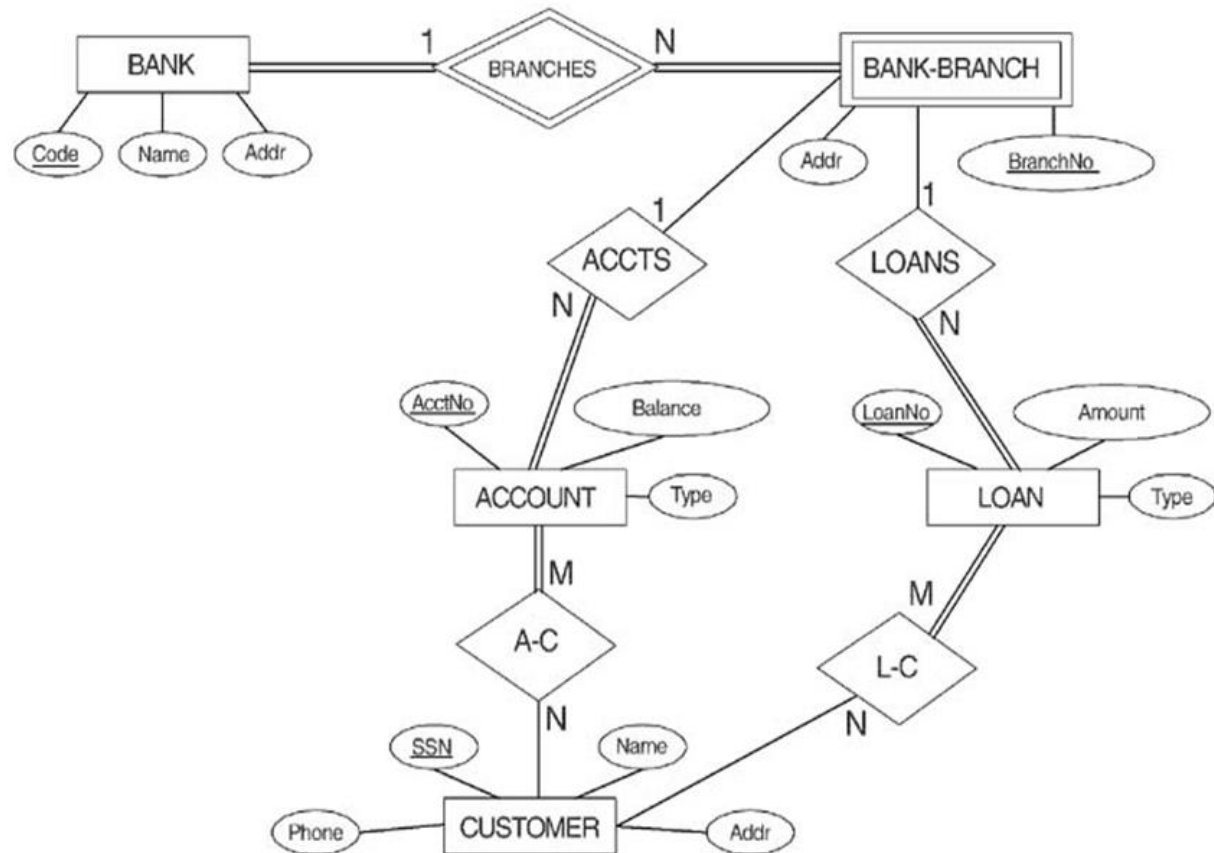


Name – SOUMYA BAIRAGYA

ER to Relational Models

1.



