Homework #1: Chapters One & Two
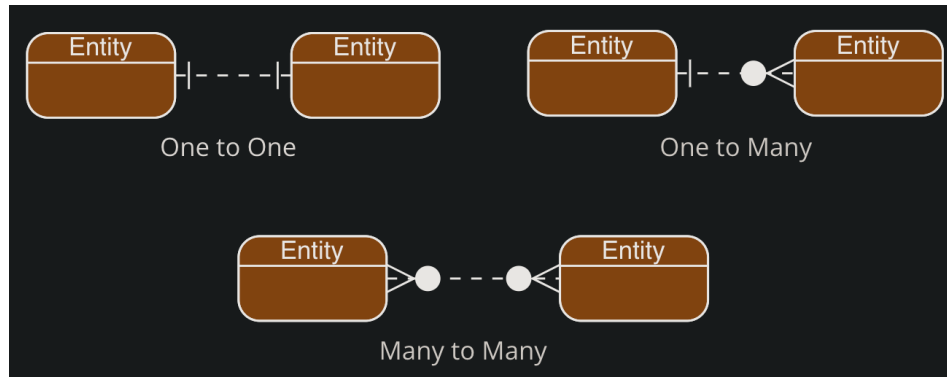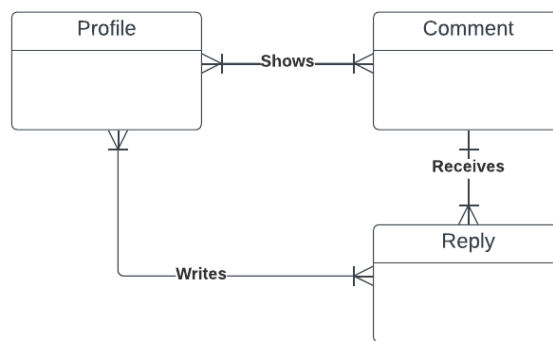
1. **Using the Crow's Foot Notation, demonstrate the three types of relationships (10 Points).**

2. **Write the business rules that are reflected in the following ERD (18 Points).**
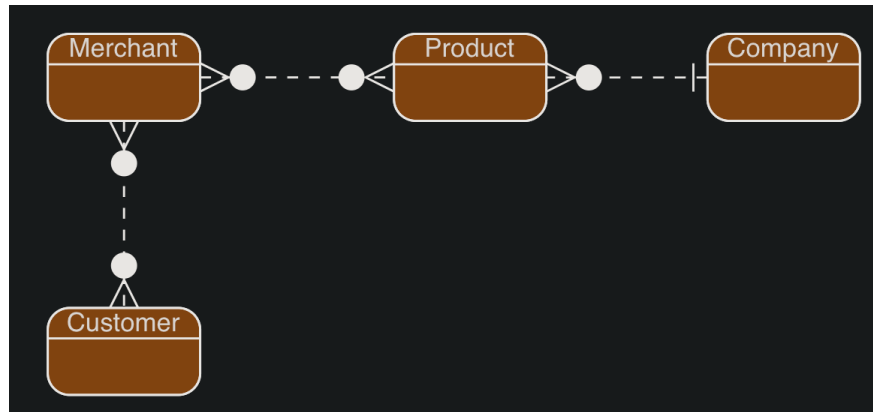

A) A profile has many Comments.
B) Comments come from many Profiles.
C) Profiles have many Replies.
D) Replies have many Profiles.
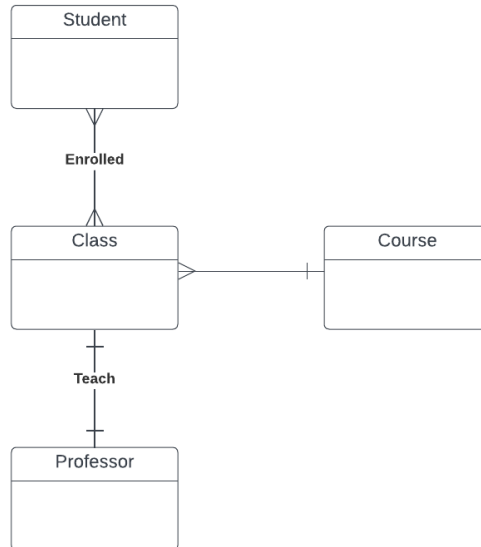E) Comments have many Replies.
F) Replies have one Comment.

