

## **COMP 2521**

### **Student registration and tracking system: Tiny College**

The following is a basic description of the activities of Tiny College compiled from interviews with its administrators.

Tiny College (TC) is divided into four schools: a School of Business, a School of Arts and Sciences, a School of Education, and a School of Applied Sciences. Each school is administered by a dean. Assume that even though deans hold professional rank (academic degrees, academic ranks), they are more members of a larger group known as administrators and they do not teach a class.

Each school is composed of several departments. For example, the school of business has an accounting department, an economics/finance department, and a computer information systems department. Each department belongs only to one school.

Each department offers several courses. For example, the computer information systems department offers courses such as Software Development, Building Internet Solutions, Database Management Systems, and so on. There were a few departments in Tiny College that were classified as “Research Only”. Such departments may not offer courses.

Each course has several sections. Therefore, a department may offer several sections of the same database course. Each of those courses is taught by a professor at a given time in a given place. However, a course may exist in Tiny College’s course catalog even when it is not offered as a course in the current class schedule.

Each department has many professors assigned to it. One of those professors chairs the department. Only one of the professors can chair the department to which (s)he is assigned, and no professor is required to accept the chair position.

Each professor may teach up to 4 classes, each one being a section of a course. A professor may also be on a research contract and teach no classes at all.

A student may enroll in several classes, but (s)he takes each class only once during any given enrollment. For example, during the current enrollment period, a student may decide to take five classes – Statistics, Accounting, Astronomy, Database, and Speech – but that student would not be enrolled in the same Statistics class five times during the same enrollment period! Each student may enroll in up to six classes, and each class may have up to 35 students in it. At the start of the enrollment period, a class initially exists even though no students are enrolled in it.

Each student has an advisor in his or her department; each advisor counsels several students. An advisor is also a professor, but not all professors are advisors.

A section of a course is taught in a room. Each room is located in a building. A building can contain several rooms, but each room is found in a single building. The room number is determined by the building name as well as its number. It is also reasonable to assume that some buildings do not contain (class) rooms. For example, a storage building might not contain any named rooms at all.

- **Identify data you care about and group them logically.**