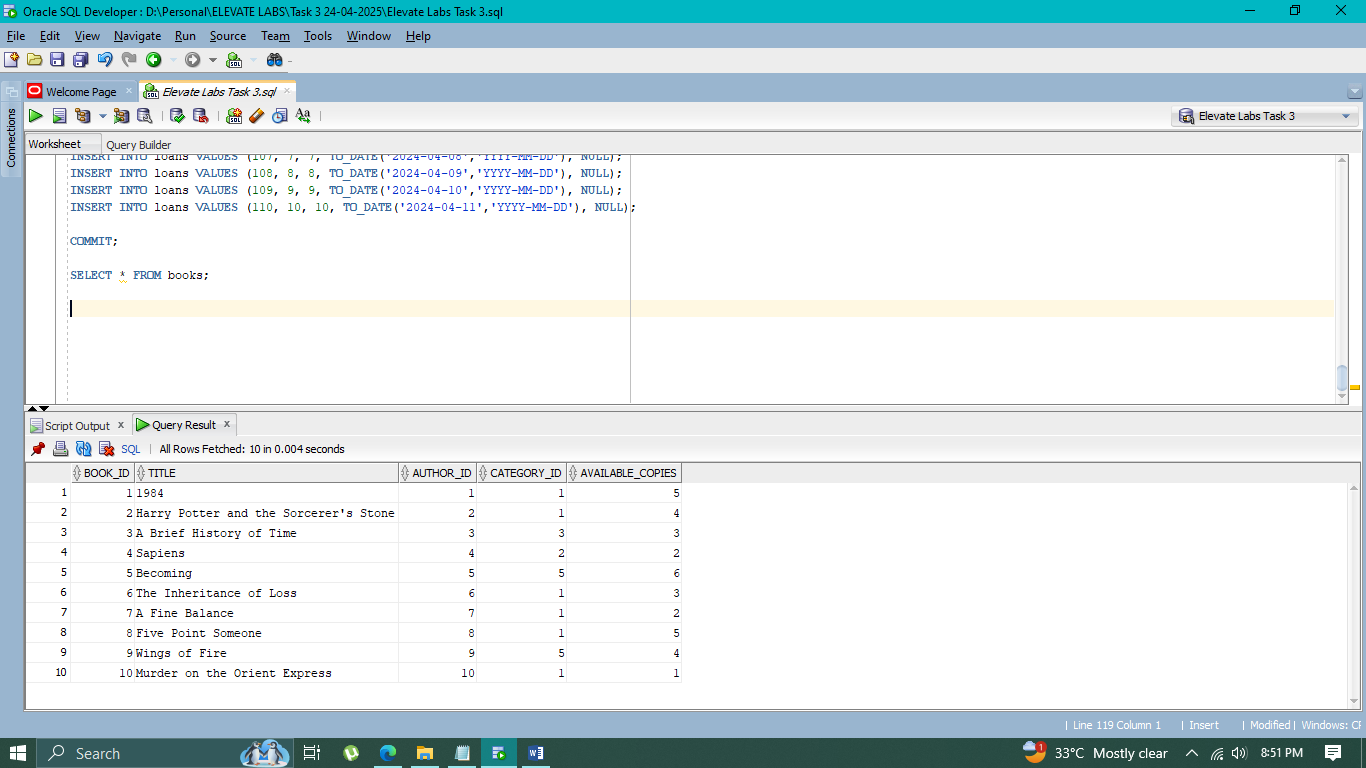


* **Inserting values into “Loans”**

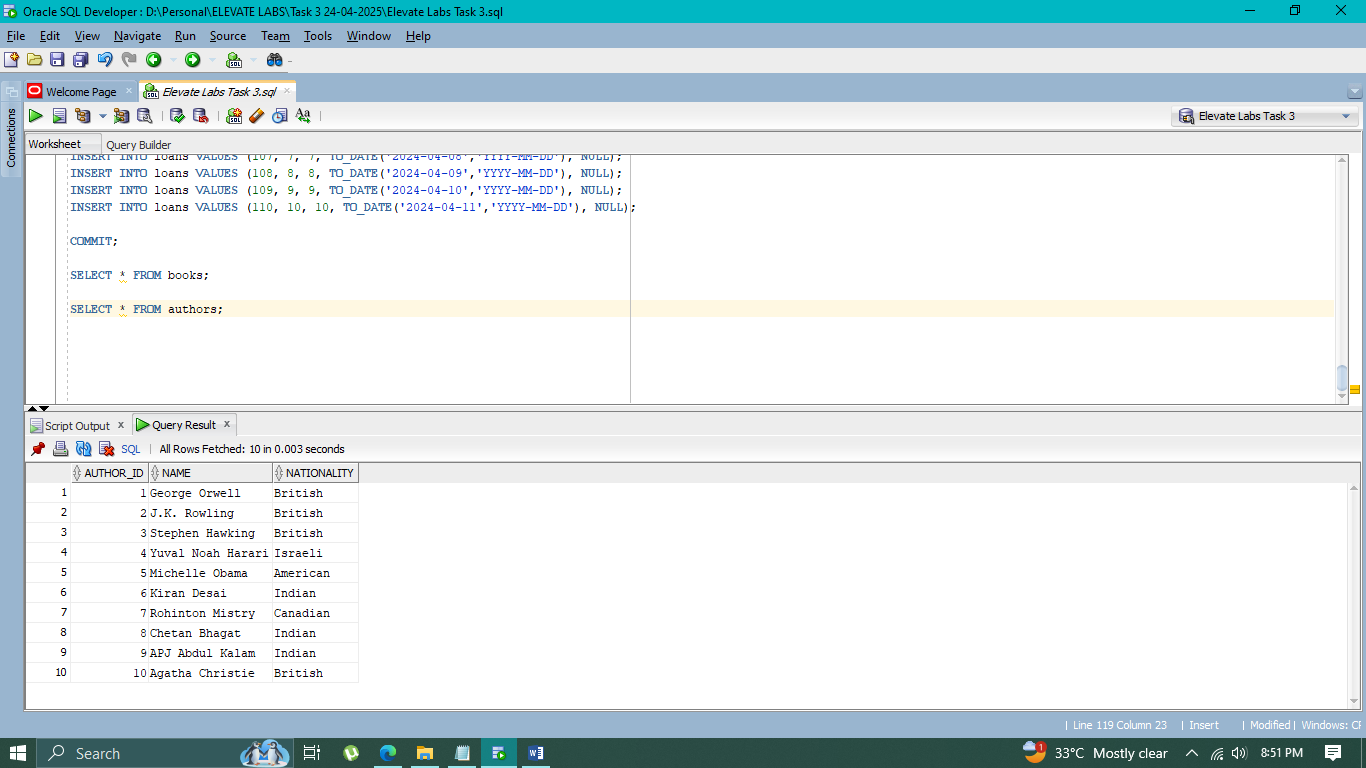


**Step 3: Checking if tables are created properly**

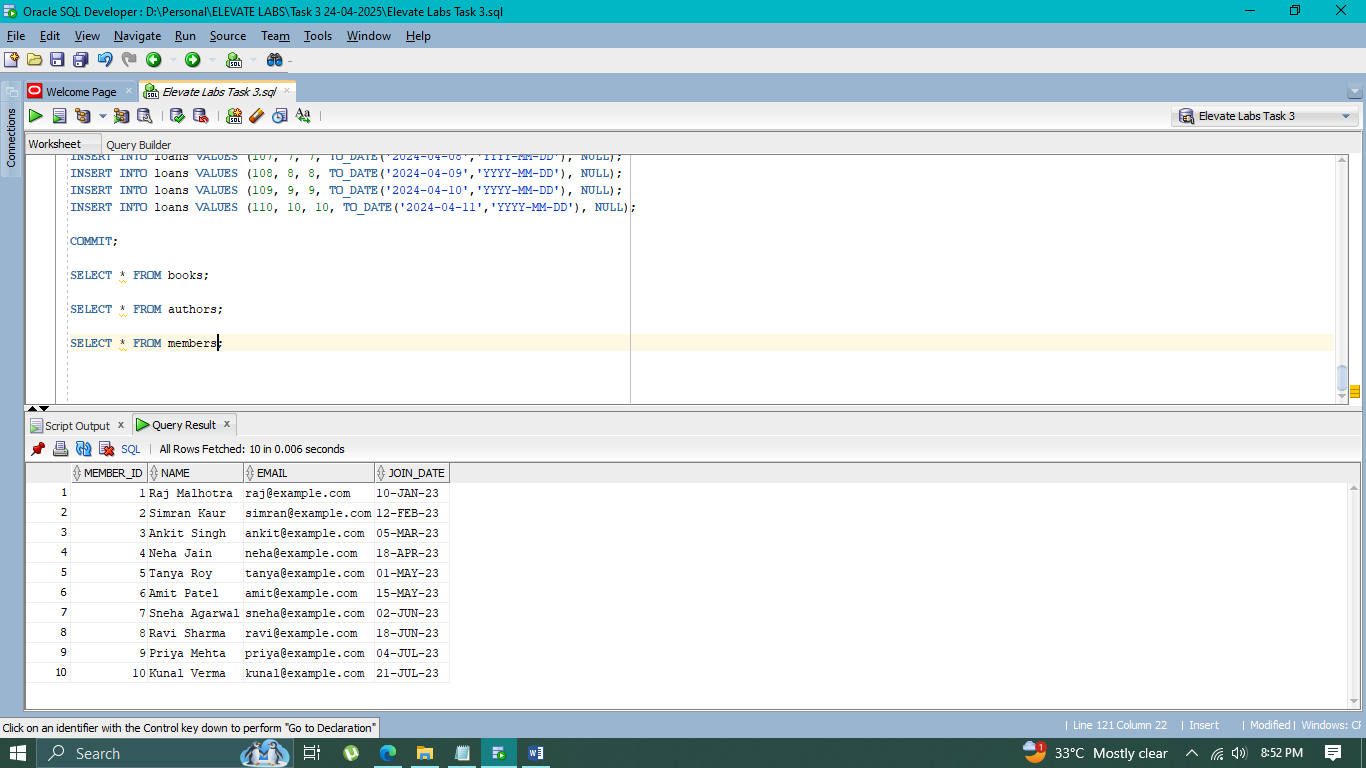
* **Books**



