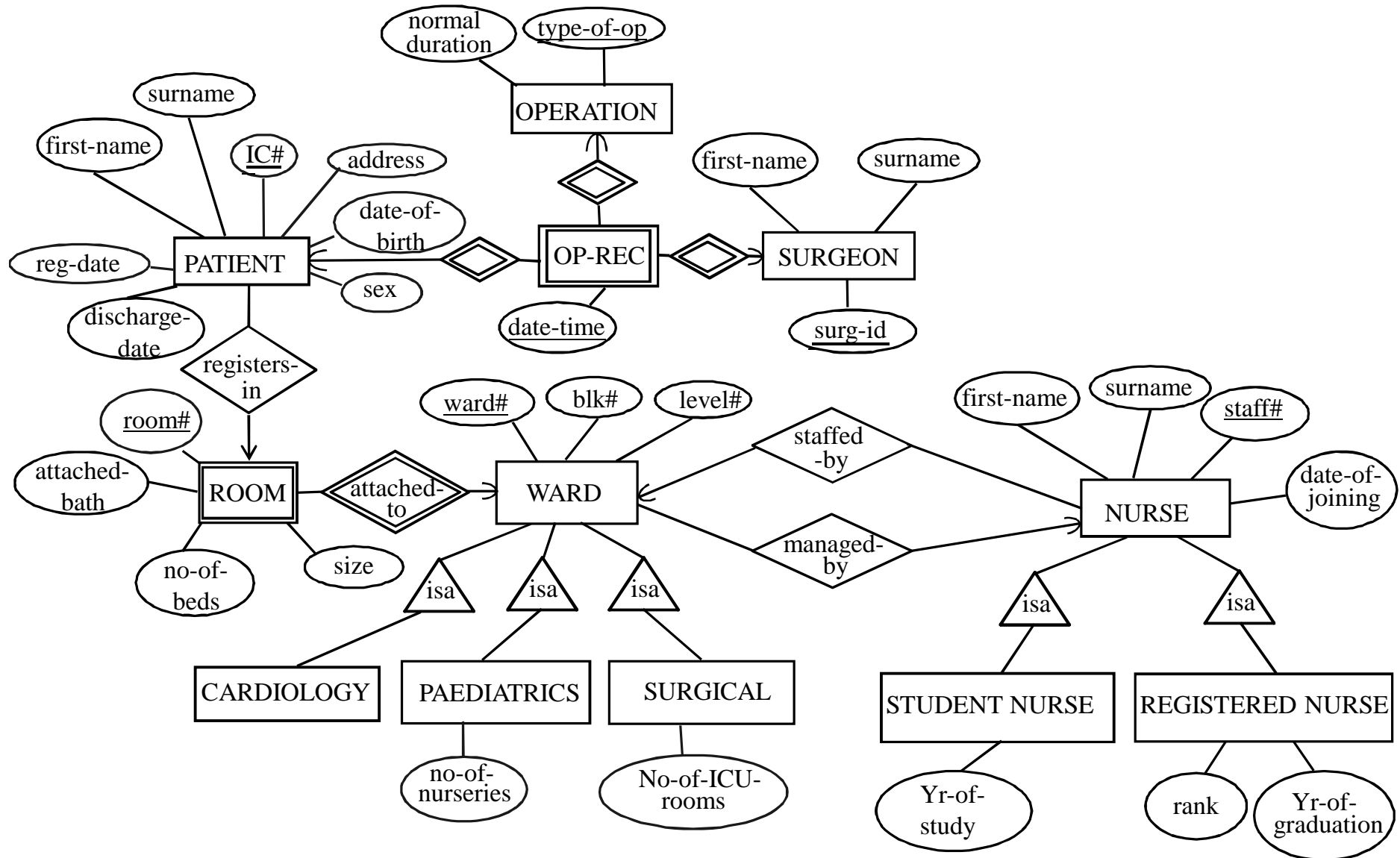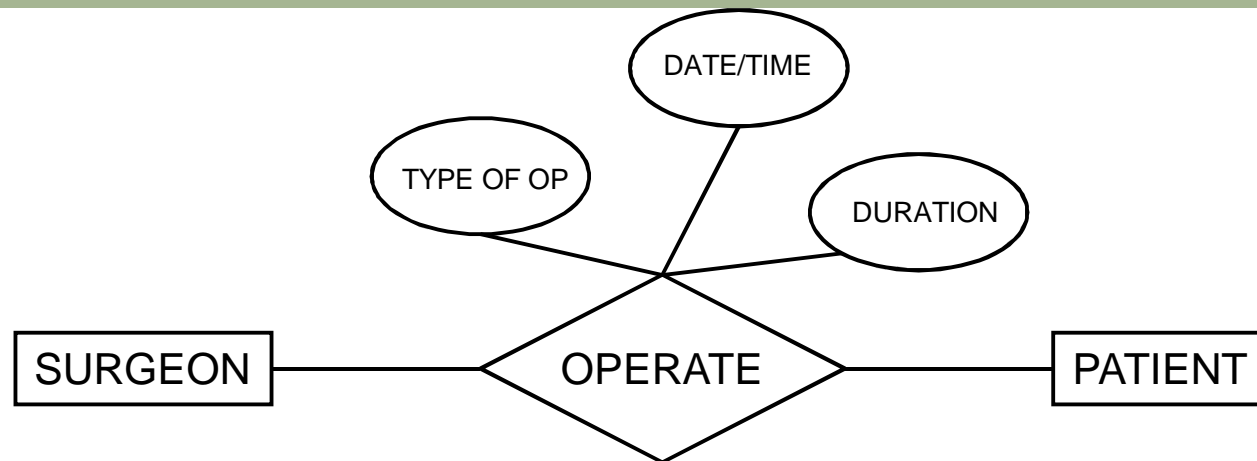