



Student Name:

Program: BS(CS),BS(SE) Semester: Spring-2021 Time Allowed: 2 hours

Course:CS203 Database Systems
CS219 Database Systems

NOTE: Attempt all questions.

Roll No:

Examination: Mid Term
Total Marks:50 Weightage: 30

Date: May 25, 2021

Instructor Name: Ms. Safia Fatima

Question No. 2

Attempt Time: 15 min, Submission Time: 5 min

Marks: 10

Read the scenario below.

In a University , there are several departments and each department has a head of department who belongs to Faculty. Department have a name , phone extension , specific mailing address and Students that belong to the department. Students can belong to only one Department at a time and Department can have more than one or no Student

Students and faculty have names and unique identification numbers , with address , age , gender and other information. Student studies different Courses offered by University . Faculty teaches these Courses . In each semester one student can take more than one course and Faculty can teach more than one courses . Faculty members can teach in multiple Departments. Each course can be taught by many faculty members or no one

You have already implemented the normalized relational ERD of the above scenario. In this question your task is to

Write the SQL commands to implement the relational ERD with **proper constraints** where needed. Also write **an explanation for each constraint.**