

BT2102

Assignment 1

Group 72

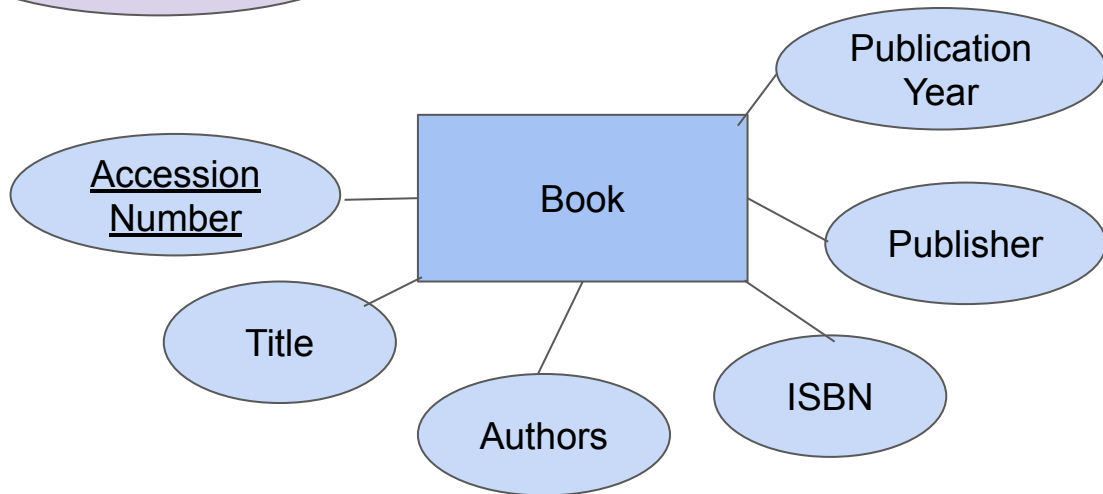
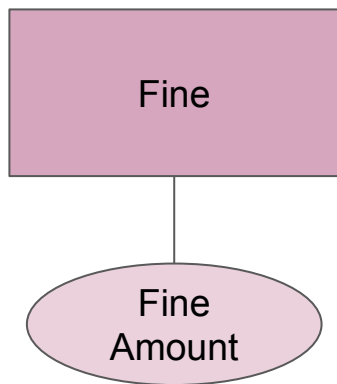
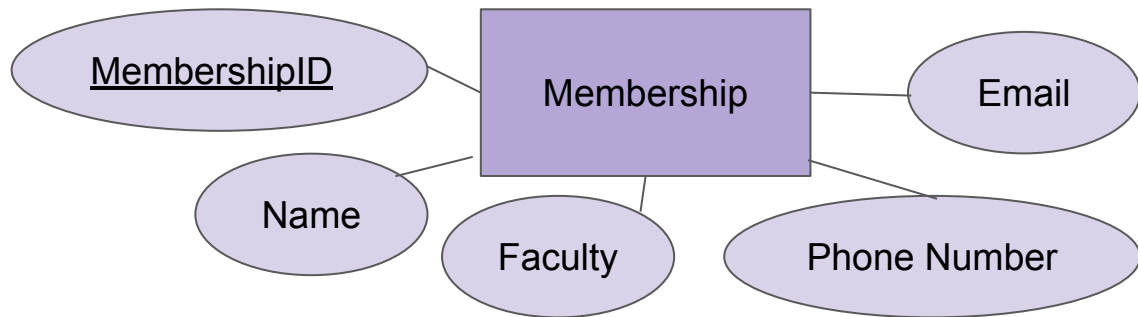
Angela Wong - A0239662W

Chan Chen Yang - A0233968N

Hor Jia Wei - A0240629E

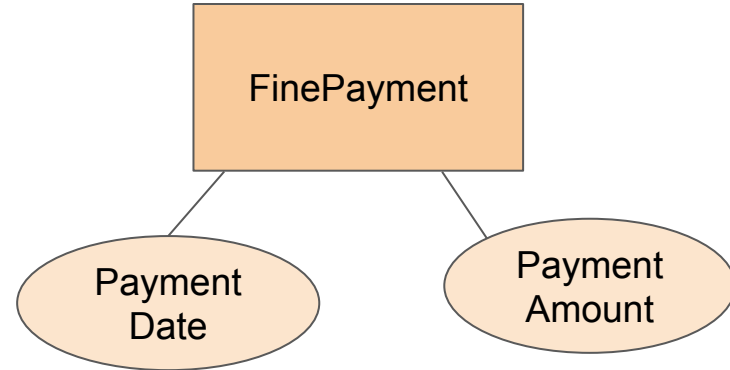
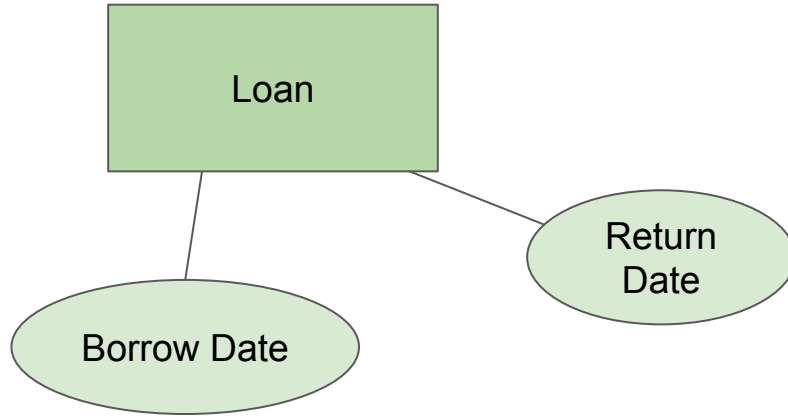
Lim Yi Han - A0239065B