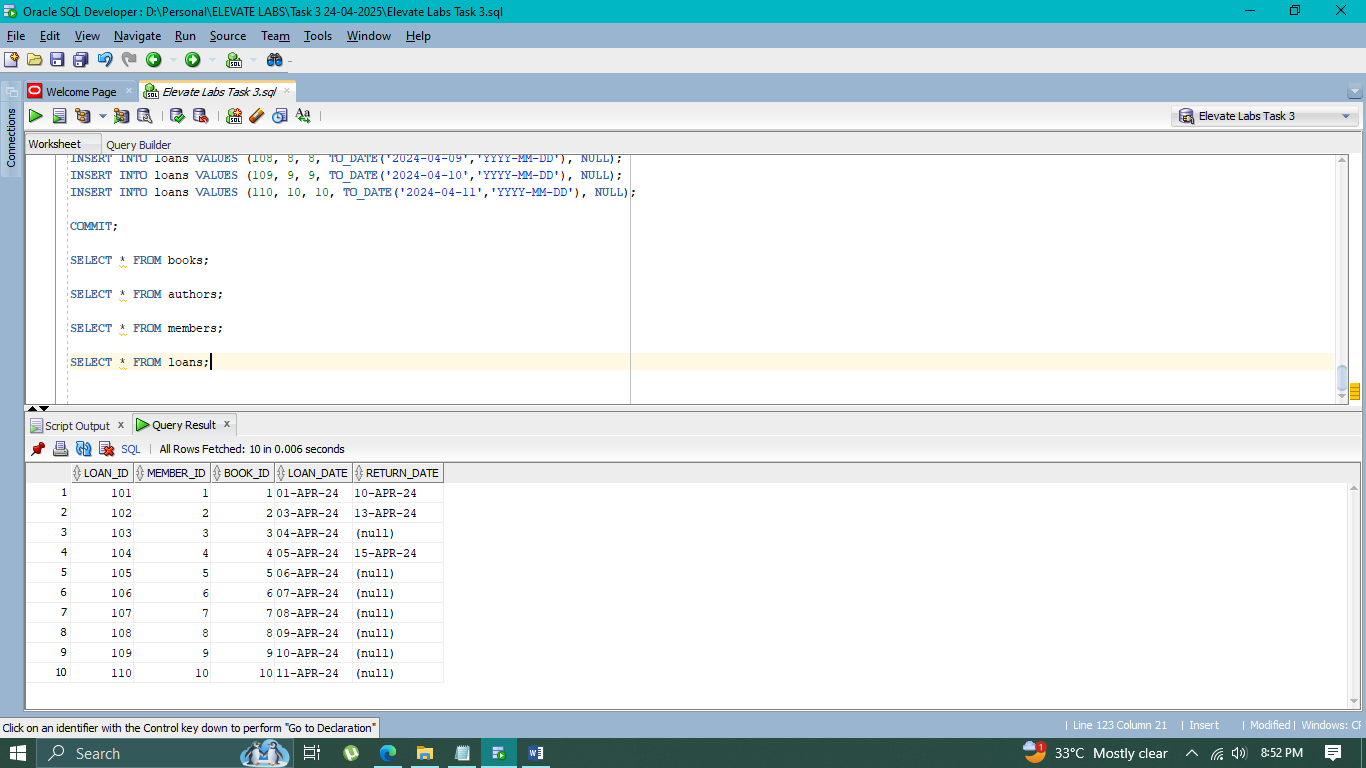
* **Authors**



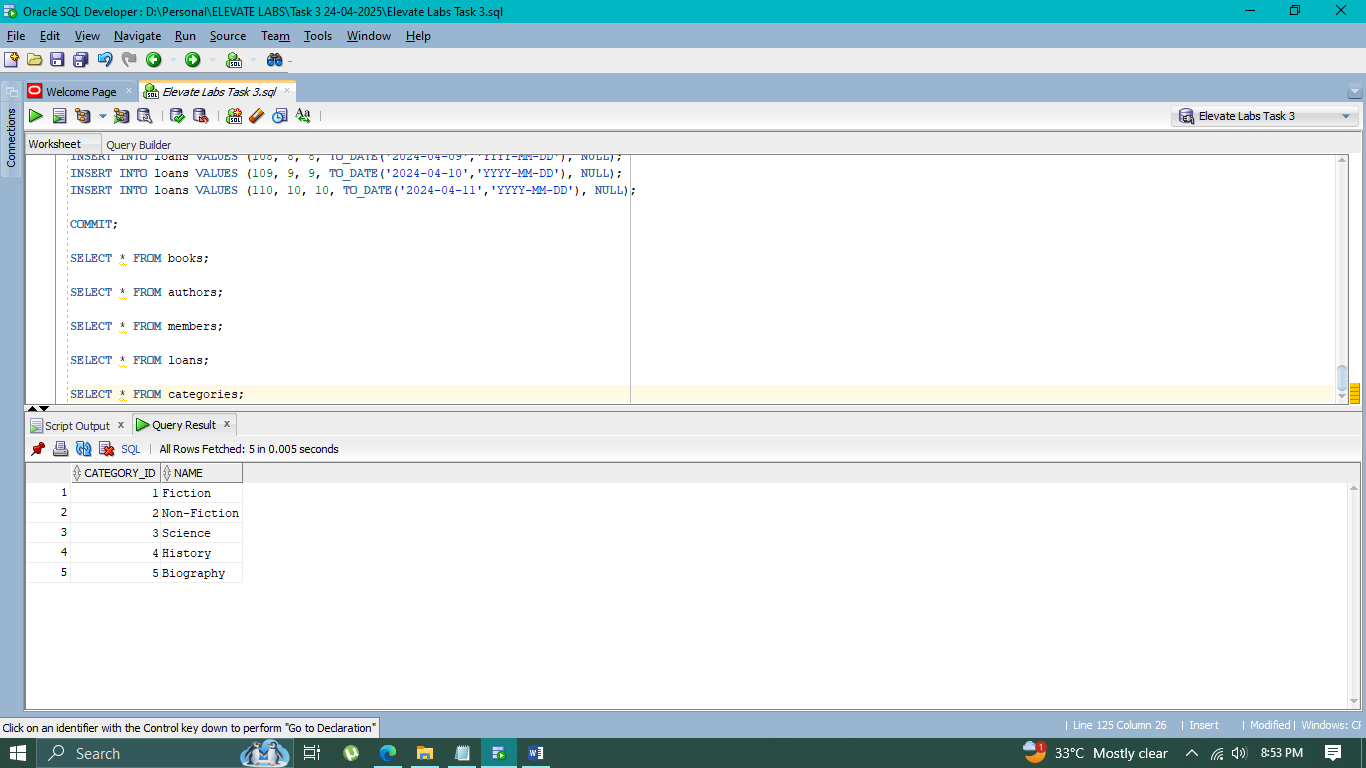
* **Members**



* **Loans**

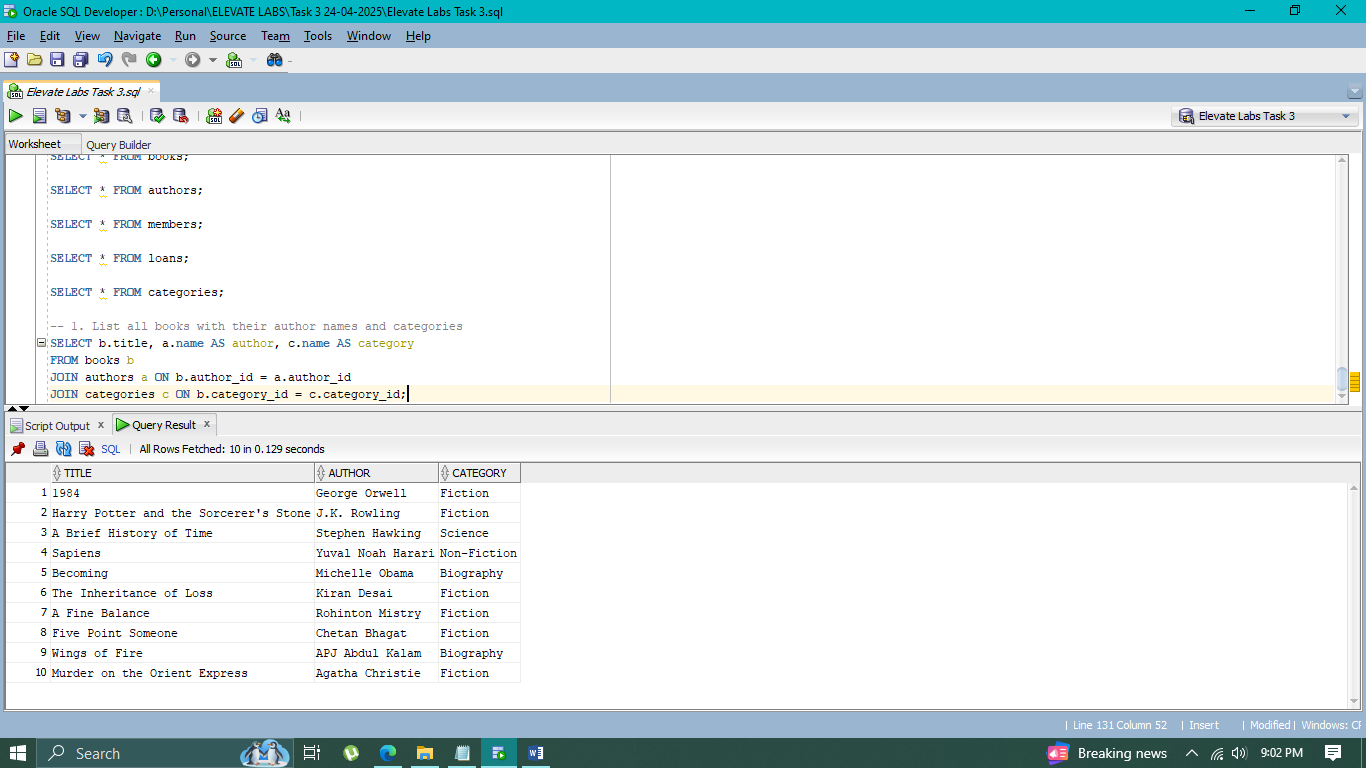


* **Categories**

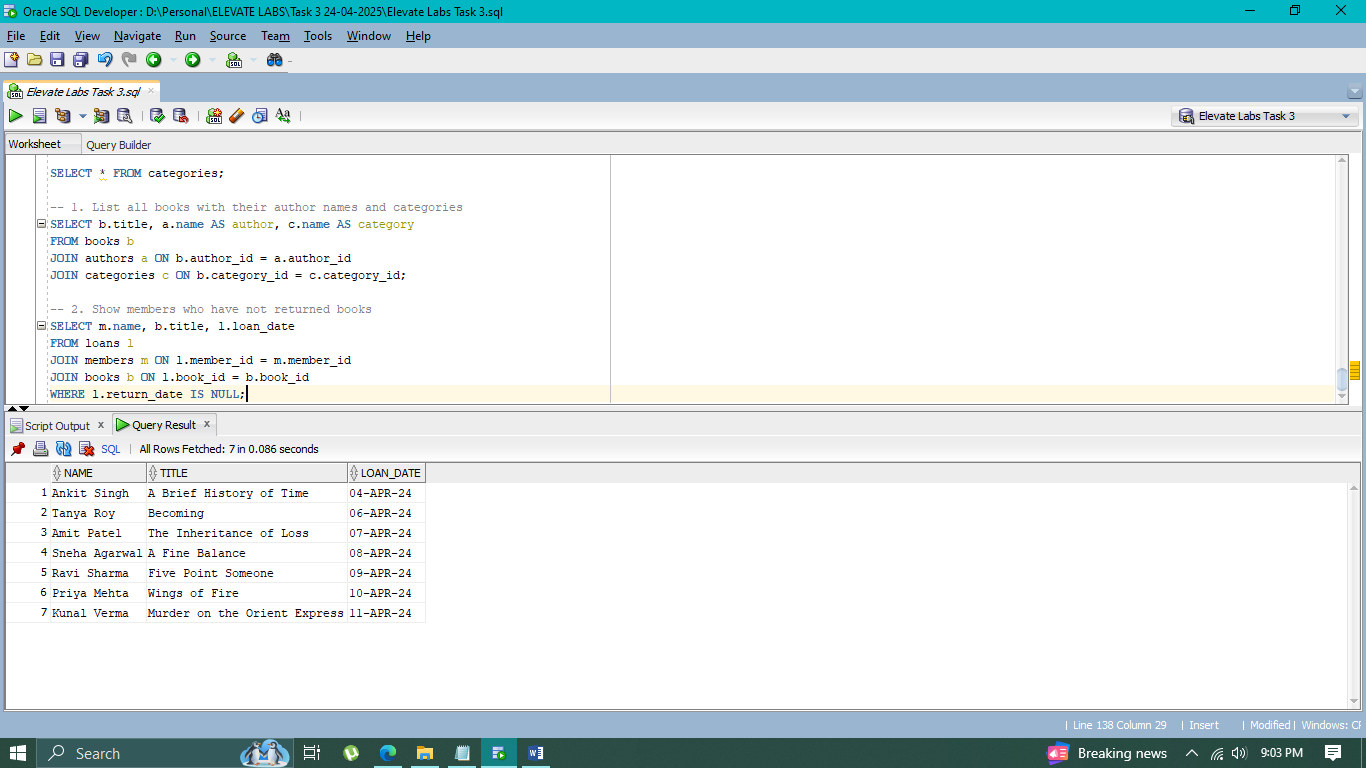


