

Name: _____

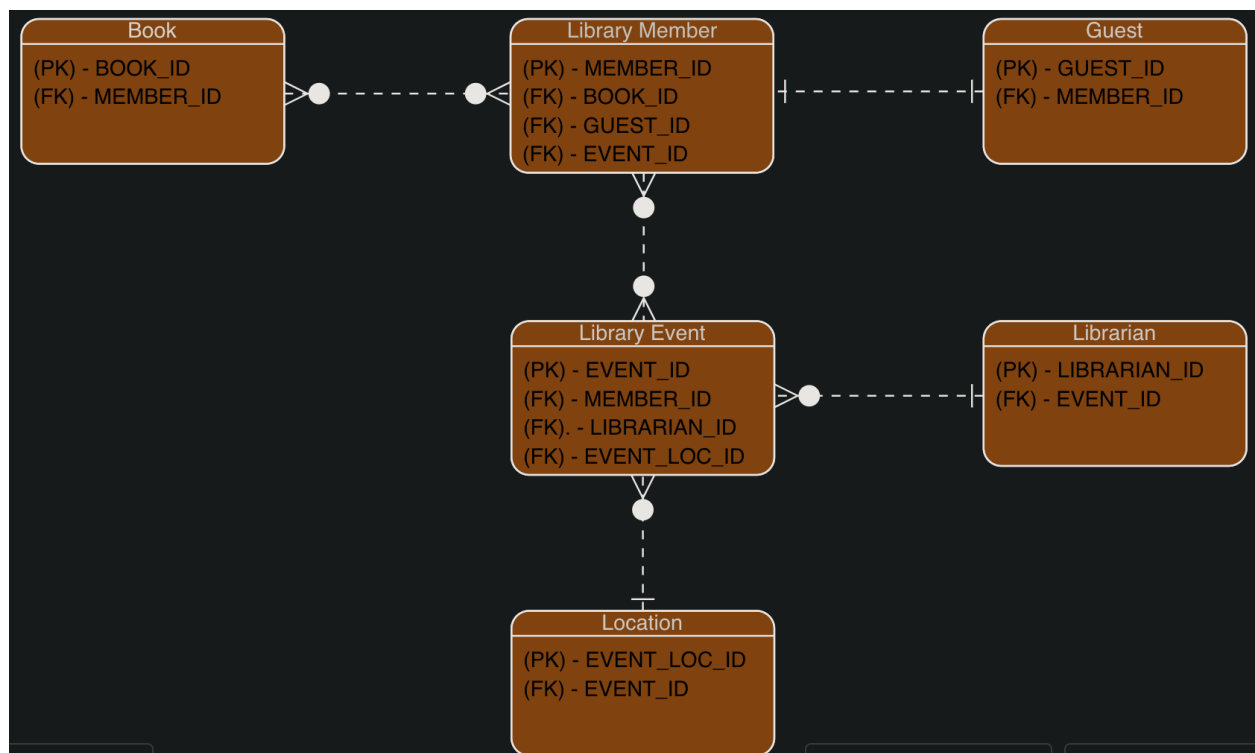
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In-Class Assignment #2: Chapter 3

1. Using the description and business rules below, please create an ERD diagram that represents those business rules. Please include the entities, relationships (Connectivity Only), and primary and foreign keys.

The Lanclos Library is interested in developing a new reporting system that keeps track of book renting and other major library functions. The following are the desired business rules for the new library system:

- Each book can be rented by many library members.
- Each member can be rented by many methods.
- Members can sign up for many library events.
- Each event can host many members.
- Each event is owned by one librarian.
- Each librarian can organize many events.
- Each event has one location.
- Each location can host many events.
- Each member can have one guest membership
- Each guest can be hosted by one member.



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2. The tables below provide the resulting data using the respective relational algebra.
Please put data in table format.
- Select * from the Library where Zip Code = 12345
 - Project Book Name and Author from Book.

Library

Library ID	Library Name	Address	City	State	Zip Code
100	Central Library	123 Main St.	Anytown	CA	12345
101	East Branch	456 Oak Ave.	Someville	CA	54321
102	West Branch	789 Maple St.	Otherburg	CA	67890
103	North Branch	321 Pine St.	Anytown	CA	12345

Book

Book ID	Book Name	Author	Publisher	Library ID
1001	To Kill a Mockingbird	Harper Lee	J.B. Lippincott & Co.	100
1002	1984	George Orwell	Harvill Secker	101
1003	The Catcher in the Rye	J.D. Salinger	Little, Brown and Company	102
1004	The Great Gatsby	F. Scott Fitzgerald	Charles Scribner's Sons	103

a)

Library ID	Library Name	Address	City	State	Zip Code
100	Central Library	123 Main St.	Anytown	CA	12345
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b)

Book Name	Author
To Kill a Mockingbird	Harper Lee
1984	George Orwell
The Catcher in the Rye	J.D. Salinger
The Great Gatsby	F. Scott Fitzgerald