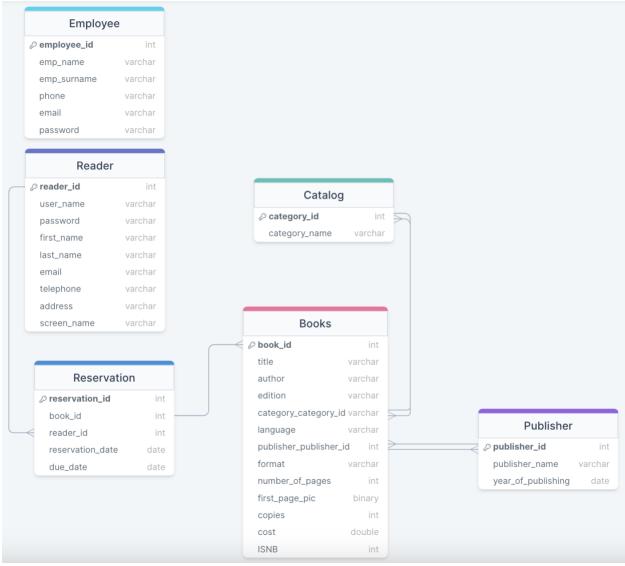
1.5 Relational Databases: Homework (Advanced)

Draw an ER diagram of a library with the following objects included:

- 1. Book
- 2. Catalog
- 3. Reader
- 4. Employee
- 5. Others, up to your choice

What would a potential UI of this hypothetical application look like? Please describe the UI or draw a picture mapping UI controls to your DB objects.



A public library.

There are 2 options to use this library:

- 1. Physical at the library (searching books through catalog or physical).
- 2. Online (searching and reservation of a books) and receiving then in the library.

On the first screen we should see some graphical "hello information", categories of the books (where we can choose category), trending books (some statistical information with further option to choose book), searching engine (there we can get the information about books, authors, publishers) and sing in /log in options (for employee or reader).

Library logo	My Books (information about borrowed books (reservation) for a reader)	Browse (category) (books) (publisher)	Search	Log In (email password)	Sing In (email password)
	just for known (logged in / signed in) reader	for every visitor	for every visitor	for every visitor (after logging in should be a page with an information about user)	for every visitor (after registration should be a page with an information about user)
	Books Publishers Catalog (search, edit delete)	Readers	Reservation	Reports	
	just for a	just for a	just for a	just for a	
	librarian	librarian	librarian	librarian	
An	Trending books			I 5:	
information	Picture of a book	Picture of a book	Picture of a book	Picture of a book	
page for	Classic books	DUUK	DUUK	DUUK	
every visitor	Picture of a	Picture of a	Picture of a	Picture of a	
	book	book	book	book	
	Classic books				
	Picture of a	Picture of a	Picture of a	Picture of a	
	book	book	book	book	
	Etc.				
	Browse by subject				
	Art	Science Fiction	Fantasy	History	

Options for employee (librarian) – sing in / log in (through email and password).

The librarian should have an option: to search/choose books, publisher or category in the library, to reserve books for a specific reader, to get some statistics or reports about borrowed books, to add / edit / delete books, publishers or categories.

readers and changes status of the borrowed books).

Option for reader – sing in / log in (through email and password).

The reader should have an option:
to search/choose books, publisher or category in the library,
to reserve any books,
to see some statistical information about borrowed books.

Returning of the books should be realized through librarian (who get them physical from the