Database systems project

The Idea: a database to manage a library, The system is designed to display the information about the Employees and the books stored in the system. The major user of the system is the Employees.

database functions :

- Provide access to the books information.
- Provide access to the Employees information.
- Provide Authors of the books.
- Provide Publishers of the books.
- information about the books stored in the system.

The Entities of the database:

- Customer
- Employees
- books
- Category
- Author
- publisher

Entity required:

Book = entity: includes the attributes about the information needed for each book.

Author = entity: includes the attributes of information about the author.

publisher = entity: includes the attribute about the publisher name and the book associated to the publisher.

Category = entity: includes attributes about category available in the system.

Employees = entity: includes attributes about the Employees information who they work on the system.

Customers = entity: includes attributes about the Customer like the Mobile number, name and number of the book that was purchased.

Description of entities :

Customers

The data stored for each customer who purchased a book includes: mobile phone number, , previous purchase history, any additional comments.

Employees

Each employee is given a job number and some staff information is also collected including ID number, full name, phone number ,home address ,, gender.

Books

 The library system stores a measure of information about books in existence and books sold, and each book is given its own identification number, name of the publishing house, name of the author/writer, year of publication of the book, and book Category.

Category

The categories section contains the types of books in stock such as novels, educational books, children's stories...
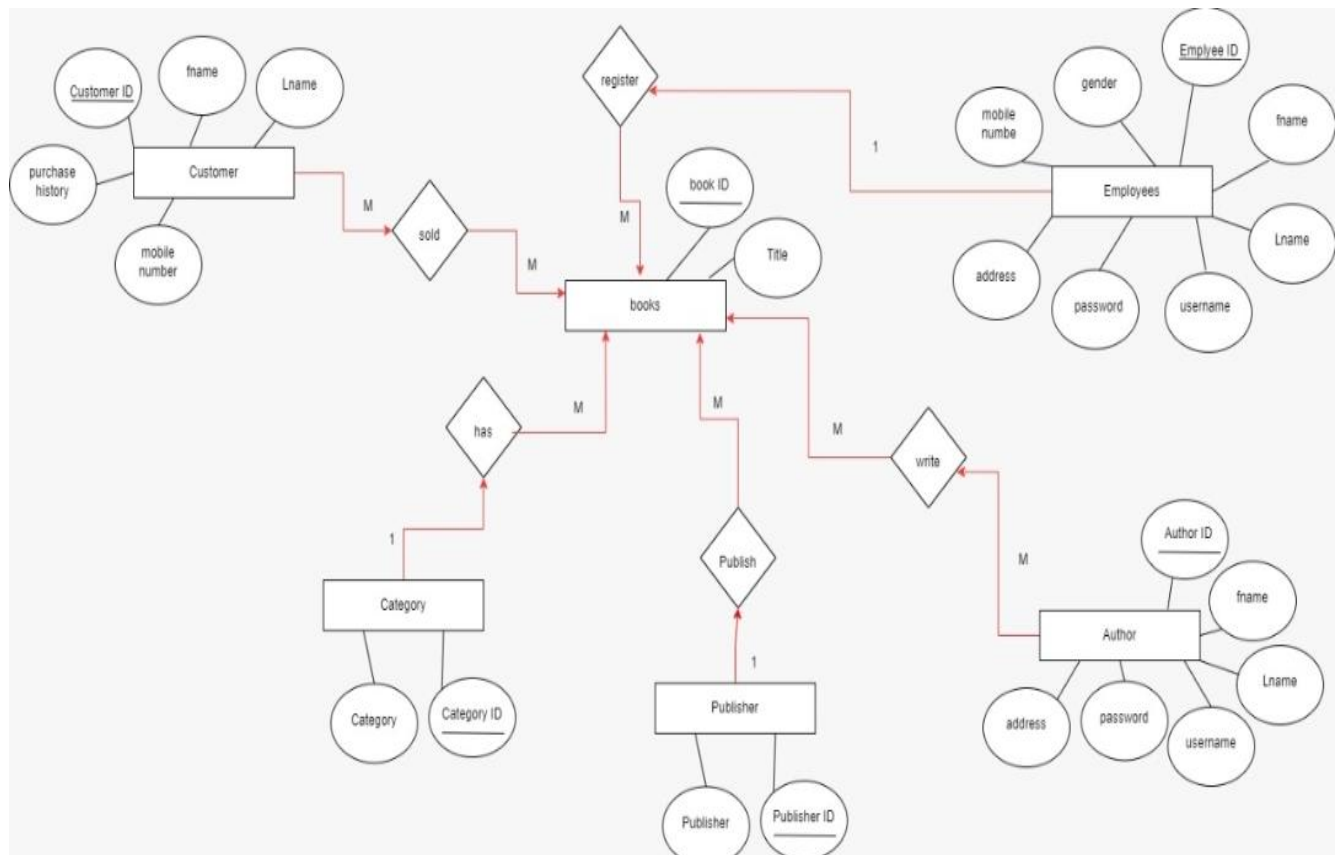
Author

This entity contains information about the author such as the author's name and the names of the books he has authored.

publisher

This entity stores data about the name of the publisher and the books he has published and also the date of publication of these books.

ER :

Schema :

Employees

Employee ID	Fname	Lname	username	password	address	Gender	mobile number

Publisher

Publisher ID	Publisher

Books

Book ID	Title	Category_ID FK	Author_ID FK	Publisher_ID FK	Customer_ID FK

Category

Category_ID	Catogory

Author

Author_ID	Fname	Lname	username	password	address

Customer

Customer_ID	Fname	Lname	purchase history	mobile number

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