

# Database Systems

Total: 100 Points

Q1. (100 points)

In assignment-2, you designed an ER diagram for your favorite sport. Include that ER diagram in your solution for this assignment as well. Based on your ER and understanding of relational database, convert your favorite sport ER diagram to a database with required number of tables. Each table must be normalized to 3<sup>rd</sup> Normal Form. Include given (and assumed) functional dependencies (FD+) and closures (FD+) as well. Show the normalization steps from 1NF -> 3NF.

Solution must contain:

- a. ER diagram
- b. Tables normalized up to 3NF
- c. FDs & FD+

\*\* As a help, refer to the powerpoint slides "Converting ER Diagrams to Relational Model".