**Step 4: Queries**

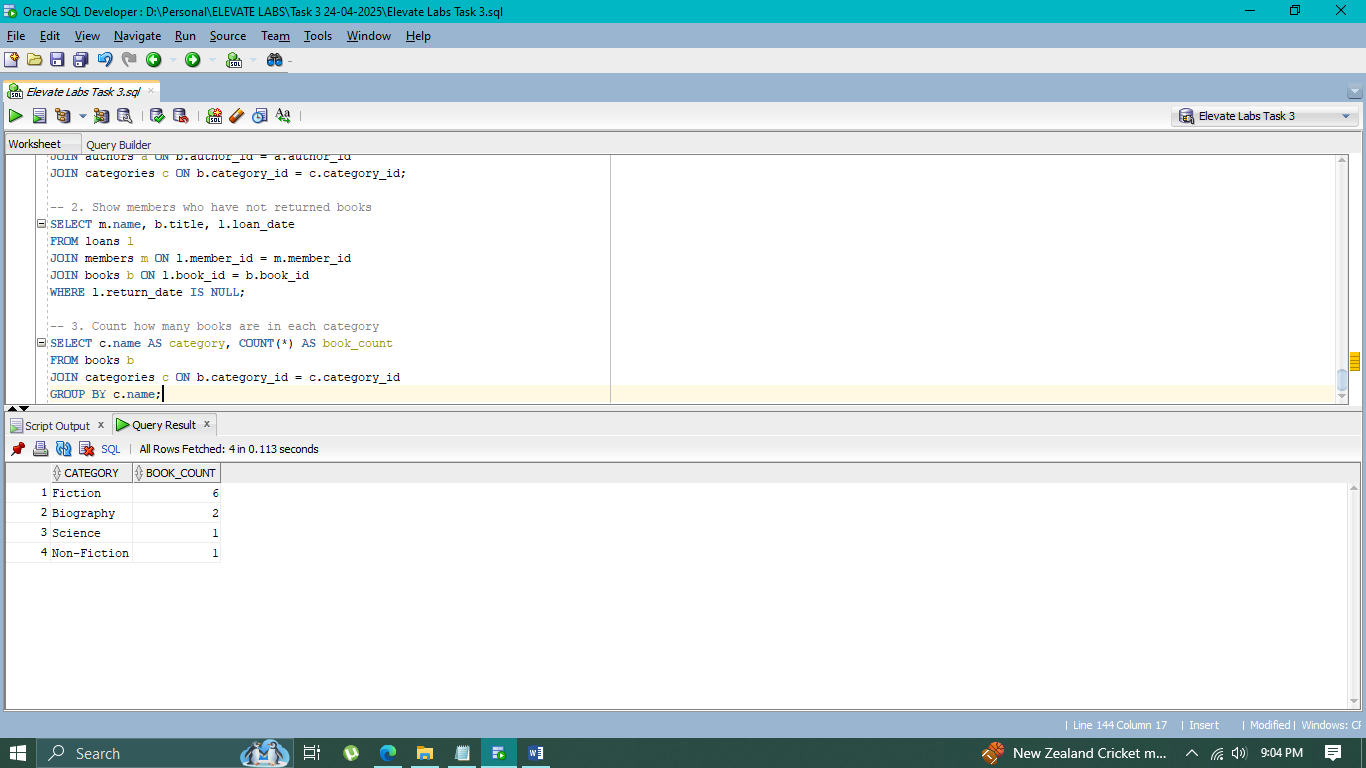
**1. List all books with their author names and categories**



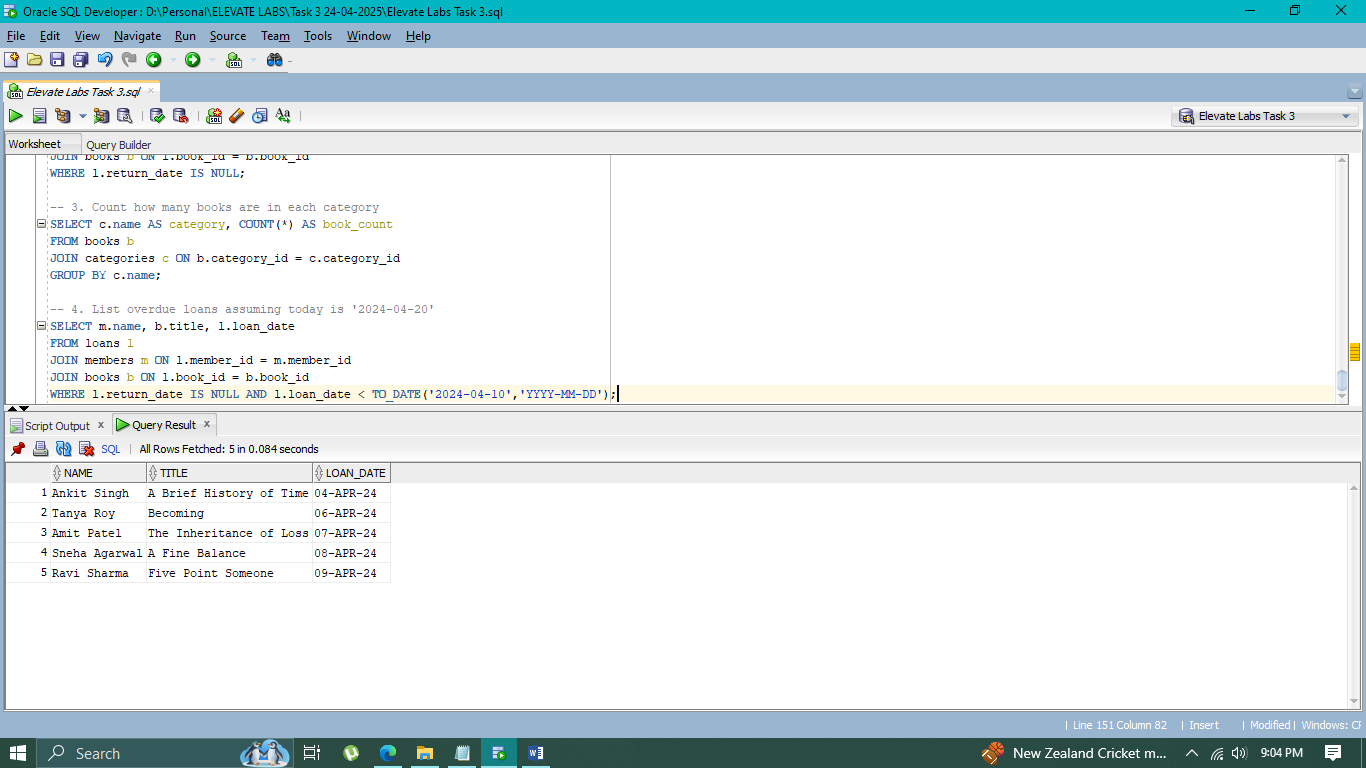
**2. Show members who have not returned books**