Bank (Code, Name, Addr)

Bank - Branch (Code, Branch No, Addr)

Account (AcctNo, Balance, Type, Code, BranchNo)

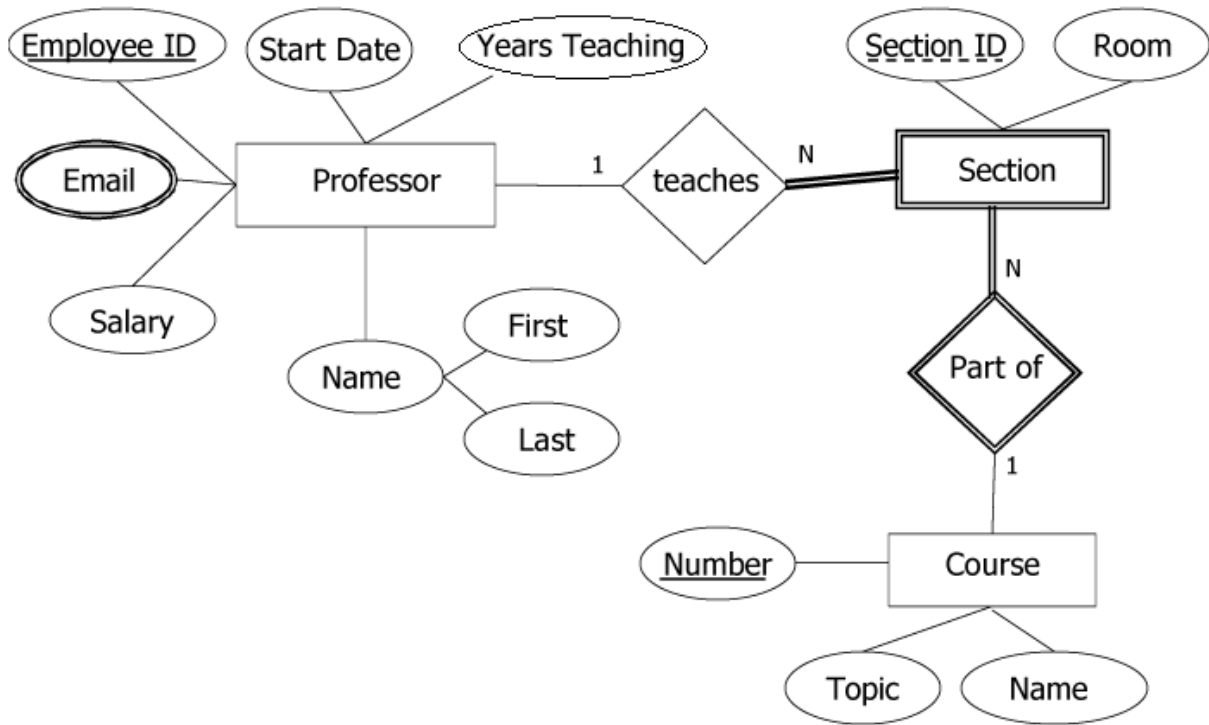
Loan (loanNo, Amount, Type, Code, BranchNo)

Customer (SSN, Name, Addr, phone)

A - C (AcctNo, SSN)

L - C (LoanNo, SSN)

2.



