Assignment 2
COSC 3336
Spring 2022

Using Figure 1 as your guide, work Problems 1–3 The Tiny College relational diagram shows the initial entities and attributes for Tiny College.

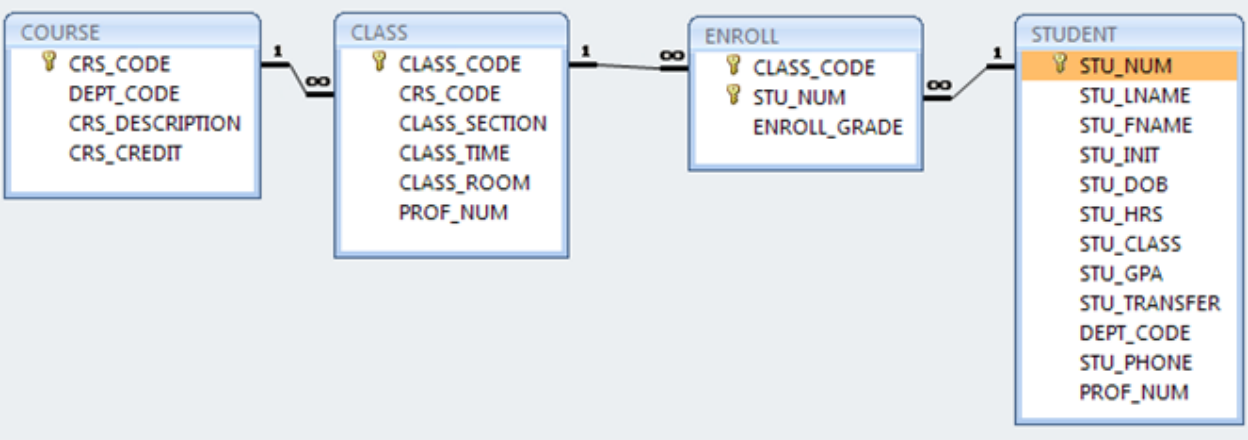

Figure 1.The Tiny College relational diagram

1. Identify each relationship type and write all of the business rules.

Table 1. Sample Contents of an ENROLL Table

STU_NUM	CLASS_CODE	ENROLL_SEMESTER	ENROLL_GRADE
11324	MATH345-04	SPRING-14	NA
11324	ENG322-11	SPRING-14	NA
11892	CHEM218-05	SPRING-14	NA
11892	ENG322-11	SPRING-14	NA
11892	CIS431-01	SPRING-14	NA
10345	ENG322-07	SPRING-14	NA

All of the relationships are 1:M. The relationships may be written as follows:

COURSE generates CLASS. One course can generate many classes. Each class is generated by one course.

CLASS is referenced in ENROLL. One class can be referenced in enrollment many times. Each individual enrollment references one class. Note that the ENROLL entity is also related to STUDENT. Each entry in the ENROLL entity references one student and the class for which that student has enrolled. A student cannot enroll in the same class more than once. If a student enrolls in four classes, that student will appear in the ENROLL entity four times, each time for a different class.

STUDENT is shown in ENROLL. One student can be shown in enrollment many times. (In database design terms, “many” simply means “more than once.”) Each individual enrollment entry shows one student.

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2. Create the basic Crow's Foot ERD for Tiny College.

3. Create the UML class diagram that reflects the entities and relationships you identified in