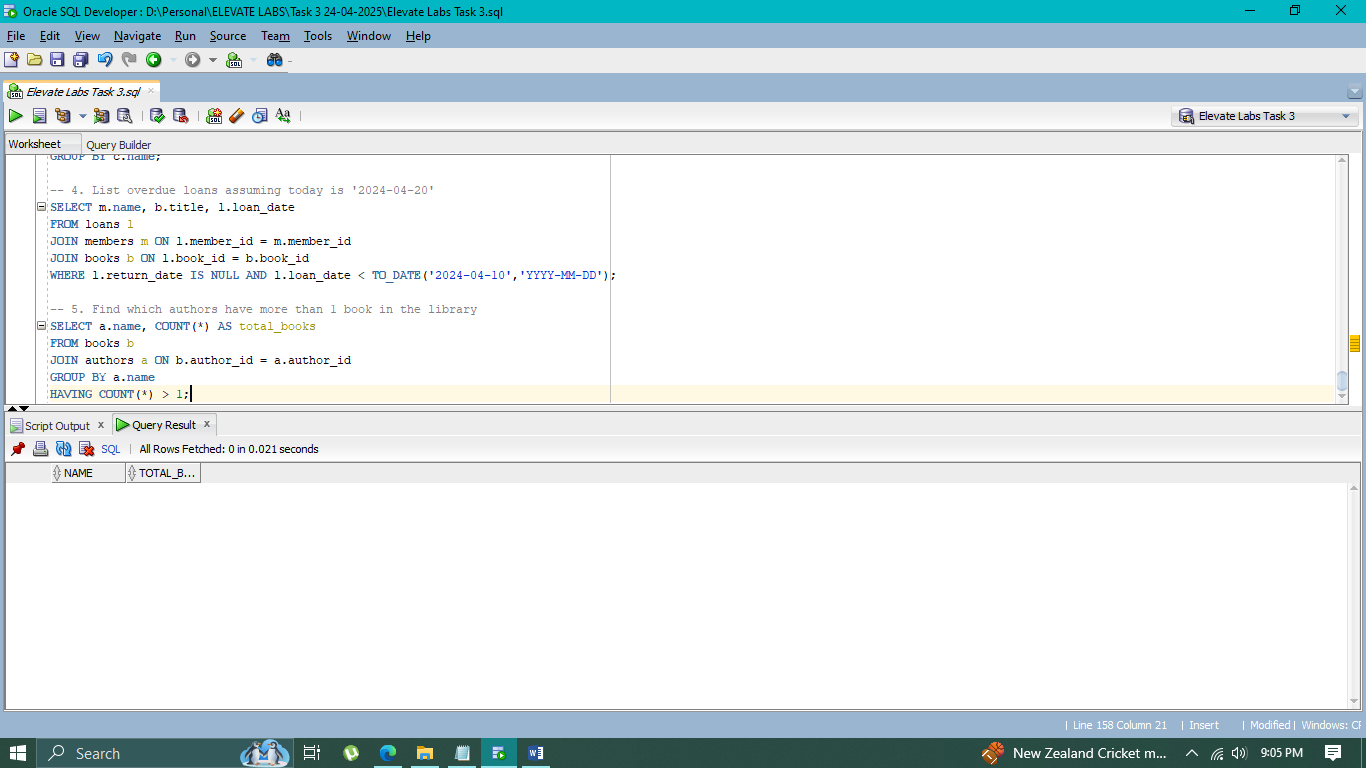
**3. Count how many books are in each category**



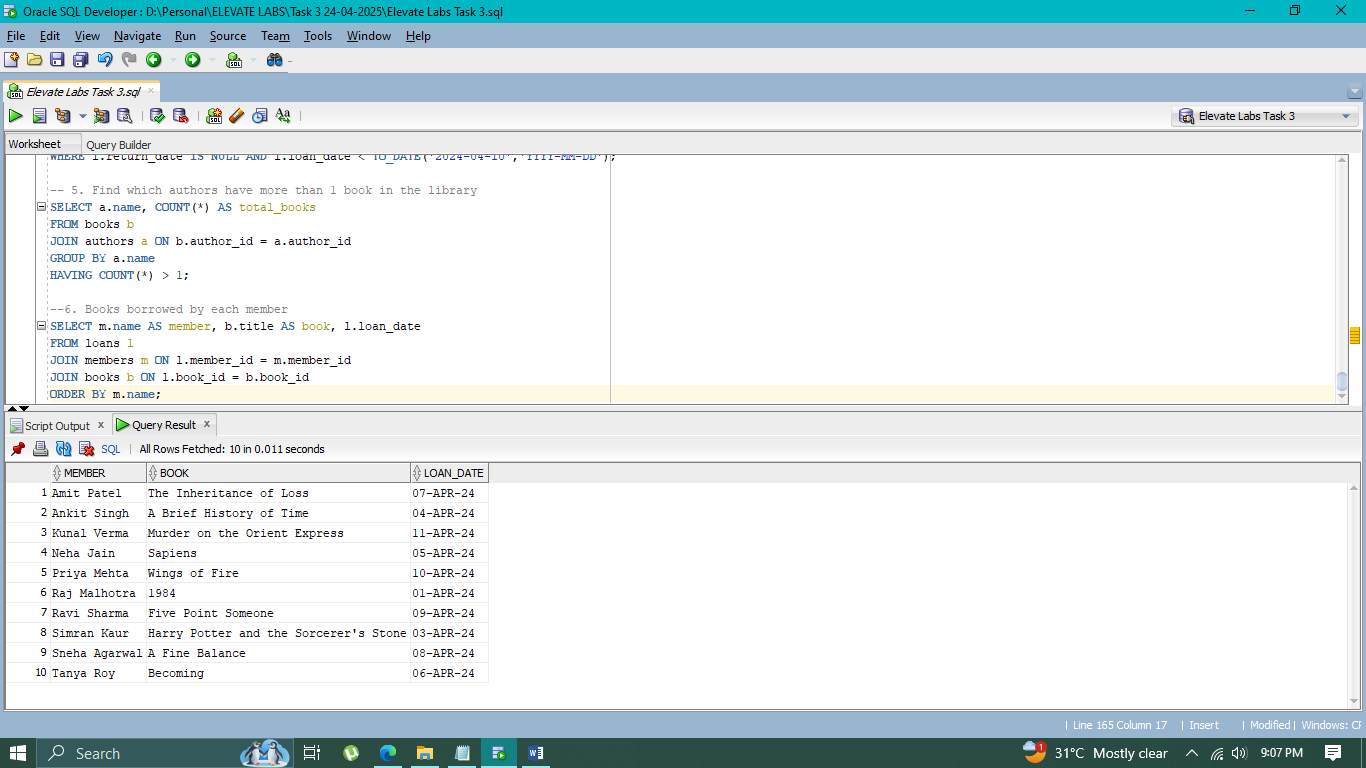
**4. List overdue loans assuming today is '2024-04-20'**



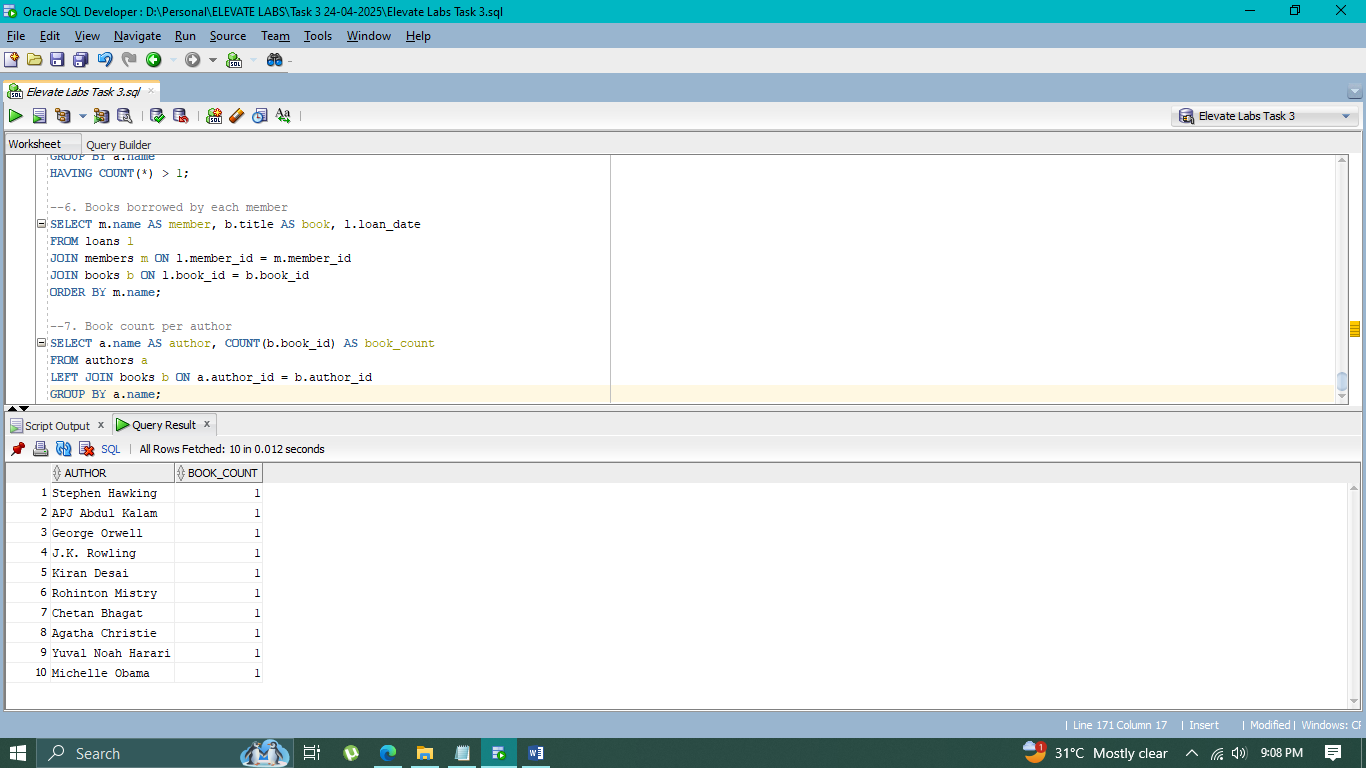
**5. Find which authors have more than 1 book in the library**



