Five useful queries:

**Insert loan:** the loan query start by initialising the parameters, then execute 5 procedures that verifies that the member have loaned less than 5 books, the book is loanable, the book copy exists, the card exists and the copy is available. Then it checks if all the procedures returns true, if all of them are true it starts the query that inserts the loan into the loan table, if any of them are false it prints “CANNOT INSERT LOAN!”.

**Look up book by title:** selects the information from item, book, and book subject with the title chosen. It selects the book and subject based on the ISBN found when searching for a book and uses an inner join on the three tables.

**View currently on loan:** selects the information from borrow, item and person from the books that are not returned in borrow. It selects the item based on the ISBN from all the rows that are returned, the person based on the card number from all the rows that are returned and uses an inner join on the three tables.

**View not loanable:** selects the information from item where the ISBN is the same as the ISBN from all the books with the book type “normal”. It uses a nested loop to find all the books with the book type “normal” and returns the rows.

**View overdue books:** selects the information from borrow, item and person from the books that are not returned in borrow. It uses a nested loop to select the library cards of the persons, it then uses another nested loop to select the members based on the SSN, lastly it uses an OR statement to decide if the members personification is a student or a professor. It gives different borrow time based on if you are a student or a professor.