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Course: CS-434

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Project 1

The University Academic System Application will have data about students, advisors, instructors, courses, sections, grades, and different majors. I would try to find real data to insert to my database. The database will be used to answers following questions:

1. How many students enrolled in a course specific section taught by professor X are undergraduate?
2. How many students get an A in a specific course section taught by professor Y in Fall 2016?
3. What are the average ratings for professor Z for a specific course in Spring 2015?
4. How many students are assigned to advisor X that are from CS and undergrads?

Although, there are many other questions we can ask to this database. The database will have two types of employee: advisors and instructors. Instructors can teach many course sections. A section can be only taught by one professor. Each course can have many sections. Students can enroll in many courses. Students cannot enroll in many sections for a same course. Students have course grade for each enrolled course. Students can choose many majors. A student is assigned to one advisor. An advisor can have many students. Students can rate a professor for a specific course section.

Constraints:

Students must have type (Undergrad or Grad). Students cannot enroll in multiple sections of a same course. Exactly one advisor is assigned to each student. Students cannot enroll in a course that have time conflicts.