Library Database Management System

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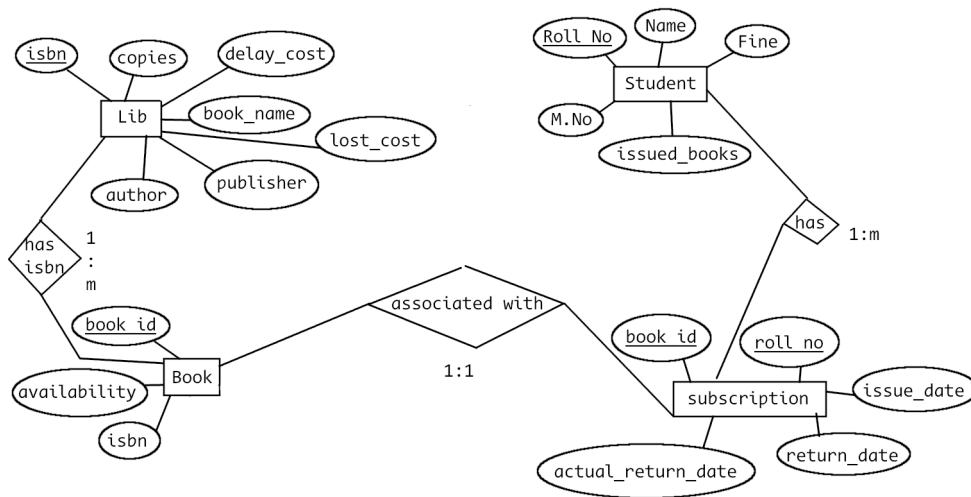Ishaan Gupta: 102103572

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Problem Statement

Library Management System is an application designed to keep record of the data used by the library (specifically Library of a University). It is used by librarian to manage the library using a computerized system where he/she can add new books, students, issue books etc. Books and student maintenance modules are also included in this system which would keep track of the students using the library and also a detailed description about the books a library contains. With this computerized system there will be no loss of book record or member record which generally happens when a non computerized system is used. All these modules are able to help librarian to manage the library with more convenience and in a more efficient way as compared to library systems which are not computerized.

ER diagram

Tables

Lib

ISBN (PK)	NUMBER
Copies	NUMBER
Delay_cost	NUMBER
Lost_cost	NUMBER
Book_Name	VARCHAR(50)
Author	VARCHAR(40)
Publisher	VARCHAR(50)

Student

Roll No (PK)	NUMBER
Name	VARCHAR(50)
M_No	VARCHAR(10)
Issued_books	NUMBER
Fine	Number

Book

Book_Id (PK)	NUMBER
Availability	VARCHAR(1)
ISBN (FK)	NUMBER

Subscription

Book_Id (PK) (FK)	NUMBER
Roll_No (PK) (FK)	NUMBER
Issue_Date	DATE
Return_Date	DATE
Actual_Return_Date	DATE

PL-SQL statements

Repository Link: https://www.github.com/hitesh-aggarwal/dbms