

BT2102

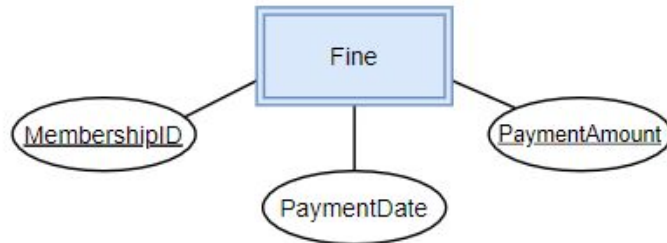
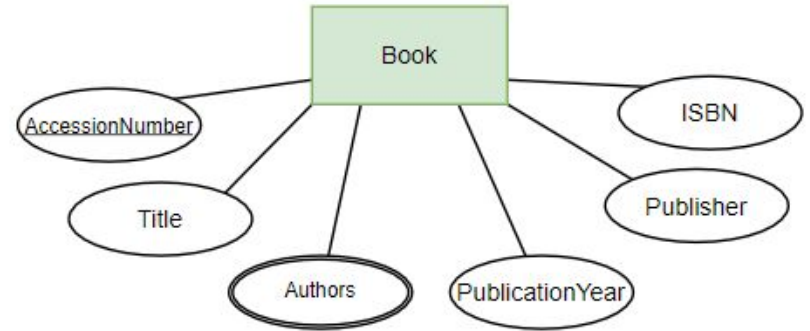
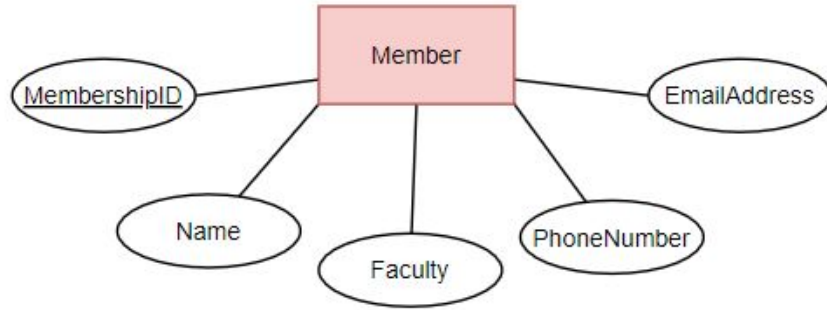
ASSIGNMENT 1

