

X402.5 Data Modeling and Database Design

Data Modeling Exercise: Create a conceptual data model that meets the following requirements.

- Store information relating to faculty, students, courses and tutors who deal with these students.
 - Courses may be offered multiple times over time and when there is sufficient demand, multiple times during the same semester.
 - Some students are tutors.
 - Some tutors are students, some are junior faculty members, others are neither.
- Store contact information for the students and the tutors. The contact type can be by direct contact (in-person meeting), email, phone or fax.
- Tutors are assigned to one or more course offerings. Generally, one tutor is assigned per course offering
- Store course enrollments; students may enroll in multiple courses.
- Store a log of contact events when students contact tutors including the contact type used to request the contact and the contact type used to respond. For example, a student might e-mail a tutor, and the tutor may chose to respond by phone or in person. Follow-up contacts should reference the original contact.