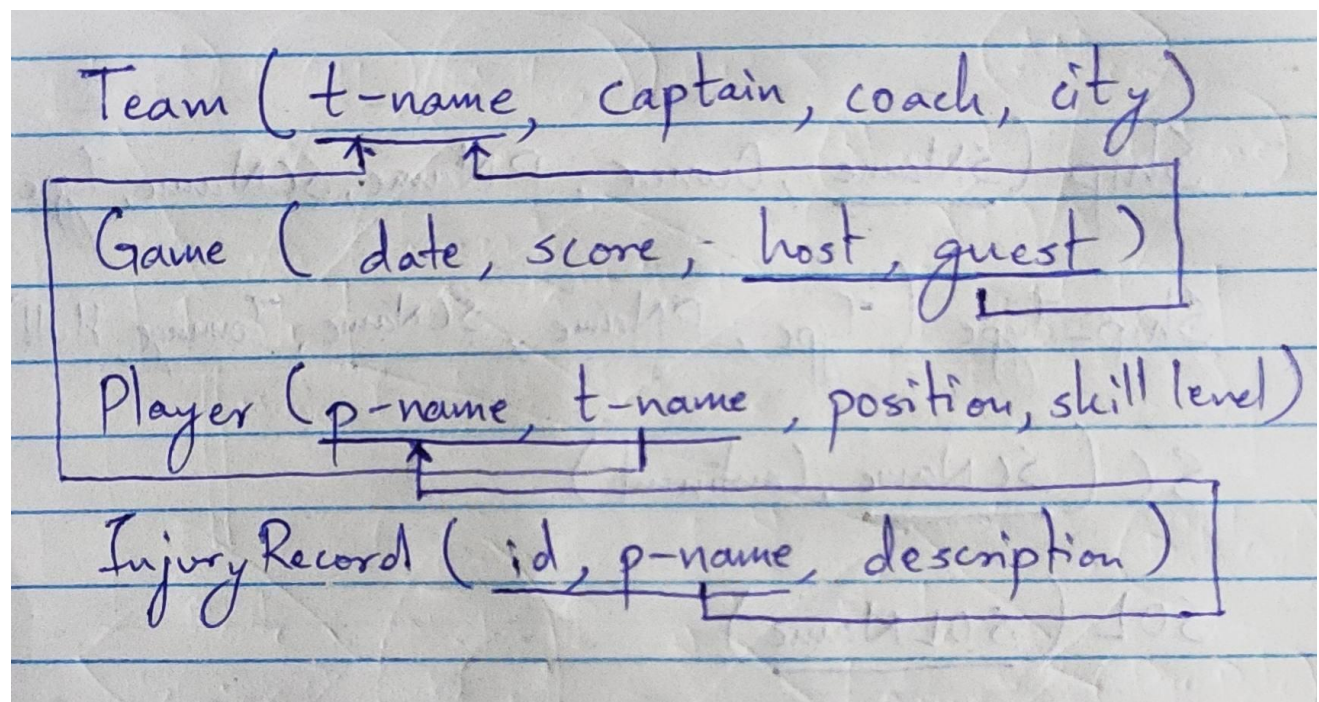
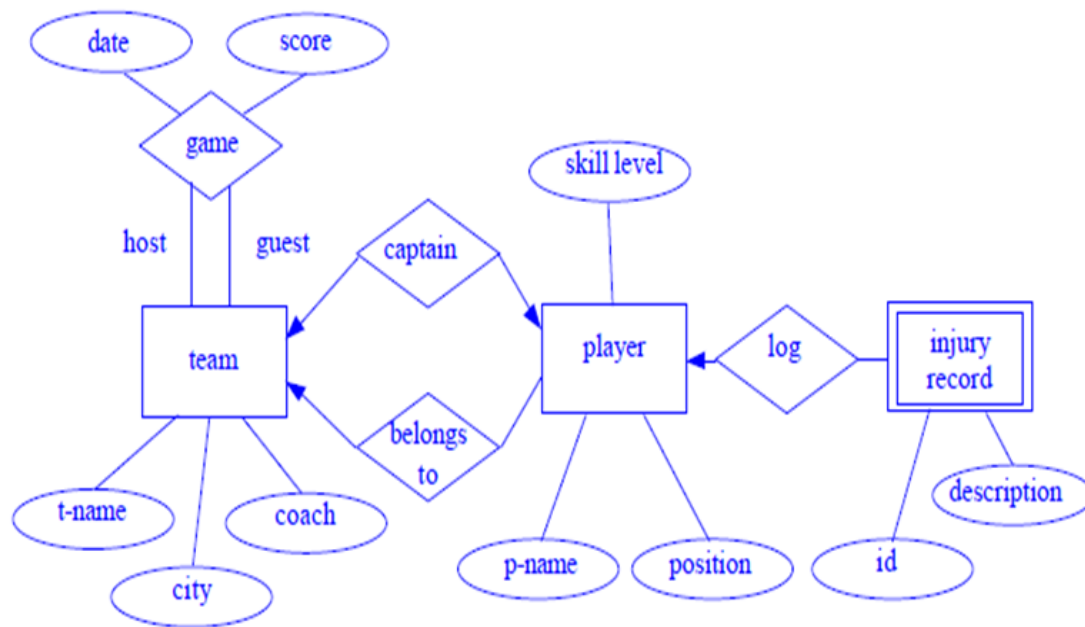
Professor (Employee ID, Start Date, Years Teaching,
Salary, FirstName, LastName)

