

Individual Book Library Database

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Database Project Proposal
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I will be making a database that stores and keeps track of the books an individual has read throughout their lifetime. This will act as the individual's personal library. It is something that is not easily found in today's systems and will allow an individual to refer back to a book they have read in the past if they wished to do so.

The entities within my database will be:

1. Individuals:- They will have first_name, last_name, birthdate.
2. Books:- They will have titles, authors, page numbers, genres, etc.
3. Authors:- They will have first_name, last_name, number of books written
4. Purchase Type:- This will be from a list of bought, rented, loaned, or free.

The relationships within my database will be:

1. Individuals read books. — An individual can read many books.
2. An author writes books. — An authors can write many books.
3. Books are read by individuals. — This is a many-to-many relationship. Many individuals can read the same one book. Many books can be read by the same one individual. Many individuals can read many books.
4. Individuals attain books. — An individual must attain a book through one of the purchase types. Each book can only be purchased in one manner.
5. Books are completed on a date. — Many books can be completed on a specific year [i.e. - I read 3 books in 2012: Catcher in the Rye, Harry Potter and the Sorceror's Stone, and Pandora's Box]. This relationship will provide a rough timeline in case an individual wants to look up a book they read within a specific year [which the database will be able to do].