In our project we are creating a database for a public library. The database should have a part that concerns itself with users and another part that deals with the books themselves.

The database should be designed with the fact that not all user are the same, so there has to be a role\_id table that later points to their position in the library (reader, employee…).

There could be many copies of one book and one book can have multiple authors.

There are two types of books, those that are available in the publicly accessible part of the library and the rest that are kept in storage. Every book has to have its unique location.

Readers have the option to borrow copies of a book, table for copy shall contain information if it’s borrowed and if so it shall contain borrow\_id with further information. One copy can have only one borrowing at a time. After book is returned, borrow information shall be archived and the borrow table connected to copy shall be deleted.

There are two types of borrow. The copy can be either taken home or can be only read on the library property.