



BT2102

Assignment 1:

A Library System

Group 15

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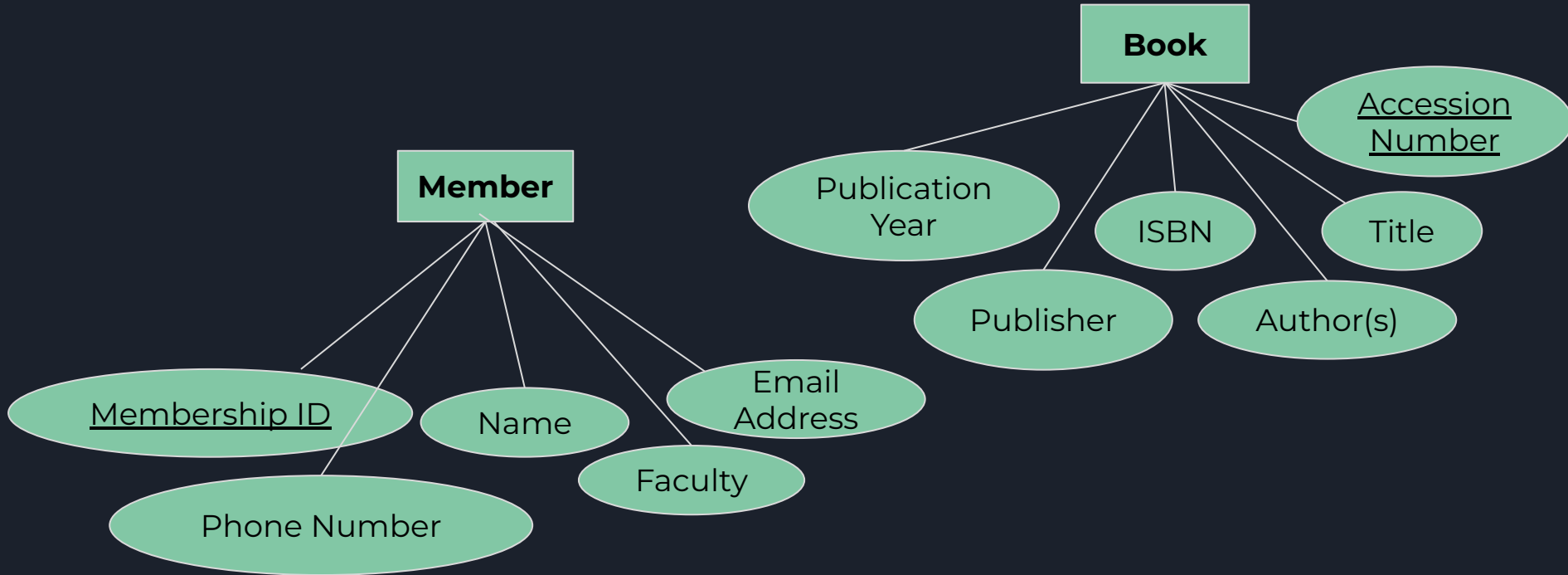
Koh Zhe Wei

Ng Chek Khau

Tan Chong Ren

The Final Entities and Attributes:

Member, Book



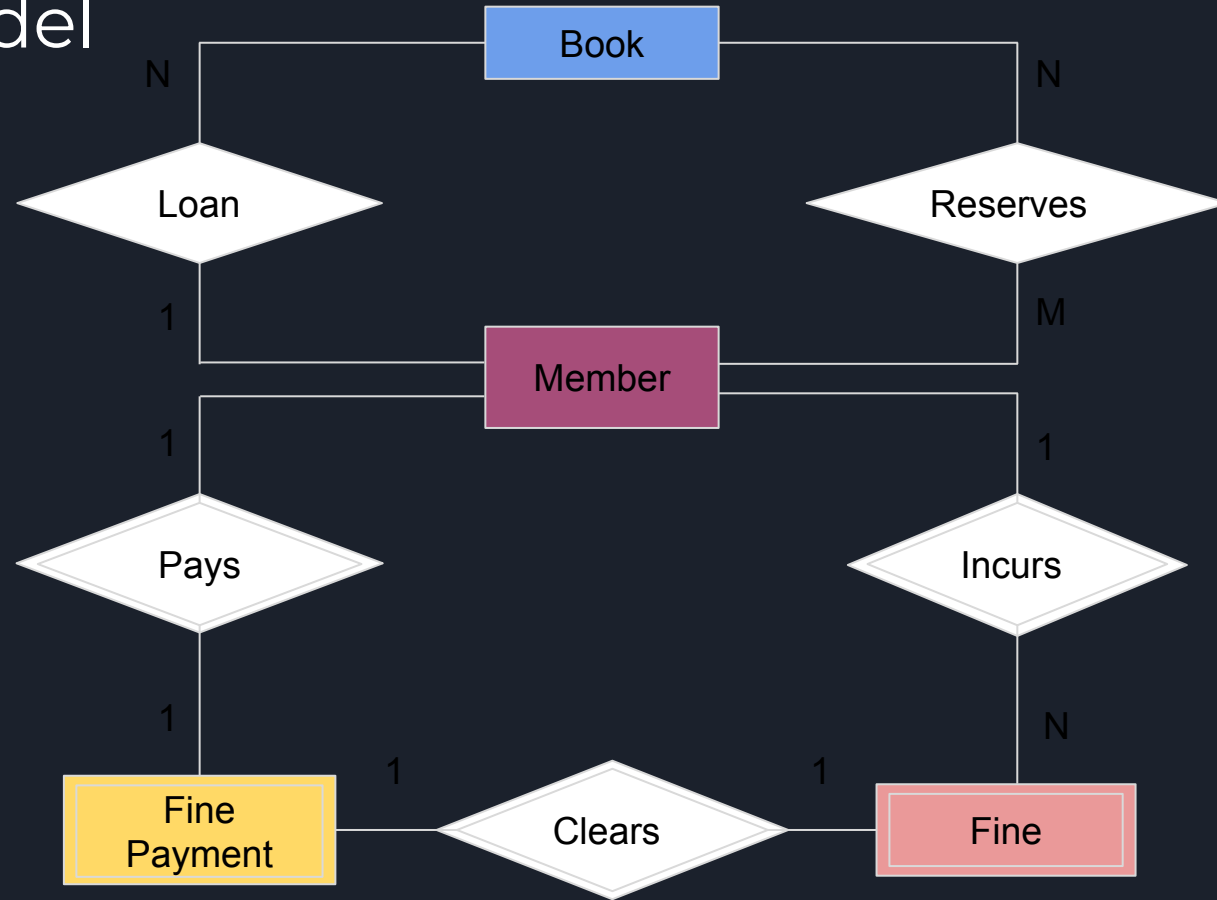


The Final Entities and Attributes:

Fine, Fine Payment



The Final Conceptual Data Model





The Final Schema

1. Member (MembershipID, Name, Faculty, PhoneNumber, Email)
2. Book (AccessionNumber, MembershipID, BorrowDate, ReturnDate, DueDate, ISBN)
3. BookInformation (ISBN, Title, Publisher, PublicationYear)
4. Fine (MembershipID, PaymentAmount)
5. FinePayment (MembershipID, PaymentDate)
6. Author (ISBN, Author, Author2, Author3)
7. Reserves (AccessionNumber, MembershipID, ReserveDate)

The Final Logical Data Model

<p>Member (MemberID, Name, Faculty, PhoneNumber, Email)</p> <p>Primary Key MemberID</p> <p>Foreign Key MemberID references Fine</p> <p>Foreign Key MemberID references FinePayment</p>	<p>Book (AccessionNumber, MemberID, BorrowDate, ReturnDate, DueDate ISBN)</p> <p>Primary Key AccessionNumber</p> <p>Foreign Key MemberID references Member</p> <p>Foreign Key ISBN references BookInformation</p> <p>Foreign Key ISBN references Author</p>
<p>BookInformation (ISBN, Title, Publisher, PublicationYear)</p> <p>Primary Key ISBN</p>	<p>Fine (MemberID, PaymentAmount)</p> <p>Primary Key MemberID</p>
<p>Author (ISBN, Author, Author2, Author3)</p> <p>Primary Key ISBN</p>	<p>FinePayment (MemberID, PaymentDate)</p> <p>Primary Key MemberID</p>
<p>Reserves (AccessionNumber, MemberID, ReserveDate)</p> <p>Primary Key AccessionNumber, MemberID</p>	