Contact (Employee ID, Email)

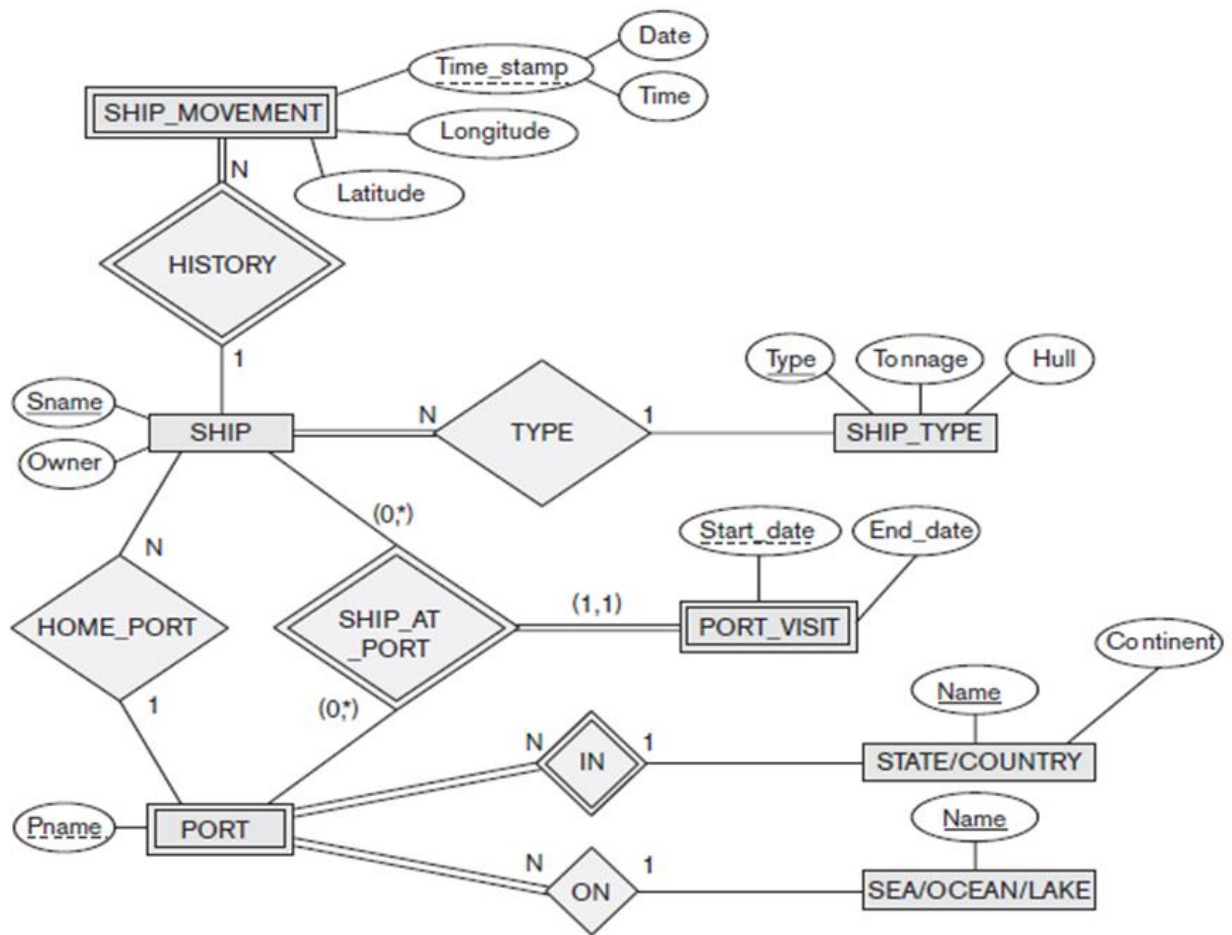
Section (Number, Employee ID, Section ID, Room)

