A Library has decided to store information about its Stuff and Books in a database. It has chosen to hire you as a database designer.

- 1. Prepare an E-R diagram and schema(mapping) for System that describes its activities according to The following Description:
 - Library has a number of Employees, Each one Has Emp_Id(unique), Name Which is represented as Fname and Lname, Email, Salary, DateOfBirth, Bouns, Address and Phone Number. Each Employee has a supervisor.
 - Library has a set of Floors each floor has floor number and Number of Blocks.
 - There is always one employee assigned to manage that Floor and each manager has a hiring Date.
 - Floor has many employees and employees work on Only One floor.
 - The data of the user will be Recorded by one employee, Each user has a set of attributes SSN(Unique), Name, Email and Phones. And the Employee Can record More than one User.
 - The system records the following details about Book : id and Title.
 - The Employee has to record all required data each time the User Borrow a certain book with specified Date_Borrowed, Due Date and Amount of money That paid for borrowing.
 - Each Book May have one or more authors, Each author May own one or more books.
 - Each Book Has one Publisher, and each Publisher May publish many Books
 - Data Recorded about author and publisher [id , Name].

- Each book is Classified under one Category. Each category may have many books, and each category has an id ,Cat_Name.
- Each book is assigned to a certain Shelf, and the shelf may contain one or more books. Shelf is defined by Code.
- Each Shelf is located on a specific floor, and the floor contains many shelfs.