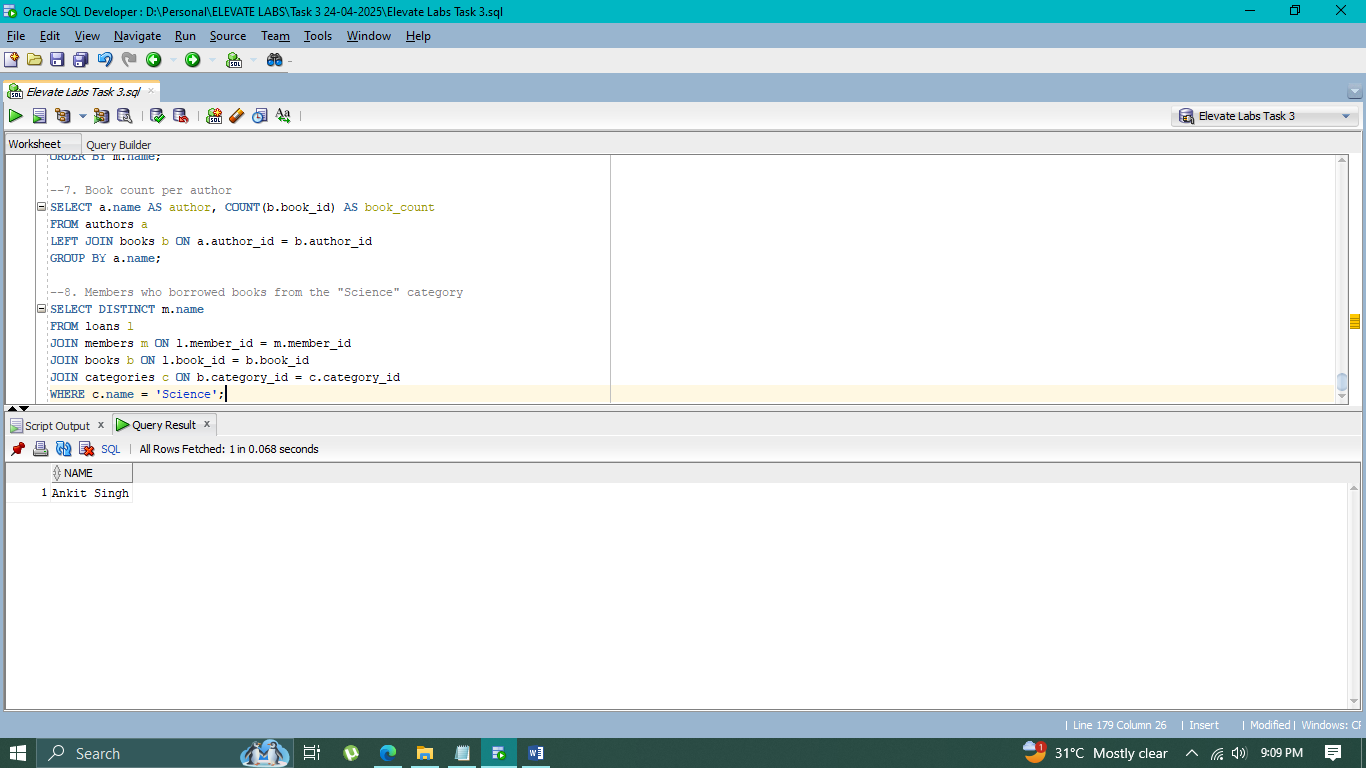
**6. Books borrowed by each member**



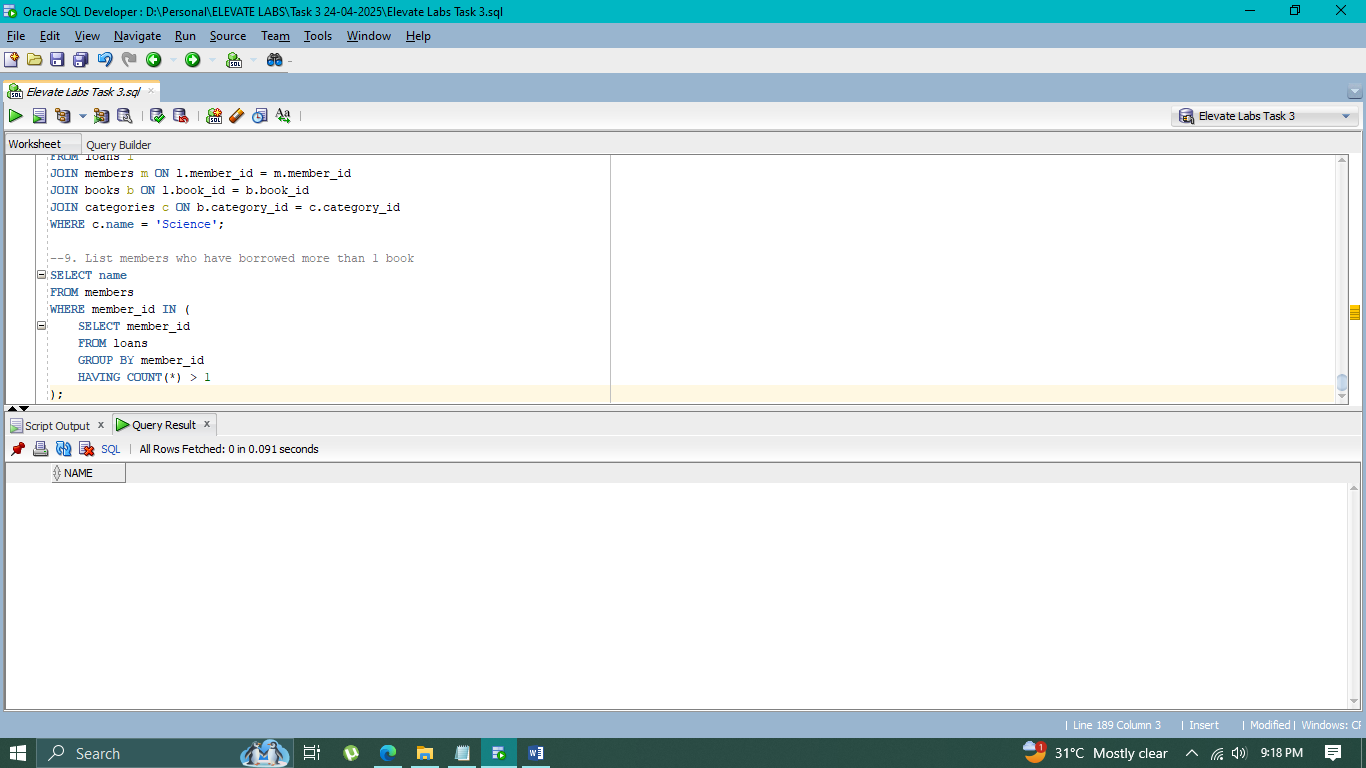
**7. Book count per author**



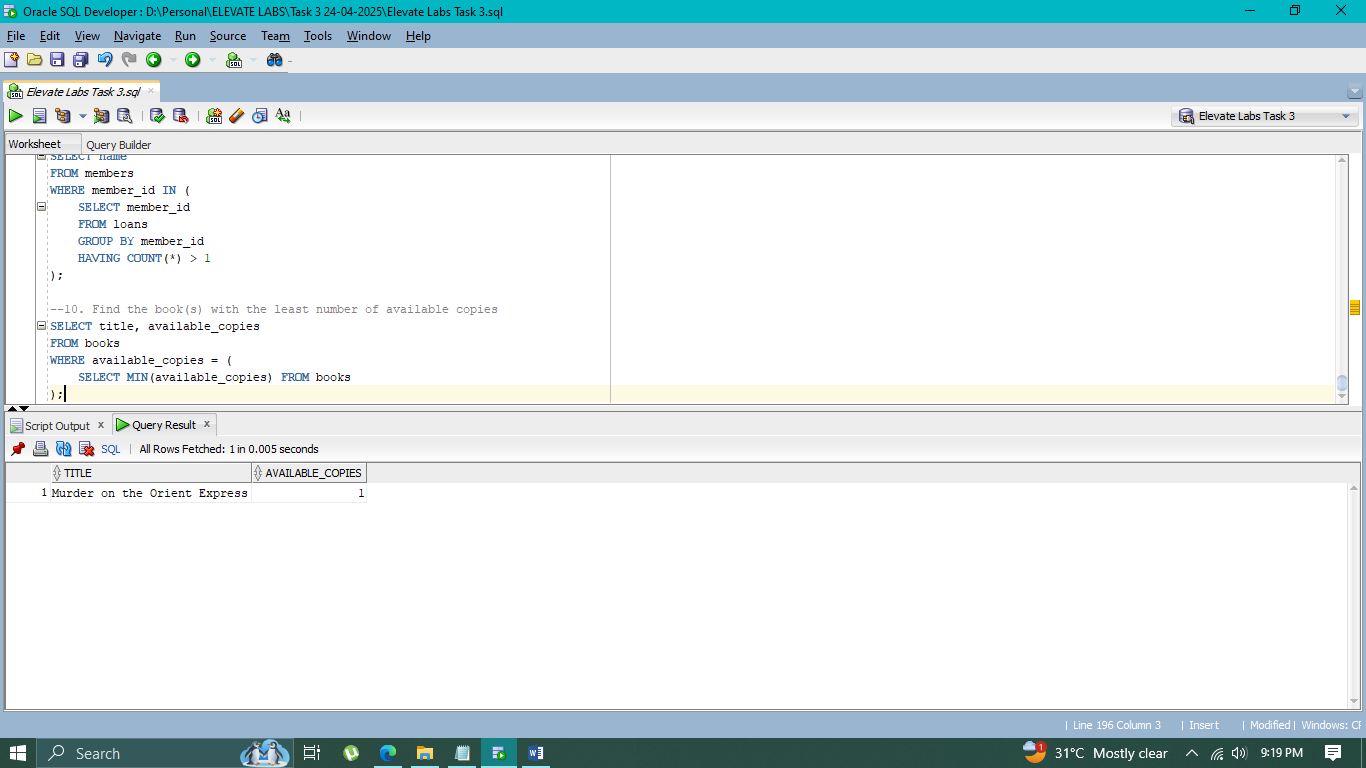
**8. Members who borrowed books from the "Science" category**



