**📘 Day 38 – SQL Practice Questions**

Dataset: Library Management System

Tables & Sample Data

**Members**

|  |  |  |  |
| --- | --- | --- | --- |
| MemberID | Name | JoinDate | Status |
| 1 | Alice Johnson | 2022-01-10 | Active |
| 2 | Bob Smith | 2021-12-05 | Inactive |
| 3 | Charlie Brown | 2022-03-15 | Active |
| 4 | Diana Prince | 2023-01-20 | Active |
| 5 | Ethan Hunt | 2021-09-12 | Active |

**Books**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| BookID | Title | Author | Genre | PublishedYear |
| 1 | The Great Gatsby | F. Scott Fitzgerald | Fiction | 1925 |
| 2 | 1984 | George Orwell | Dystopian | 1949 |
| 3 | To Kill a Mockingbird | Harper Lee | Fiction | 1960 |
| 4 | Sapiens | Yuval Noah Harari | History | 2011 |
| 5 | Educated | Tara Westover | Memoir | 2018 |
| 6 | The Alchemist | Paulo Coelho | Fiction | 1988 |

**Loans**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| LoanID | MemberID | BookID | LoanDate | ReturnDate |
| 1 | 1 | 1 | 2023-07-01 | 2023-07-15 |
| 2 | 2 | 3 | 2023-06-10 | NULL |
| 3 | 3 | 2 | 2023-07-05 | 2023-07-20 |
| 4 | 4 | 4 | 2023-07-12 | NULL |
| 5 | 5 | 5 | 2023-06-25 | 2023-07-05 |
| 6 | 1 | 6 | 2023-07-18 | NULL |

Questions

1. List all members who joined in 2022.
2. Find the number of books per genre.
3. Get the list of books currently on loan (not yet returned).
4. Show members who have borrowed more than 1 book.
5. Find the most borrowed book.
6. Display members with no loans.
7. Find average published year of borrowed books.
8. List top 2 recently borrowed books (by LoanDate).
9. Show loan details where the return date is missing (overdue check).
10. Find members who borrowed books in July 2023.

Bonus Challenge 🎯  
Find the member who borrowed the oldest published book and display their name along with the book title.