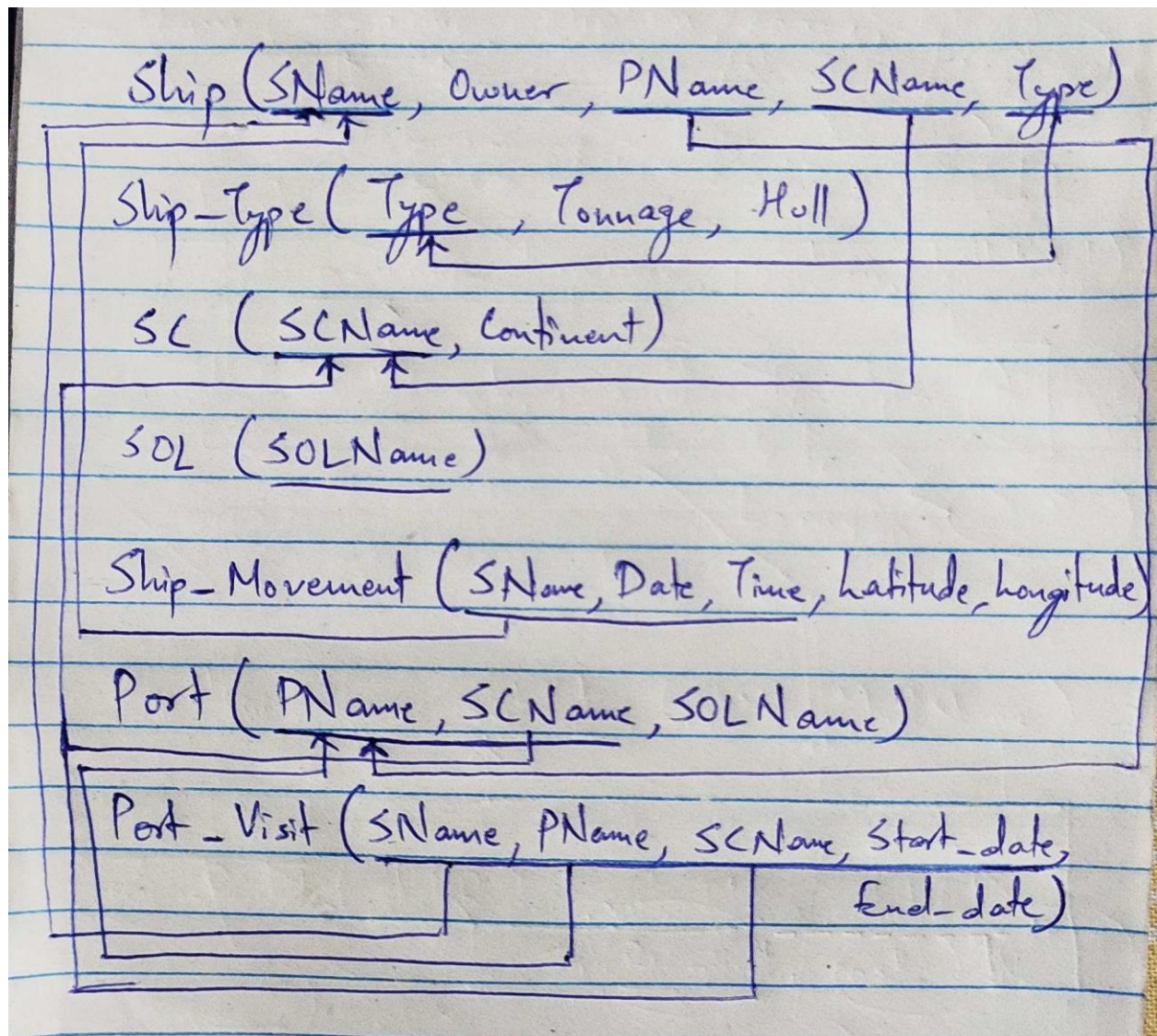
Course (Number, Name, Topic)

3.