3. **Create a Crow's Foot ERD to include the following business rules. Include all the relationships (You do not have to use relationship labels) (18 Points).**
   a. Each merchant sales many products.
   b. Each product is sold by many merchant.
   c. Each product is created by only one company.
   d. Each company makes many products.
   e. Each customer can buy from many merchants.
   f. Each merchant can sell to many customers.

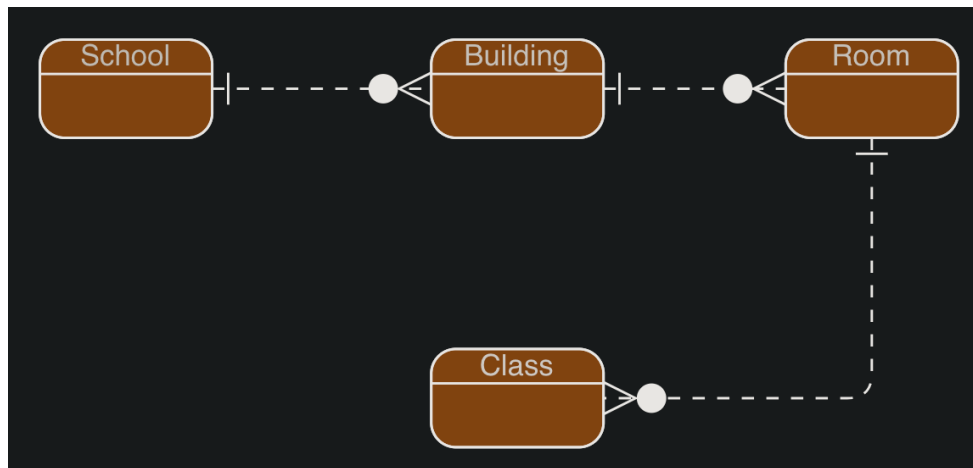4. **Write the business rules that are reflected in the following ERD(18 Points).**

A) Students have many Classes.
B) Classes have many Students.
C) Classes have one Course.
D) Courses have many Classes.
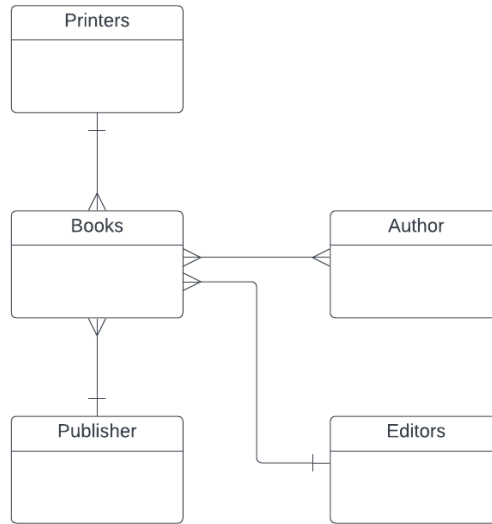E) CLasses have one Professor.
F) Professors have one Class.

5. **Create a Crow's Foot ERD to include the following business rules. Include all the relationships (You do not have to use relationship labels) (18 Points).**
   a. Each school can have many buildings.
   b. Each building can only be in only one school.
   c. Each building can have many rooms.
   d. Each room can only be in one building.
   e. Each room can have many classes.
   f. Each class can be in one room.

6. Write the business rules of the entity relationship diagram below (18 Points).

A) Printers have many Books.
B) Books have one Printer.
C) Books have many Authors.
D) Authors have many Books.
E) Books have one Editor.
F) Editors have many Books.
G) Books have one Publisher.
H) Publishers have many Books.