CS 34800 - PSO Exercise - Week 3

1. Consider the following set of requirements for a UNIVERSITY database, draw an ER diagram for the database.

(a) The university keeps track of each student's name, student ID number (unique), current address, phone number, gender, and major department.

(b) Each department is described by a unique name, rank, and has a location; the location is composed of street name, building number and ZIP code.

(c) Each course has a unique course number, a course name and a set of prerequisites.

(d) There could be multiple sections for a course, distinguished by the section number. Each course section also has a time and location.

(e) A student can be enrolled in multiple course sections (or no sections at all) and a course section can have multiple students enrolled in it (or no students).

(f) A student can major in at most one department, but a department may or not have students majoring in it.

2. Change your design ER diagram to allow each department to have multiple locations.