Schema Diagram for University Database

- **student**: ID, name, dept_name, tot_cred
- **course**: course_id, title, dept_name, credits
- **department**: dept_name, building, budget
- **advisor**: s_id, i_id
- **teaches**: ID, course_id, sec_id, semester, year
- **section**: course_id, sec_id, semester, year, grade
- **time_slot**: time_slot_id, day, start_time, end_time
- **classroom**: building, room_no, capacity
- **prereq**: course_id, prereq_id
- **instructor**: ID, name, dept_name, salary

**take**
- ID
- course_id
- sec_id
- semester
- year
- grade

**schema diagram**

- **relationships**
  - Student connects to course via advisor
  - Course connects to department
  - Course connects to section
  - Section connects to classroom
  - Classroom connects to time_slot
  - Time_slot connects to section
  - Section connects to course
  - Course connects to prereq
  - Prereq connects to course
  - Teaches connects to course
  - Course connects to instructor
  - Instructor connects to course

**database concepts**

- **entities**
  - Student
  - Course
  - Department
  - Advisor
  - Classroom
  - Time_slot
  - Section
  - Prereq
  - Instructor

- **attributes**
  - ID
  - Name
  - Dept_name
  - Tot_cred
  - Course_id
  - Title
  - Credits
  - Building
  - Room_no
  - Capacity
  - Time_slot_id
  - Day
  - Start_time
  - End_time
  - Sec_id
  - Semester
  - Year
  - Grade
  - Prereq_id
  - Name
  - Dept_name
  - Salary