Assignment 1:

Design a database for a university system that will manage student and course information.

- **Students**:
  - Each student has a unique student ID, name, email address, and date of birth.
  - Each student can be associated with at most one advisor.
  - Each student can be associated with multiple courses.
- **Advisors**:
  - Each advisor has a unique advisor ID, name, email address, and specialization.
  - An advisor may be assigned to advise multiple students.
- **Courses:**
  - Each course has a unique course code, title, description, and instructor.
  - Each course can have multiple enrolled students.

```
use universitydb;
create table Students(
   student_id int primary key,
   name varchar(30),
   email varchar(200) unique,
   date_of_birth date,
   advisor_id int
);
create table Advisors(
   advisor_id int primary key,
   name varchar(30),
   email varchar(200) unique,
   specialization varchar(50)
);
create table Courses(
   course_code varchar(20) primary key,
   course_title varchar(50),
   description varchar(200),
```

```
    instructor varchar(50)
);

alter table Students add FOREIGN KEY(advisor_id) references Advisors(advisor_id) on delete set
null;

create table Student_course_map(
    student_id INT,
    course_code varchar(20),
    primary key(student_id,course_code),
    FOREIGN KEY(student_id) references Students(student_id) on delete cascade,
    FOREIGN KEY(course_code) references Courses(course_code) on delete cascade
);
```