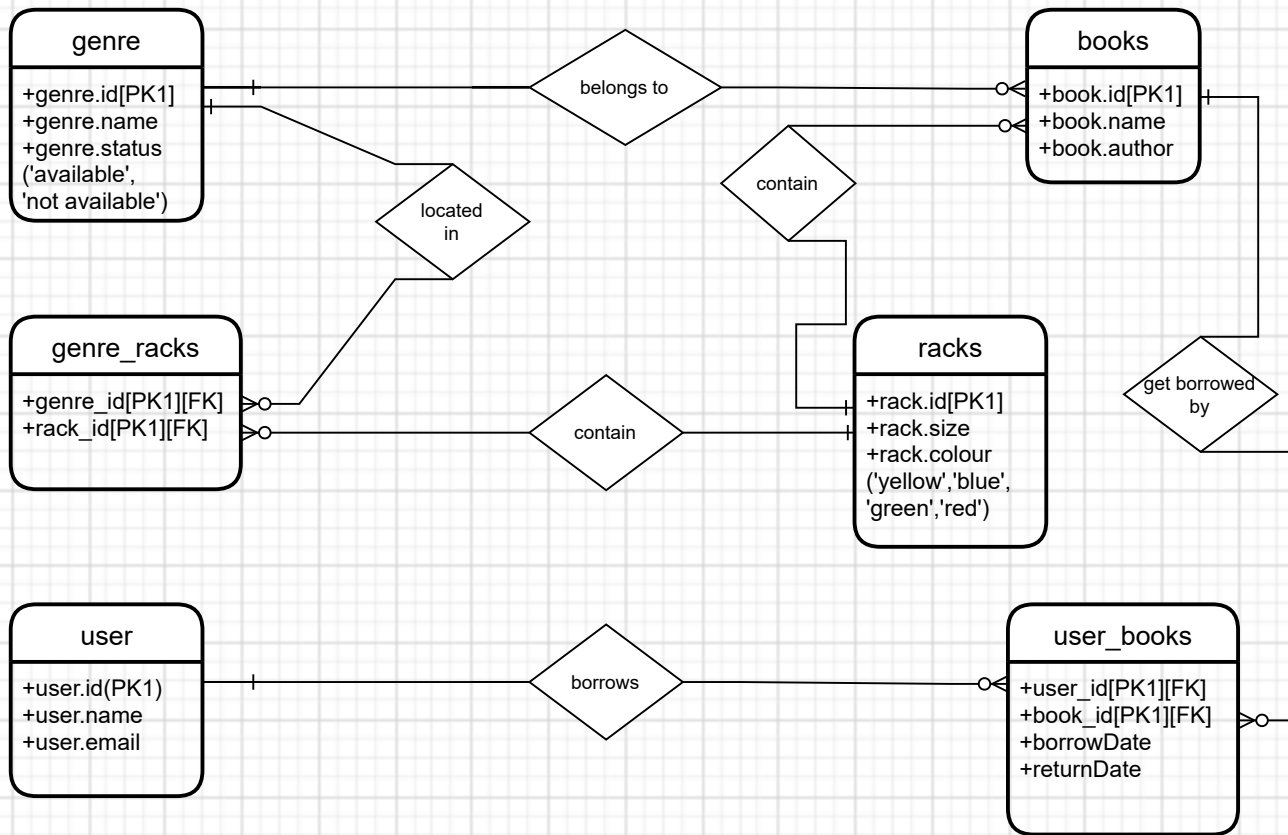


Entity Relationship Diagram

By Rismita Ghosh Sarkar

Date: 17th April 2022

Page No: 1 of 3



1. Identify Entities:

The entities in 'a library' system are Genre, Racks, Books and User.

2. Find Relationships:

The following Entity Relationship Matrix is constructed.

	Genre	Racks	Books	User
Genre		located in	belongs to	
Racks	contain		contain	
Books	belong to	located in		get borrowed by
User			borrow	

3. Fill in Cardinality

From the description of the problem we see that:

- Each genre has 0 to many books.
- Each genre is located in 0 to many racks.
- A rack contains 0 to many genres.
- A book located in a rack.
- A user borrows 0 to many books.
- A book gets borrowed by 0 to many users.

4. Define Primary Keys

The primary keys are genre id, racks id, books id, user id.

5. Map Attributes

Attribute	Entity	Attribute	Entity
genre.id genre.name genre.status	genre	rack.id; rack.size rack.color	racks
book.id book.name book.author	books	user.id user.name user.email	user