Final Entities and Attributes: Membership, Book, Fine

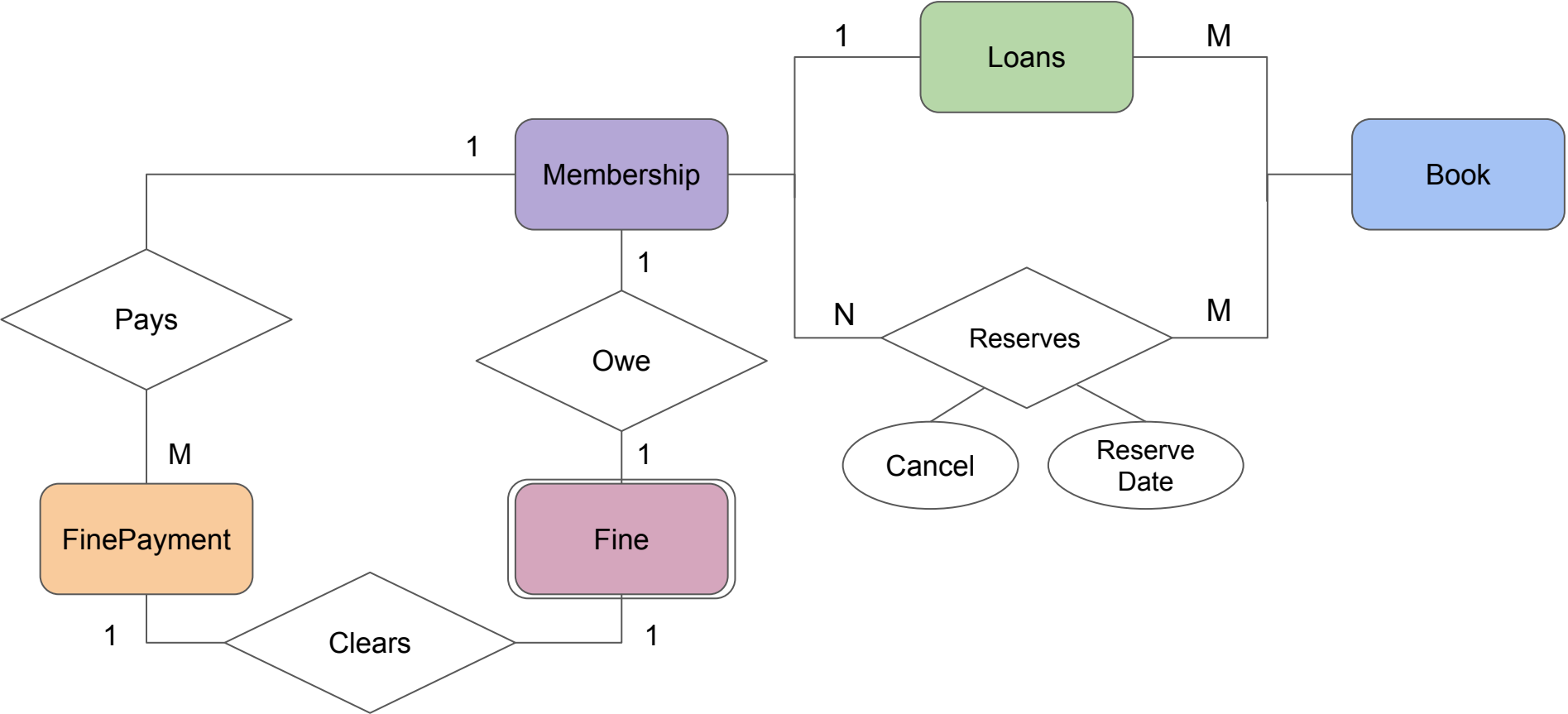


Final Entities and Attributes:

Loan, Reserve, FinePayment



Final Conceptual Data Model



Final Logical Schema

Membership(MembershipID, Name, Faculty, Phone, Email, MembershipStatus)

Fine (MembershipID, LoanID, FineAmount, ReturnDate, DueDate)

FinePayment(MembershipID, PaymentDate, PaymentAmount)

Book(AccNo, Title, Authors, ISBN, Publisher, PublicationYear)

Loan(LoanID, MembershipID, AccNo, BorrowDate, DueDate)

Reserve(MembershipID, AccNo, ReserveDate, CancelStatus)

Final Logical Data Model

Membership(<u>MembershipID</u> , Name, Faculty, Phone, Email, MembershipStatus) Primary Key: MembershipID	Loan(<u>LoanID</u> , <u>MembershipID</u> , <u>AccNo</u> , BorrowDate, DueDate) Primary Key: LoanID Foreign Key: MembershipID references Membership(MembershipID) Foreign Key: AccNo references Book(AccNo)
Fine(MembershipID, <u>LoanID</u> , FineAmount, ReturnDate, DueDate) Primary Key: LoanID	Reserve(<u>MembershipID</u> , <u>AccNo</u> , ReserveDate, CancelStatus) Primary Key: AccNo Foreign Key: MembershipID references Membership(MembershipID)
FinePayment(<u>MembershipID</u> , PaymentDate, PaymentAmount) Primary Key: MembershipID	Book(<u>AccNo</u> , Title, Authors, ISBN, Publisher, PublicationYear) Primary Key: AccNo