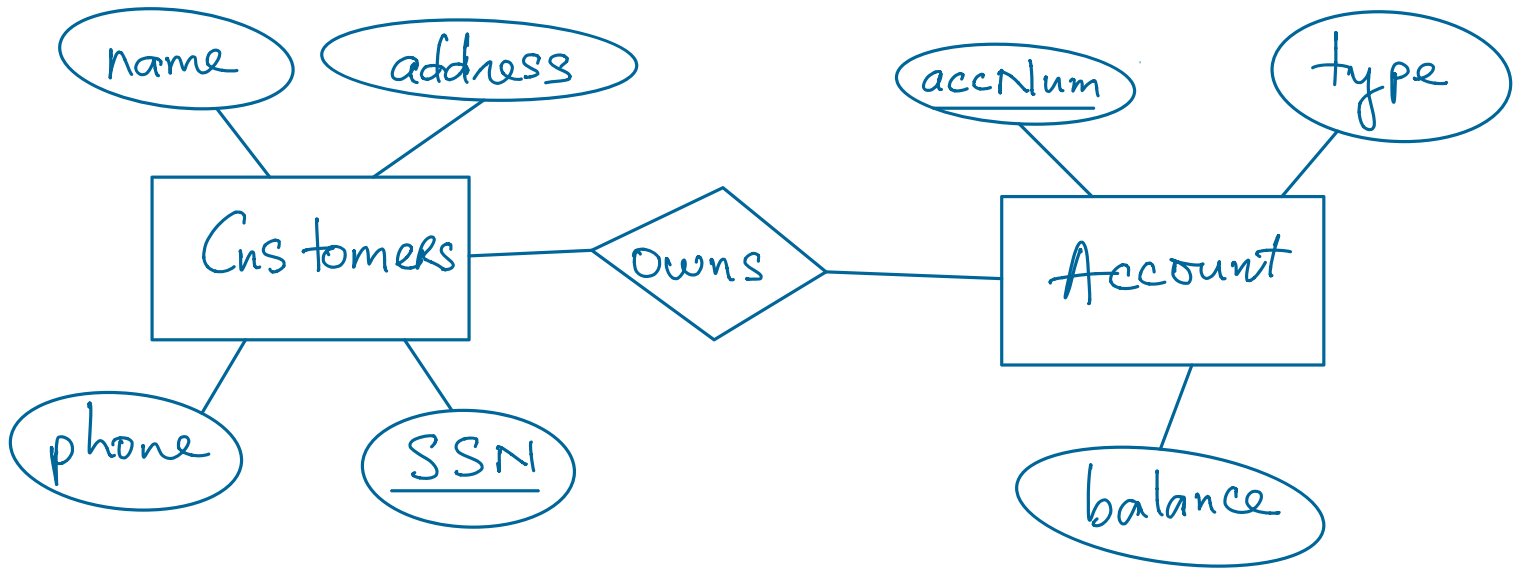


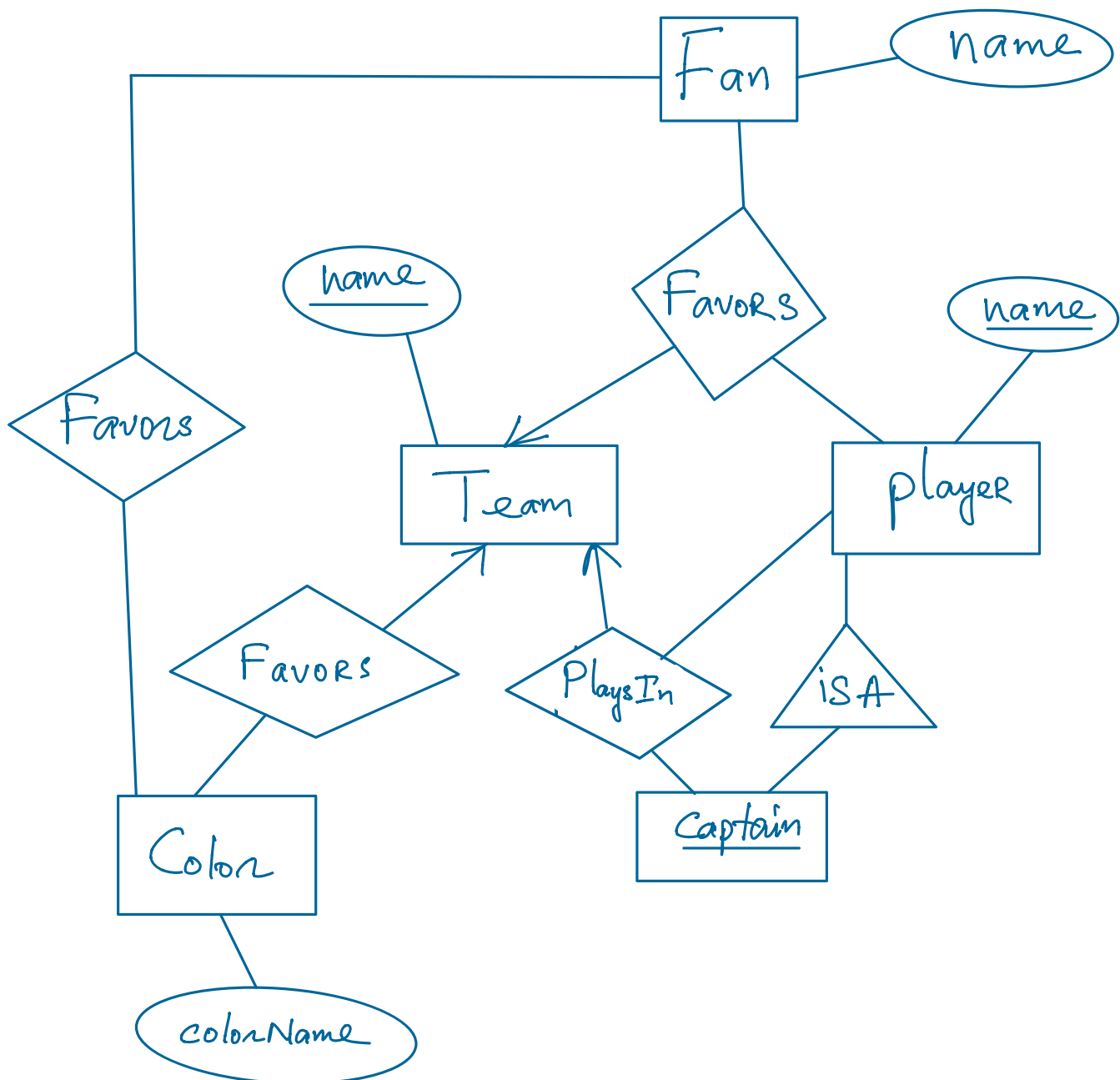
-- UNIVERSITY OF MASSACHUSETTS - LOWELL
-- COMP3090: DATABASE I
-- STUDENT: PHONG VO - SID: 01790283
-- HOMEWORK 7

Exercise 4.1.1: Design a database for a bank, including information about customers and their accounts. Information about a customer includes their name, address, phone, and Social Security number. Accounts have numbers, types (e.g., savings, checking) and balances. Also record the customer(s) who own an account. Draw the E/R diagram for this database. Be sure to include arrows where appropriate, to indicate the multiplicity of a relationship.



Exercise 4.1.3: Give an E/R diagram for a database recording information about teams, players, and their fans, including:

1. For each team, its name, its players, its team captain (one of its players), and the colors of its uniform.
 2. For each player, his/her name.
 3. For each fan, his/her name, favorite teams, favorite players, and favorite color.
- Remember that a set of colors is not a suitable attribute type for teams. How can you get around this restriction?



Exercise 4.1.6: Design a genealogy database with one entity set: People. The information to record about persons includes their name (an attribute), their mother, father, and children.

