Entities and Glossary

List of entities:

1. Book

    a. Strong entity

    b. The entity to represent all individual books in the library regardless of author, location, genre, size, price, etc.

2. Magazine

    a. Strong entity

    b. The entity to represent all individual magazines in the library

3. Digital media

    a. Strong entity

    b. Represents any game, video, digital book, digital magazine, etc.

4. Author

    a. Strong entity

    b. Stores all data about individual authors

5. Publisher

    a. Strong entity

    b. This entity represents any individual publisher of a book/magazine/digital media

6. Member/client

    a. Strong entity

    b. Represents any person who currently has a library membership

7. Membership type

    a. Weak entity

  b. Stores all information associated with a certain member's membership type. This is a weak entity as it is reliant on the member.

8. Employee

  a. Strong entity

  b. Represents any person currently working for the library

9. Transaction

  a. Weak entity

  b. This entity will record all data that pertains to a member borrowing/renting/buying any product such as the member info, date borrowed, return date, price paid, etc. This is a weak entity as it is reliant on other entities such as books/magazines and the members/employees

10. Reservation

  a. Weak entity

  b. An entity that holds all data pertaining to a product that has been reserved

11. Fine/fee

  a. Weak entity

  b. Records all data for any fine/fee given to a member because of an overdue product. This is a weak entity as it is reliant on the members, the products, and the transactions.

12. Notification

  a. Strong entity

  b. The entity for holding information for notifications that will be sent to members

Glossary:

The Librarians - The alias used by the team developing library database system.

DB - An acronym for database.

DBMS - Database management system.

SQL - Structured query language.

DDL - Data definition language.

DML - Data manipulation language.

DCL - Data control language.

TCL - Transaction control language.

Genre - Descriptor for books/magazines that gives a brief insight into what the reader should expect from the product in an umbrella classification.

ID - Identification.

Product - A book or magazine.

Fine - A fee charged for overdue items.

Hold - A request to reserve an item currently checked out.

Catalog - A database listing the books and materials in the library.

Dewey Decimal System (DDC) - A classification system organizing books by subject.

Periodical - A publication issued regularly, like a magazine or journal.

Monograph - A book on a single subject.

Folio - An oversized book.

Microform - A reduced-size reproduction of documents for storage.

Renewal - Extending the loan period of a checked-out item.

Reference product - A product in the library that cannot be checked out.