GROUP 75

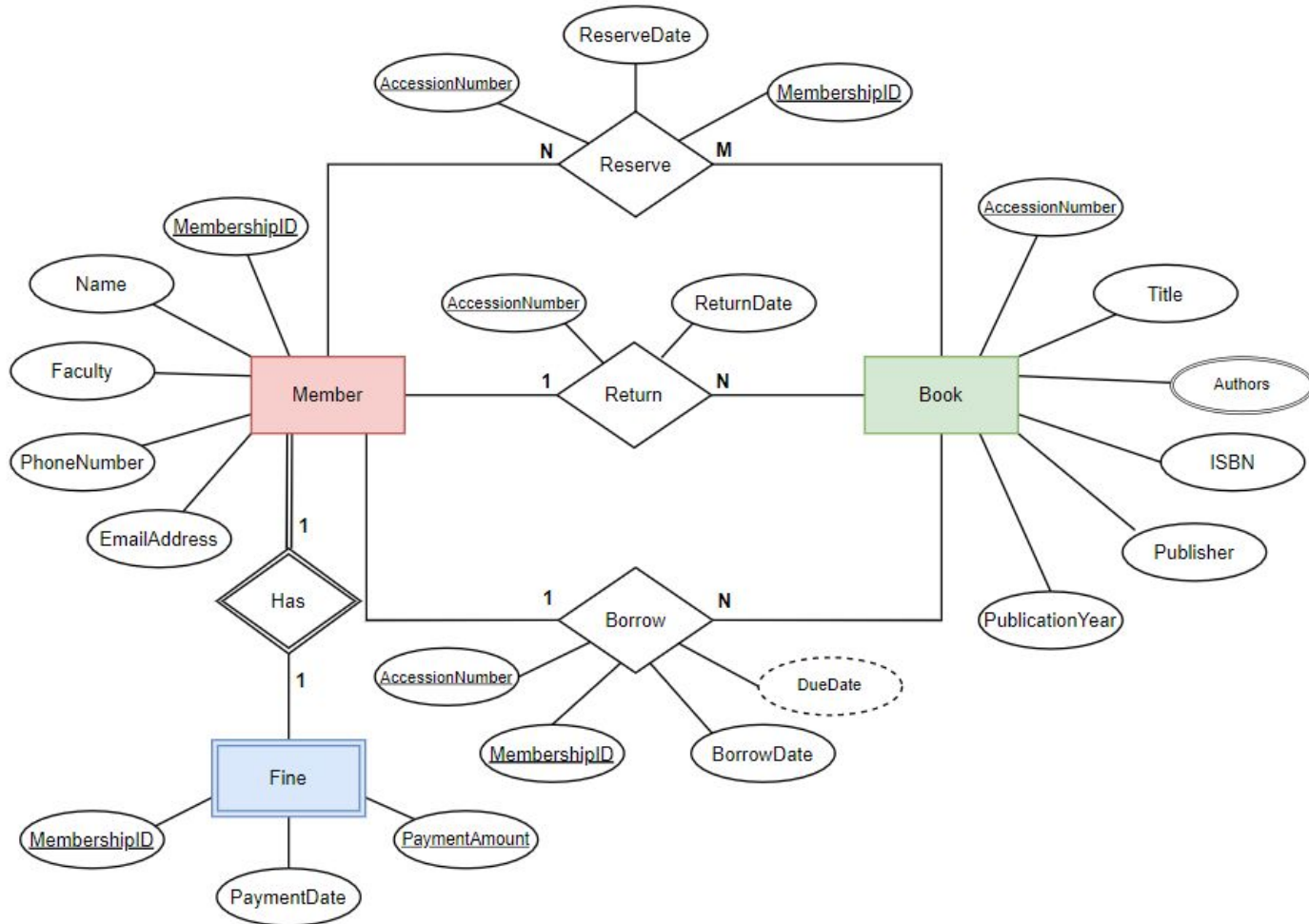
Evelyn Welter Lim
Nguyen Hong Phuc Nguyen
Pwint Thiri Ko
Qu Yuchen

Final Entities and Attributes:

Member, Book, Fine



Final Conceptual Data Model



Final Logical Data Model

<p>Member(<u>membershipID</u>, name, faculty, phoneNumber, emailAddress, paymentAmount, paymentDate)</p> <p>Primary Key membershipID</p>	<p>Book(<u>accessionNumber</u>, title, isbn, publisher, publicationYear, membershipID, returnDate, borrowDate, dueDate,)</p> <p>Primary Key accessionNumber Foreign Key membershipID references Members(membershipID) Derived dueDate (borrowDate + 14)</p>
<p>Reserve(<u>accessionNumber</u>, <u>membershipID</u>, reserveDate)</p> <p>Primary Key accessionNumber, membershipID Foreign Key accessionNumber references Book(accessionNumber) Foreign Key membershipID references Members(membershipID)</p>	<p>Authors(<u>accessionNumber</u>, <u>authorName</u>)</p> <p>Primary Key authorName Foreign Key accessionNumber references accessionNumber</p>

Final Logical Schema

Member(MembershipID, Name, Faculty, PhoneNumber, EmailAddress)

Book(AccessionNumber, Title, Authors, ISBN, Publisher, PublicationYear, **MembershipID**,
BorrowDate, **DueDate**, **ReturnDate**)

Author(AccessionNumber, AuthorName)

Fine(MembershipID, PaymentDate, PaymentAmount)

Reserve(AccessionNumber, MembershipID, ReserveDate)