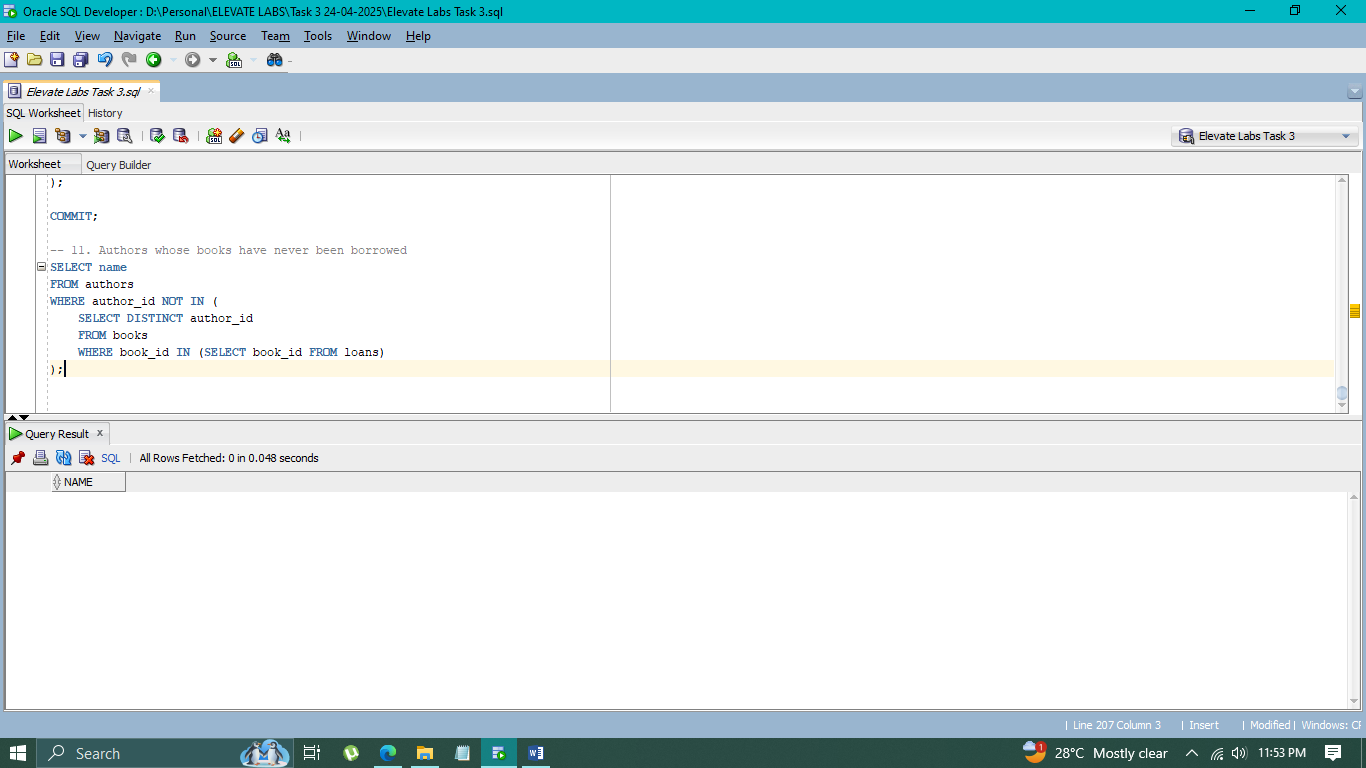
**9. List members who have borrowed more than 1 book**



