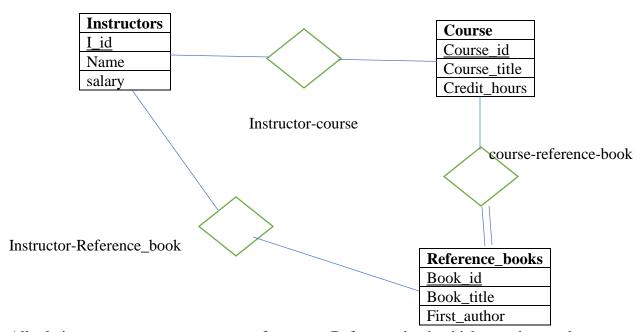
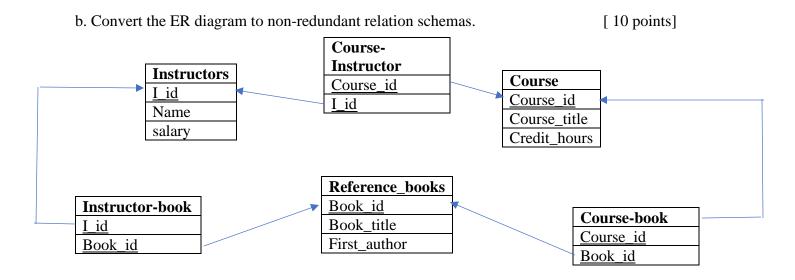
Chris Grimes CS 33007

- Homework 5
- 1. The computer science department has three entity sets instructors(i_id, name, salary), courses(course id, course title, credit hours) and reference books(book id, book title, first_author).
- a. Draw an ER diagram for these entity sets. Please note that each course must have at least one reference book. [15 points]

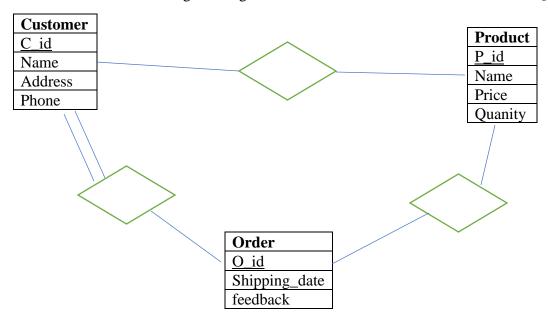


All relations are many to many, except for course-Reference_book which must have at least one book.



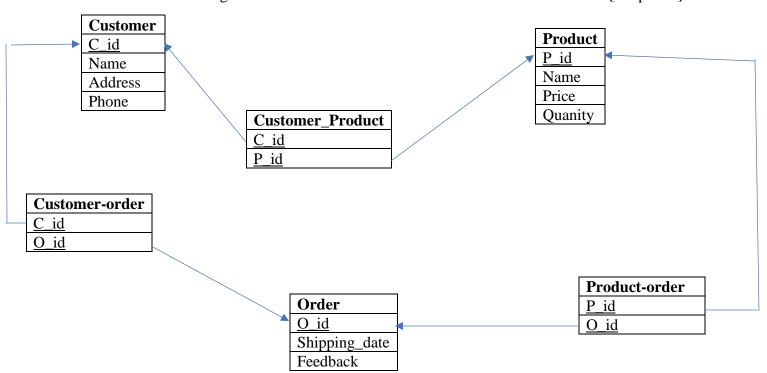
- 2. For an E-commerce system, you want to store information about the customers, products, the orders, and the customer comments/feedback about each product.
- a. Model the database using ER diagram

[25 points]



b. Convert the ER diagram to non-redundant relation schemas.

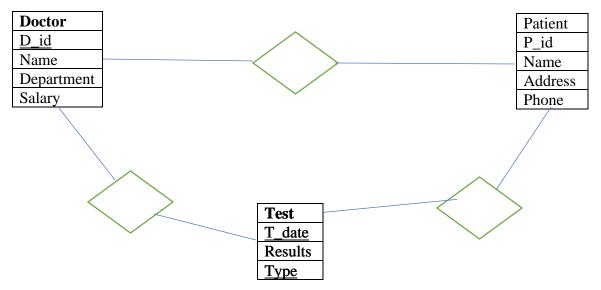
[10 points]



Homework 5

- 3. For a hospital, we want to store information about patients, doctors. We also would like to keep records of various tests conducted for each patient.
- a. Model the database using ER diagram

[25 points]



b. Convert the ER diagram to non-redundant relation schemas.

[15 points]

