

CSE 370– Database Systems

Assignment 3

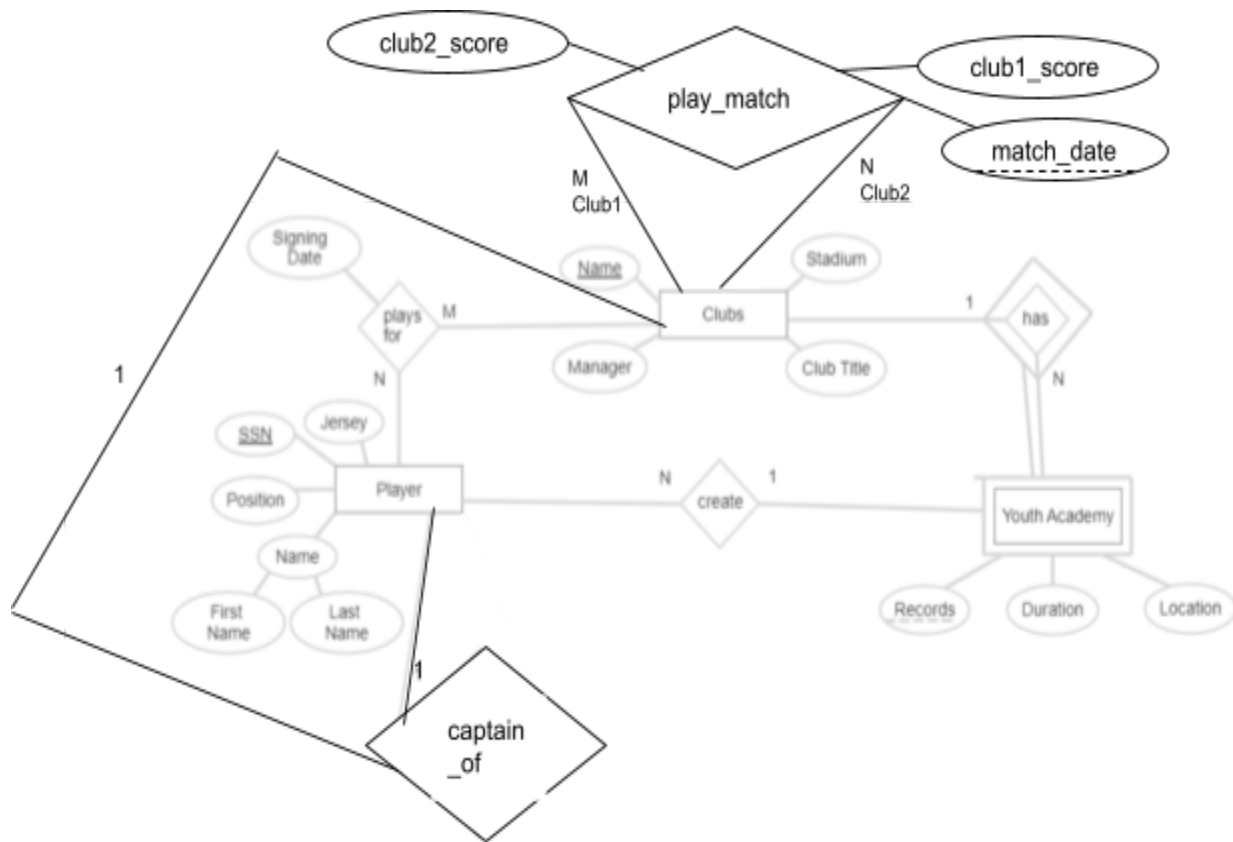
Spring 2023

Submission Instructions:

1. Write your name, id, section on top of the first page
2. Solution should be **HAND WRITTEN**, take a picture and **make a PDF**.
3. Submit Online on the following form: <https://forms.gle/GMXBuxySHy6T1oLJ9>
4. Submission Deadline: 6th April, Thursday 11:59 pm (midnight)
5. **NO LATE SUBMISSION WILL BE ACCEPTED. START EARLY**

QUESTION 1:

Construct a schema diagram given the ER diagram below. [10 points]



QUESTION 2

There are Food Items with the following attributes: ID (unique), Name, Price, Description. The food Items can fall under any of the three categories: Indian Item, Japanese Item and Chinese Item. There are no other categories. Some food items are fusions, so they can fall under multiple categories. Indian Items have an origin_state attribute, Japanese items have a calorie count attribute and Chinese Items have Chef's name attribute.

A. Represent the above scenario using an EER diagram. [2 Points]

B. There are four options for mapping specialization/generalization. Map the above EER using all four options. If any option is not applicable for the above scenario then explain why. [8 points]

QUESTION 3

Construct a schema diagram given the EER diagram below. If there are multiple options to map anything, then choose only one of the applicable options[5 points]