**10. Find the book(s) with the least number of available copies**

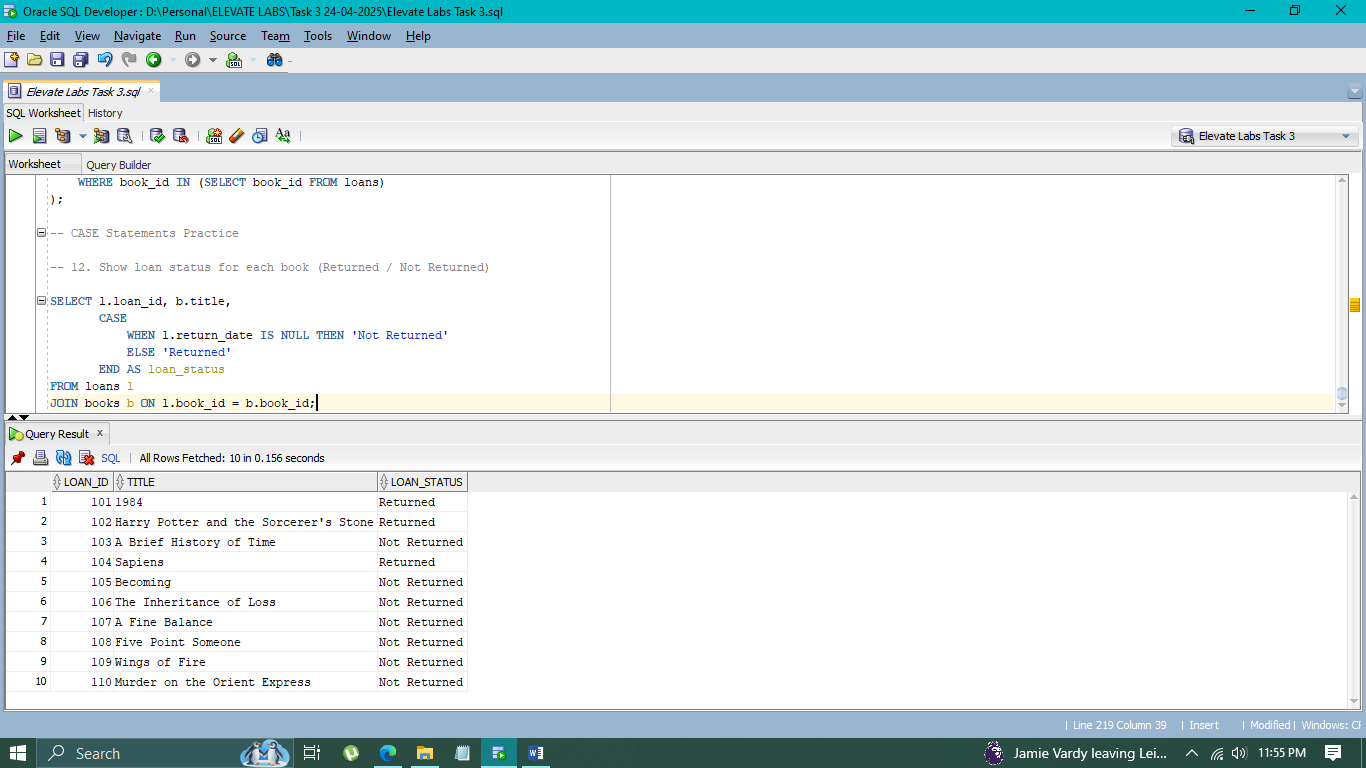


**11. Authors whose books have never been borrowed**

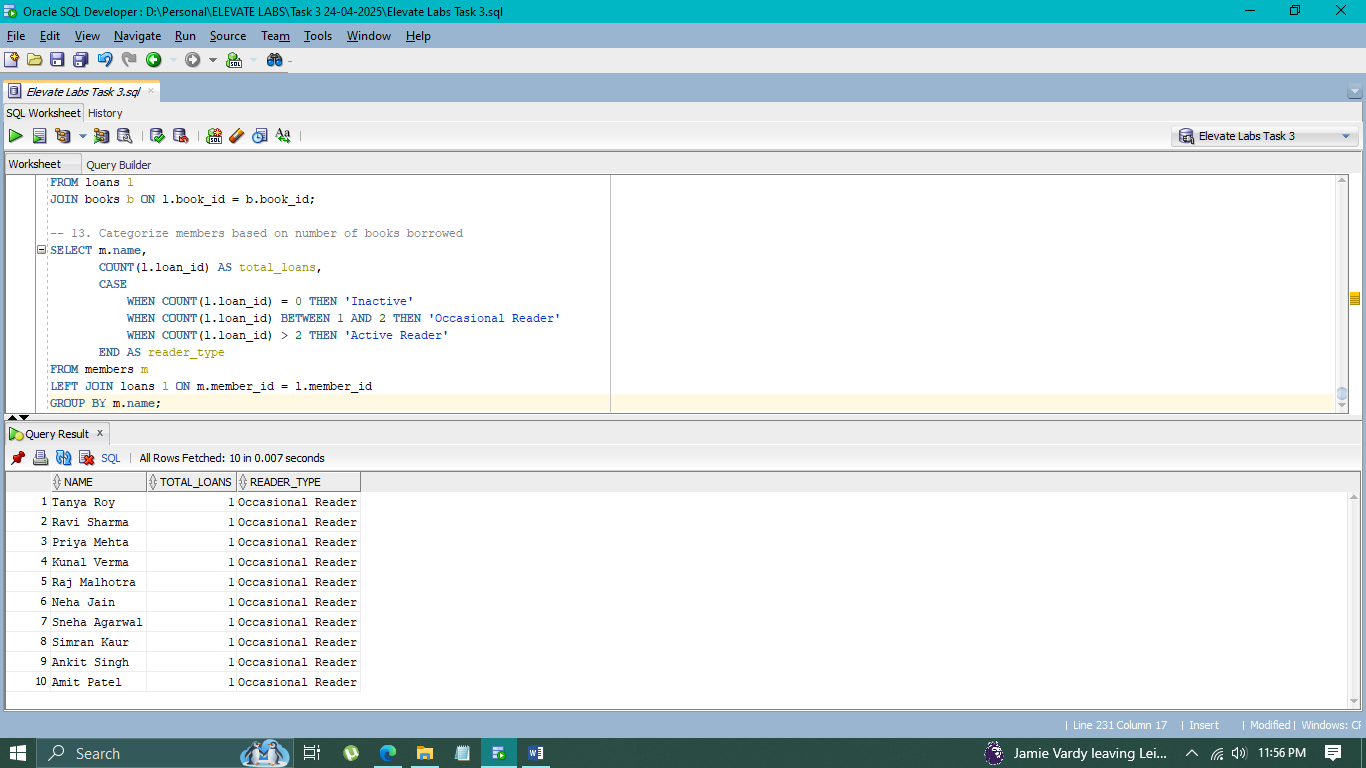


**CASE Statements Practice**

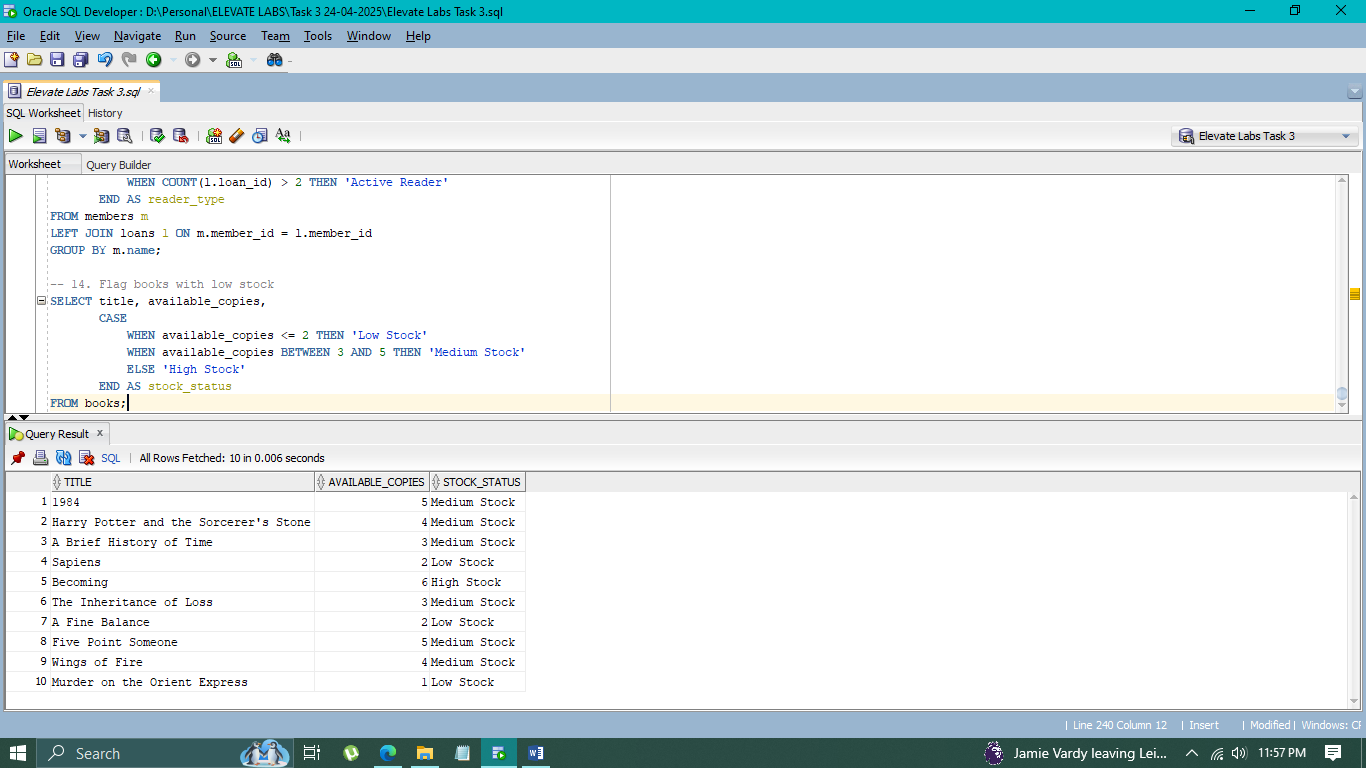
**12. Show loan status for each book (Returned / Not Returned)**



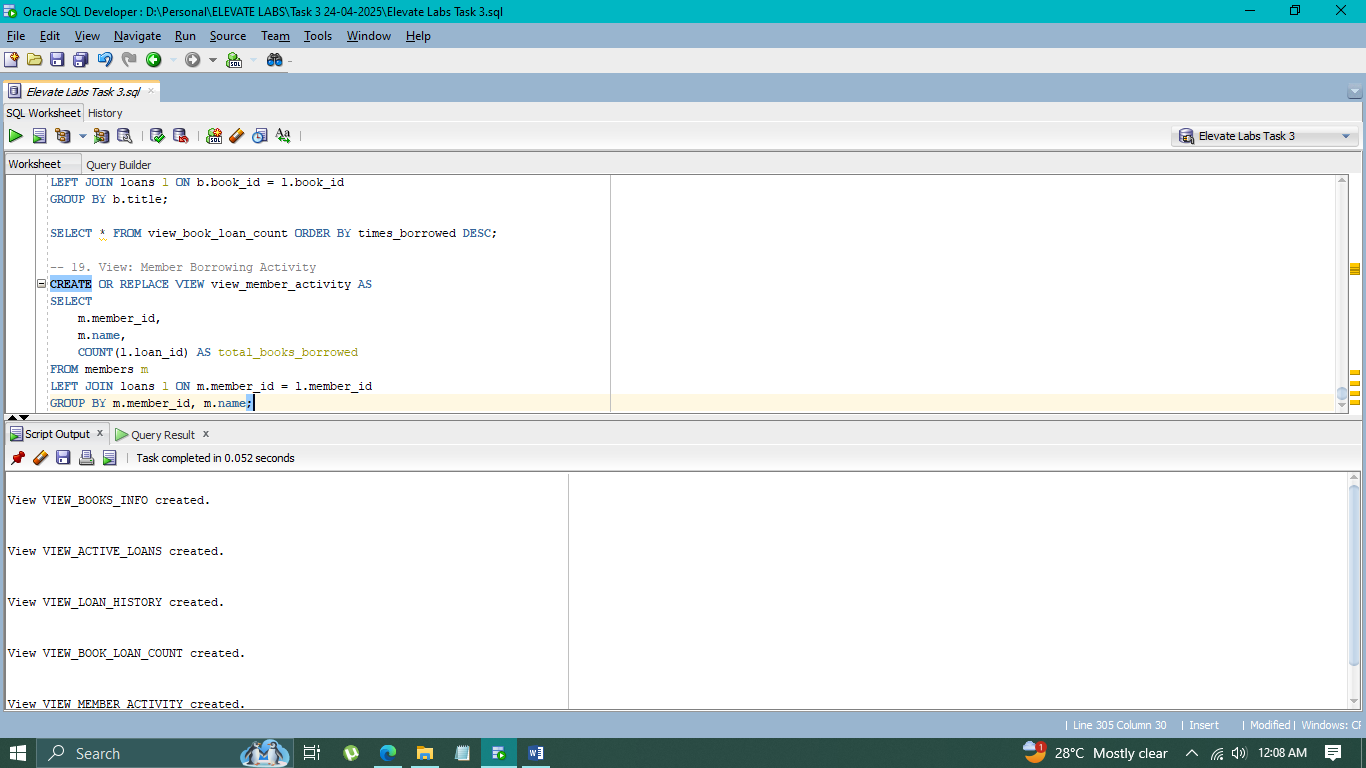
**13. Categorize members based on number of books borrowed**



