## ****Objective****

The librarian wants a database to manage and track the books in the library, the members who borrow them, and their borrowing history.

## ****Situation****

A **book** is uniquely identified by its ISBN number. Each book has a title, a publication year, and belongs to one or more genres. A book can also have multiple authors. The library holds multiple **copies** of each book, where each copy is uniquely identified by a copy number. Each copy can either be available or loaned out. **Authors** are uniquely identified by their full name and birthdate. An author can write multiple books.

The librarian tracks the **members** of the library. Each member has a unique membership ID, name, email, phone number, and address. Members are allowed to borrow books from the library. Each borrowing event is recorded, including the date the book was borrowed, the due date, and the return date (if the book is returned). A member may borrow multiple books at once, but the same book copy cannot be borrowed by more than one member at the same time.

If a member returns a book late, a fine is applied. The librarian records the fine amount and the date the fine is paid.

The librarian is responsible for adding new books and authors into the system. They can also track which books are currently available and who is borrowing which books.