**CSE 304**

**Practice for Entity Relationship Modeling for Section B1**

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

**University Hall Management**

In a university, there are multiple numbers of halls for the students. A hall can only be for male or female. Each hall contains specific number of rooms for allotting to the students. Each room of a hall is labelled with a specific room number and has a specific capacity (number of seats). A room is allotted to multiple numbers of students according to room capacity. A room can be kept without allotment to any student if necessary. Students can change their rooms during their period and all these changes need to be stored. Each student has a unique id, name, gender, contact numbers and is assigned to a particular hall. But all students may not be assigned a room in the hall. In that case, he or she will be treated as attached student. Residential students can change their rooms with the permission of the provost. The annual fees for residential students are different than the attached students. Each hall is managed by a provost and three assistant provosts. Each provost and assistant provost is appointed for duration (start date and end date) and these histories have to be stored. Each hall also has some support staffs such as office assistant, sweeper, cleaner, security guard, etc each staff has an id and contact address.

Hall organizes many events every year under the supervision of provosts. A student can participate more than one event. An event will have an event id, name, venue, start date and end date. University organizes foot ball, cricket matches among halls. Each hall forms teams for different matches in different years among the students and each team has a leader from the team mates.

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 Hall Management System

Task 4: Transform the ERD into relational schems

Task 5: Write DDL for the relational schema