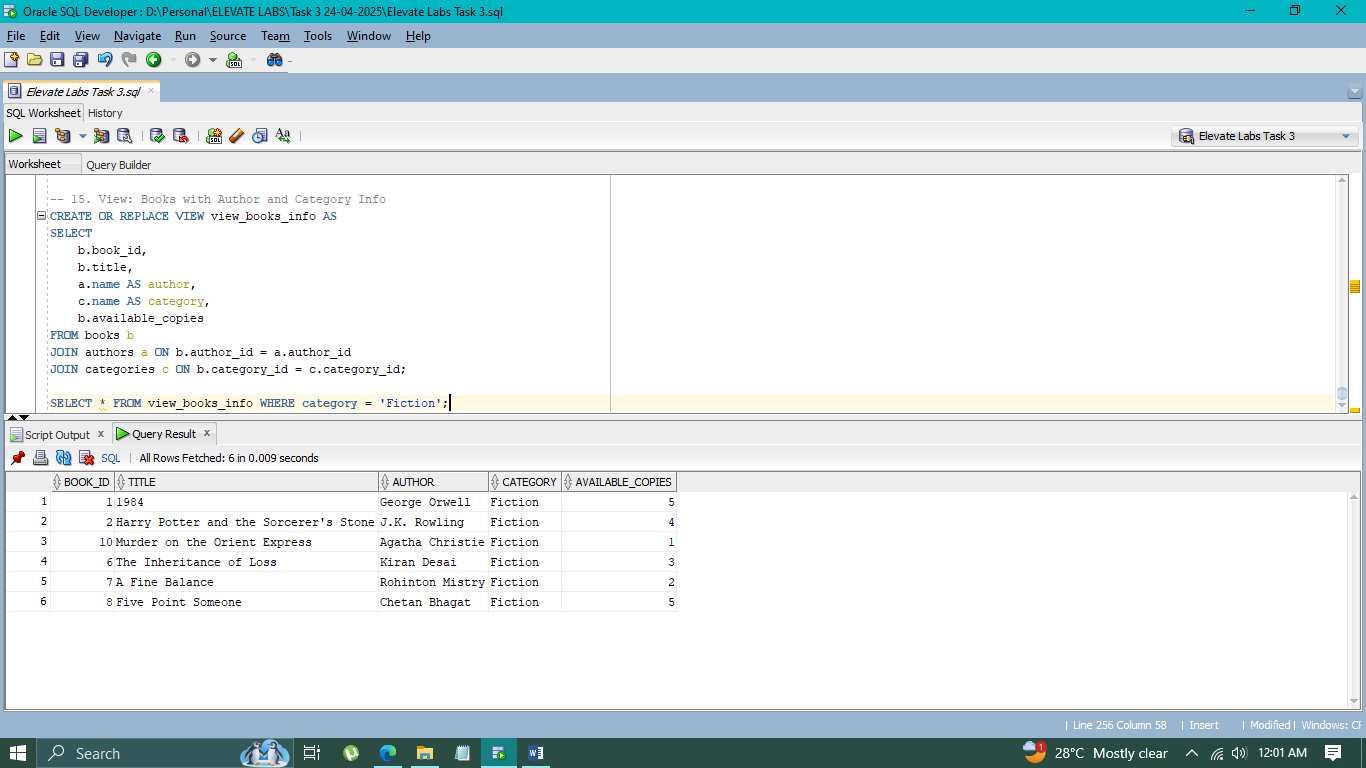
**14. Flag books with low stock**



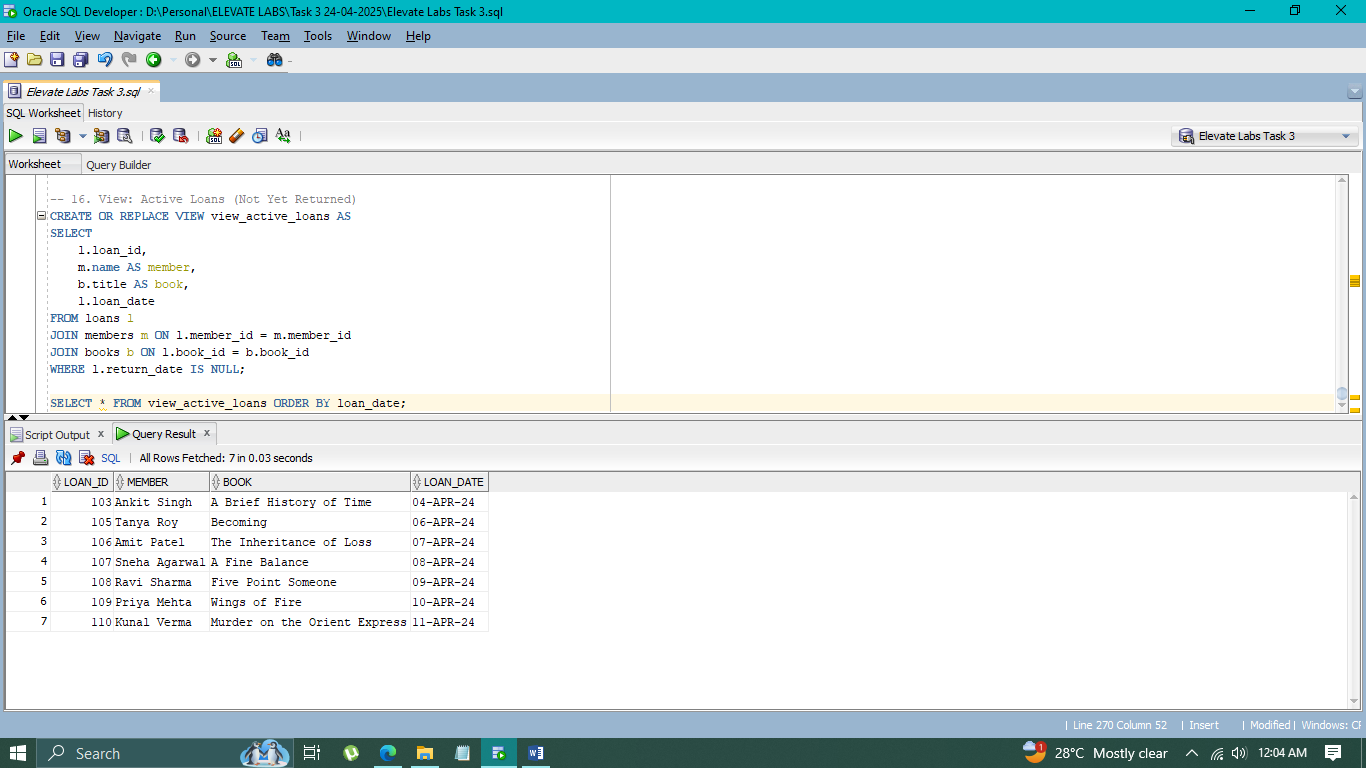
**VIEW Statements Practice**



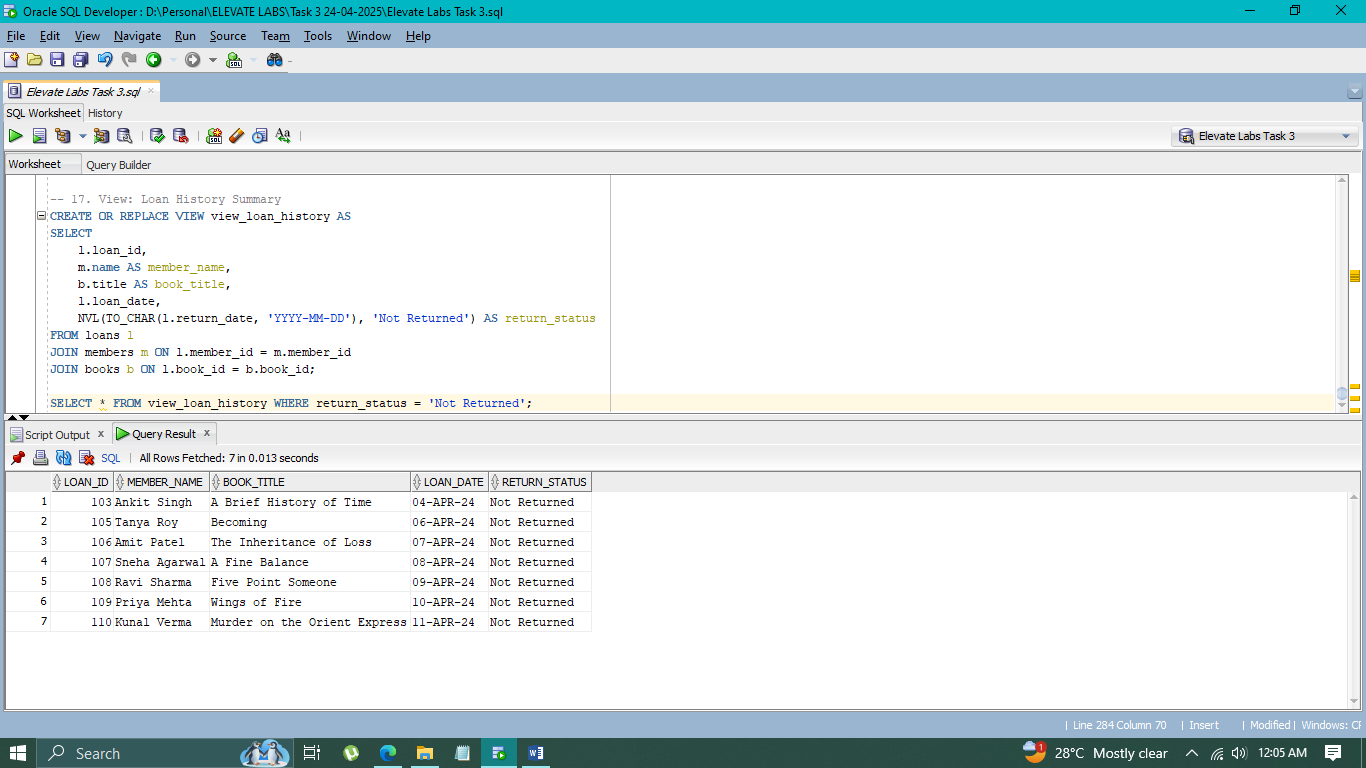
**15**. **View: Books with Author and Category Info**



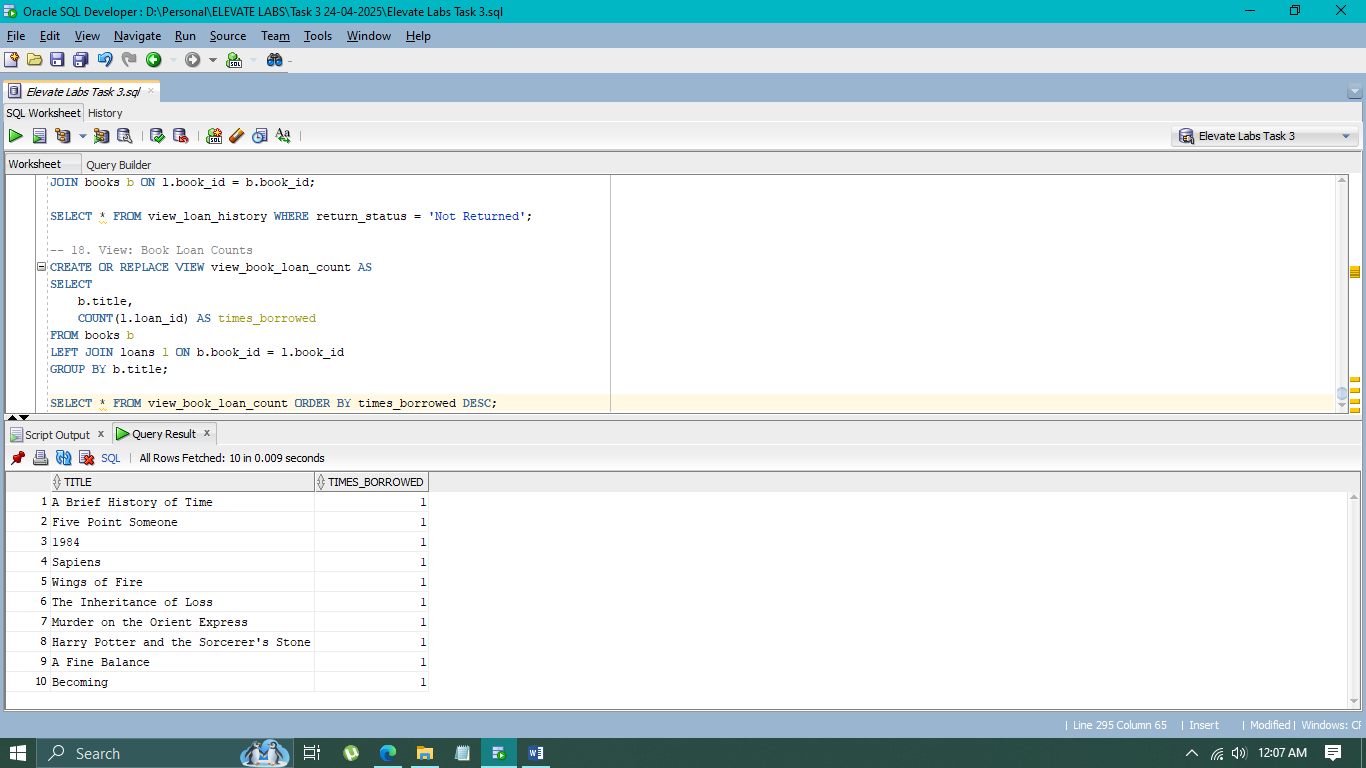
**16. View: Active Loans (Not Yet Returned)**



**17. View: Loan History Summary**



**18. View: Book Loan Counts**



**19. View: Member Borrowing Activity**

