Questions:

1. How can you identify members who frequently borrow books from a specific genre but have never borrowed from another specified genre?
2. What are the top 5 most frequently loaned books, considering only loans that were returned late?
3. How can you find members who have borrowed books with a diverse set of genres (e.g., at least one book from more than 3 distinct genres)?
4. How would you rank the books based on their popularity (number of loans) and also include their average loan duration (from LoanDate to ReturnDate) for all completed loans?
5. Which books have the longest average loan durations, and how does this correlate with the book's genre or publication date?
6. How can you generate a report showing the number of overdue loans per member, along with the total number of days those loans were overdue?
7. How would you identify the most popular authors based on the total number of loans across all their books, and which of their books are most frequently borrowed?
8. How can you calculate the proportion of books loaned out compared to the total available copies in the library for each genre?
9. How can you detect borrowing patterns, such as members who tend to borrow books within a short time after another specific member returns a book?
10. How would you identify books that have been borrowed more frequently during certain months or seasons (e.g., summer vs. winter), and what patterns emerge by genre?
11. How can you identify members who have borrowed books consecutively (i.e., borrowing a new book immediately after returning a previous one)?
12. Which books have been consistently borrowed and returned late, and what is the average number of days late for each book?
13. How would you calculate the "borrow rate" of books based on the time they spend in circulation versus the time they are available?
14. How can you generate a list of members who have not borrowed any books in the last 6 months, but had borrowed more than 5 books before that period?
15. How would you determine the least popular genres based on the number of distinct members who have borrowed books from each genre?
16. How can you find books that have been borrowed multiple times but never returned late?
17. How would you rank members based on the total number of days they have borrowed books over the last year (including returned and overdue loans)?
18. Can you identify periods where the number of loans exceeded the average loan rate for a given genre, and determine which months had the highest activity?
19. How can you identify members who have never borrowed a book written by the same author more than once?
20. What query would you write to find books that are most frequently borrowed in pairs (i.e., two books borrowed together by the same member in the same loan)?
21. How would you create a report that shows the relationship between the age of a book (since its publication date) and its average loan frequency?
22. How can you identify members who tend to return books early (before the due date) most of the time, and calculate their average early return period?
23. What is the average loan duration per genre, and how does it compare across different member registration periods (e.g., before 2023 vs after)?
24. How would you identify books that have been borrowed less than expected based on their availability (i.e., they have many copies but few loans)?
25. Can you determine which authors have the highest percentage of their books currently on loan, and how does this vary by genre?
26. How would you detect members who repeatedly borrow the same book (i.e., multiple loans of the same book by the same member)?
27. How can you identify patterns where books by a specific author are typically borrowed after a certain event (e.g., the release of a new book)?
28. How would you find loans where books from different genres were borrowed by the same member on the same loan date, and analyze any patterns?
29. How can you create a report showing the number of days a book typically remains available (i.e., not on loan) between loan periods, and how this varies by genre?
30. How can you determine which books have become more popular over time by comparing their loan frequency in the first year after publication to the most recent year?