**CSE 304**

**Practice for Entity Relationship Modeling for Section A2**

Roll Number: \_\_\_\_\_\_\_\_\_\_\_\_Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_

**Management of Cricket Clubs of Bangladesh**

The aim of this system is to keep information of all the cricket players and clubs of Bangladesh. There are many cricket clubs in Bangladesh. A club is consisted with many persons of types: players, coaches, members and other staffs. It is general principle of the club to record the name, present address, permanent address and mobile information for all persons related to the club. Generally, a club signs contracts with players and other staffs for a specific time period. So a club can have many players in its lifetime and a player can also play for many clubs in his lifetime. A contract has an id, signed date, contract start date, contract end date and amount. If a contract is cancelled before being completed, the contract end date will be updated accordingly.

A club has an id and is described by club name, address and location. A club has many members and among the members, the president is selected for the club for a period of two years. A member is identified by member id and described by name, date of birth, profession and qualification. A staff is identified by staff id and is described by staff name, present address, permanent address, date of birth, professional qualification, general qualification.

A player is identified by player id and described by name, present address, permanent address, mobile and email. Players records eg., best bowler, runner, wicket keeper etc. are maintained match wise and year wise. Additionally, a player can play for multiple clubs at the same time e.g Sakib Al-Hasan can play for Dhaka Dynamites and Mohammedan at the same time.

A cricket match can be described using a match id, match start date, end date and match venue. Many clubs can participate in a match in many different dates against different clubs. A club also can participate many matches. Every club forms a team to participate for a match. In every team, there is a coach among the coaches of the club and a team leader among the players.

Task 1: Find all tentative Entity sets along-with the attributes

Task 2: Find all tentative relationship sets

Task 3: Draw Entity-Relationship Diagram (ERD) for the given Cricket Clubs Management System

Task 4: Transform the ERD into relational schems

Task 5: Write DDL for the relational schema