

Practice for Entity Relationship Modeling

Roll Number: _____ **Name:** _____ **Date:** _____

BUET Management System

Consider a management system for BUET. There are multiple faculties in BUET, and each faculty has one or more departments. A faculty is identified by a faculty id, and needs the following information: faculty name, address. Each faculty has a Dean, who is also a teacher. There are multiple teachers, and multiple students in each department. A department is identified by a department id, and needs the following information: department name, number of teachers, and the number of students. Each department has a Head, who is also a teacher.

A teacher is identified by a teacher id, name, position, phone number(s). A student can also belong to a department, and has a student id, name, age, date of birth, Sonali bank account number. He will also have a level number, a term number, and an advisor. Note that a student can have only one adviser, however, each teacher can be an adviser to multiple students.

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 System.