## Database Systems: CS 329

## Week 4: Data Modeling

In a **University,** there are several **departments** and each **department** has a head of department who **belongs**to **Faculty**. **Department** have a name, phone extension, specific mailing address and Students that **belong**to the department. **Students** can belong to **only one** **Department** at a time and Department can have more than one or no Student

**Students** and **faculty** have names and unique identification numbers, with address, age, gender and other information. Student **studies**different Courses **offered**by **University**. Faculty **teaches**these ***Courses.*** In each semester one student can take ***more than*** ***one*** course and Faculty can teach **more than one** courses. Faculty members can teach in multiple **Departments**. Each course can be taught by many faculty members or no one

Faculty members are also ***working***on multiple**research projects**. These projects are funded by government and university. One project can have **more than one** faculty member and one faculty member can work on ***more than one*** project