



# **National University**

of computer and emerging sciences

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## **Lab No. 4**

**BS Software Engineering**

**CL2005 Database Systems Lab**

**BATCH SECTION (BSSE-4B)**

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<b>Department</b>	Software Engineering

## Lab No. 4

### Instructions

1. Make a word document with the convention “**SECTION\_ROLLNO\_LAB-NO**”.
2. Once done, submit your work to the instructor on **Google Classroom**.
3. All tasks must be done by yourself. **No PLAGIARISM** is allowed. Plagiarism in any task will awarded zero in complete assignment at-least and negative marking of that assignment.

### Lab Tasks:

#### Question 1:

Each semester, each student must be assigned an adviser who counsels students about degree requirements and helps students register for classes. Each student must register for classes with the help of an adviser, but if the student’s assigned adviser is not available, the student may register with any adviser. We must keep track of students, the assigned adviser for each, and the name of the adviser with whom the student registered for the current term. Represent this situation of students and advisers with an E-R Diagram.

#### Question 2:

You are working for a large country club. This country club wants to keep a database on its members and their guests. For each member, the club keeps mail and telephone contact information, name, and membership number. When you join this club, you can join as a social member (which allows you two rounds of golf a year as well as privileges to the swimming pool and weight room), a tennis member (which allows you all the privileges of a social member as well as use of the tennis courts and four rounds of golf), or a golfing member (which allows you all the privileges of a tennis member and unlimited use of the golf course). This database needs to track how often a member (who has limited use of the golf course; all golfing members have unlimited use of the golf course) has used the golf course, and how many guests any and each member has brought to the club. All members have guest privileges. The club also wants to attract new members by mailing to all those who came to the club as guests and live in the state. The mailing includes information about their visits (i.e., date of visit and which member was their host for each visit). Once a person becomes a member of any type, information about them as guests is no longer important to retain. Develop an EER diagram for this situation.