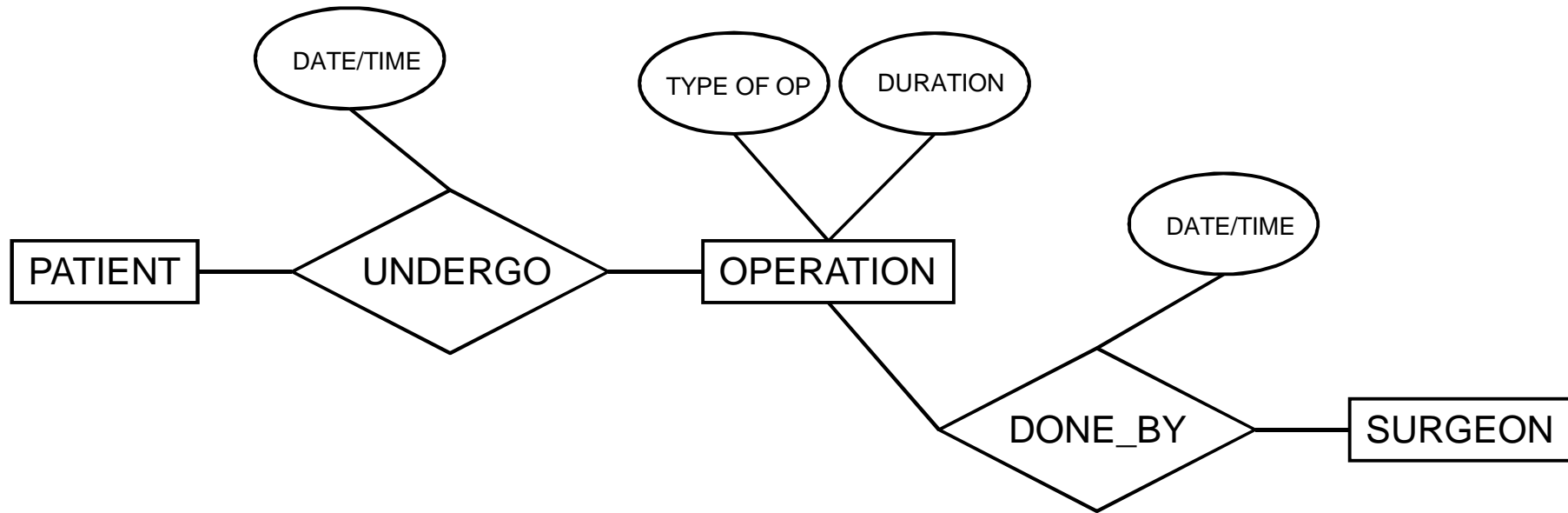# Exercise 1: Solution
ER Modeling

