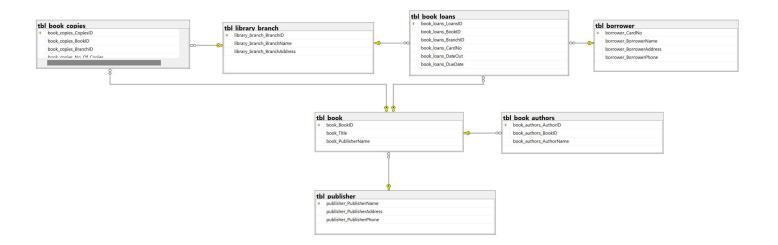
Database Creation and Data Population

Objective: Create a database schema for a library management system and populate it with sample data.

Tasks:

- 1. **Table Creation:** Write SQL statements to create the following tables in the **db_LibraryManagement** database:
 - tbl_publisher
 - tbl_book
 - · tbl library branch
 - tbl borrower
 - tbl book loans
 - tbl_book_copies
 - tbl_book_authors
- Data Population: Insert sample data into the tables using appropriate SQL INSERT statements.



- 1. Find the titles of all books published by "Bloomsbury."
- 2. List the names of borrowers whose phone numbers start with the area code "212."
- 3. Retrieve the titles of books with more than 10 copies available.
- 4. Display the names of borrowers who have borrowed books from the "Central" branch.
- 5. List the titles of books borrowed by borrower "Joe Smith."
- 6. Find the names of publishers for the books authored by "J.K. Rowling."
- 7. Count the total number of books available in the library.
- 8. Calculate the average number of copies available per book across all branches.
- 9. Find the branch with the highest number of books loaned out.
- 10. Insert a new book titled "The Catcher in the Rye" by "J.D. Salinger" into the database.

- 11. Update the address of the "Sharpstown" library branch to "45 West Side Avenue, New York, NY 10012."
- 12. Remove all books published by "Pan Books" from the database.
- 13. Retrieve the names of borrowers who have borrowed the same book more than once.
- 14. Find the title of the book with the earliest due date.
- 15. List the names of borrowers who have borrowed books authored by both "Stephen King" and "J.K. Rowling."
- 16. Find the names of borrowers who have borrowed books published by "Bloomsbury.
- 17. Retrieve the titles of books borrowed by borrowers located in New York.
- 18. Calculate the average number of books borrowed per borrower.
- 19. Find the branch with the highest average number of books borrowed per borrower.
- 20. Rank library branches based on the total number of books borrowed, without grouping
- 21. Calculate the percentage of books borrowed from each branch relative to the total number of books borrowed across all branches.
- 22. Find the names of borrowers who have borrowed books authored by "Stephen King" and "J.K. Rowling" from the same library branch.
- 23. Retrieve the names of borrowers who have borrowed books from branches located in New York and have more than 5 books checked out.
- 24. How many copies of the book titled "The Lost Tribe" are owned by the library branch whose name is "Sharpstown"?
- 25. How many copies of the book titled "The Lost Tribe" are owned by each library branch?
- 26. Retrieve the names of all borrowers who do not have any books checked out.
- 27. For each book that is loaned out from the "Sharpstown" branch and whose DueDate is today, retrieve the book title, the borrower's name, and the borrower's address.
- 28. For each library branch, retrieve the branch name and the total number of books loaned out from that branch.