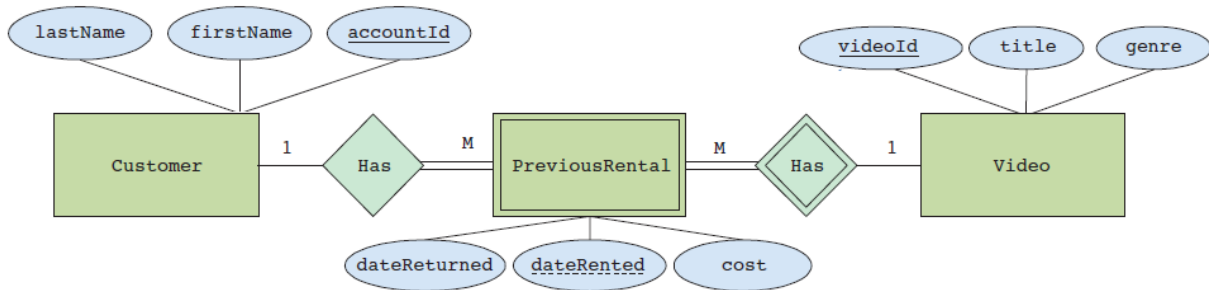


4.



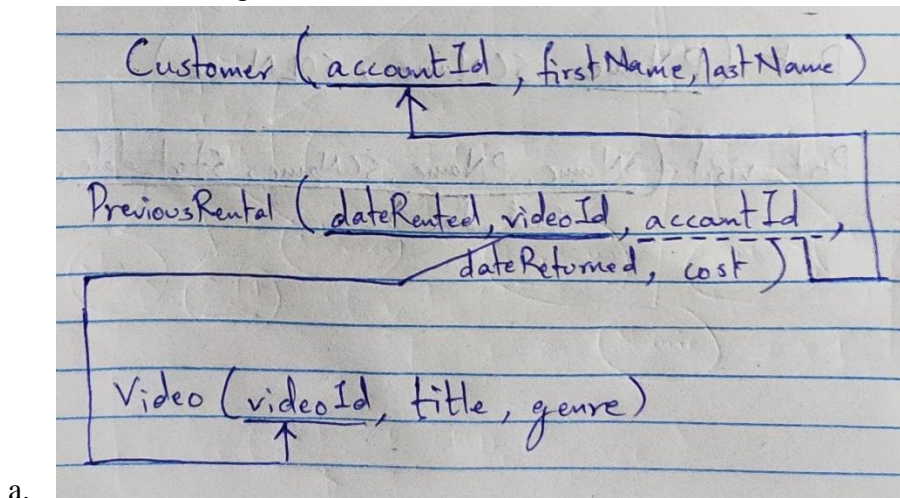


5.



Based on the above E-R diagram, answer the following questions:

- i. Name the strong and weak entity sets.
 - a. Strong – Customer, Video
Weak - PreviousRental
- ii. Which is the identifying entity set, primary key and discriminator for the weak entity set?
 - a. Identifying Entity Set – Video
Primary Key – videoId, dateRented
Discriminator - dateRented
- iii. Name entity sets with total and partial participation in the relationship set.
 - a. Total Participation – PreviousRental
Partial Participation – Customer, Video
- iv. Draw schema diagram.



6. Map the relational schema in Figure into an ER schema

