**CIS 310-50 Fall 2021**

**Assignment #1**

**30 points**

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Use Figure P2.6 on p. 64 to work Problems 6-7. Note that in MS Access the infinity symbol (∞) represents the Many (M) side of the relationship.

Problem 6. Identify each relationship type and write all of the business rules.

The relationship between COURSE and CLASS is one to many where COURSE generates CLASS. This means one course can generate many classes and each class is generated by one course. CLASS also has a one to many relationships where one class can be referenced in enrollment many times. Each individual enrollment references one class. The ENROLL entity also has a one to many relationships where it references one student and the class for which the student has enrolled. A student cannot enroll in the same class more than once. Additionally, STUDENT is shown in ENROLL where one student can be shown in enrollment many times and each individual enrollment entry shows one student.

Problem 7. Create the basic Crow’s Foot ERD for Tiny College. Draw the diagram in the space provided below. Do not have to use Visio yet.

CLASS

COURSE

STUDENT

ENROLL

Problem 14, p. 65. Create a Crow’s Foot ERD to include the following 6 business rules for the ProdCo company. Draw the diagram in the space provided below. Do not have to use Visio yet.

Department

Sales Rep

Customer

Invoice