DBS

- Multiple correct solutions are possible.

- The model solutions provide only one correct solution/ direction (along with some assumptions $\rightarrow$ identify those assumptions).

- You must write your additional assumptions together with your solution.

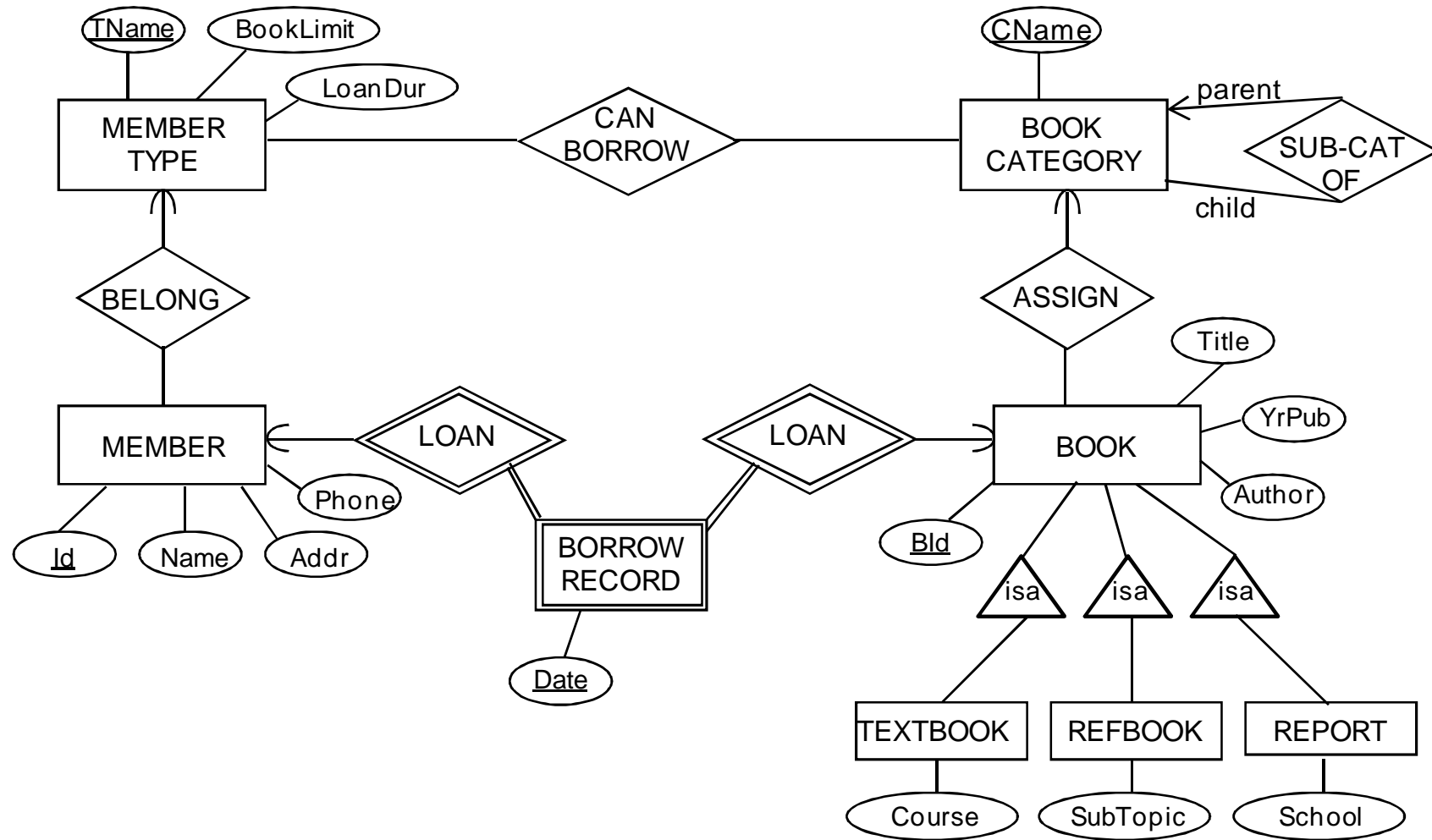- Discuss your alternative solutions and assumptions with the TA.

Question 1

- Problems with this approach:

- Can't capture operations that are not performed (as given in text); create OPERATION as entity will solve this; also allows some OPERATION to be involved in a relationship, and some don't

- If "heart surgery" is performed many times, "type" and "duration" will have the same values and repeated many times

- Problems with this approach:

- DATE/TIME repeated

- How to ensure that operations undergone by PATIENTS are those performed by SURGEONS

Question 2

Question 3