In-class Exercise 3

Question:

- □ Create three tables using SQL: Students, Courses, and Enrolled. In table definitions, you must enforce the following constraints:
 - Students: sid, sname, major, year_of_study, gpa
 - Courses: cid, cname, enroll_count, lecturer
 - Enrolled: sid, cid, score
 - A student can be enrolled into a course only if he/she exists in Students table.
 - ➤ If a student is removed from Students table, his/her enrollment record(s) should also be deleted from Enrolled table.
 - Only the courses available in Courses table can be enrolled.
 - gpa must be between 0 and 4.
 - score must be between 0 and 100 if not NULL.

Answer:

```
CREATE TABLE Students
                  CHAR(8),
  (sid
  sname
                  CHAR(10),
  major
                  INTEGER,
  year_of_study
                  REAL.
  gpa
  PRIMARY KEY
  CHECK
                                           ));
CREATE TABLE Courses
                  CHAR(8),
  (cid
  cname
  enroll_count
                  INTEGER,
                  CHAR(20),
  lecturer
  PRIMARY KEY
CREATE TABLE Enrolled
  (sid
                  CHAR(8),
  cid
                  CHAR(8),
                  REAL.
  score
  PRIMARY KEY
                        REFERENCES Students
  FOREIGN KEY
                   ON DELETE
                        REFERENCES Courses,
  FOREIGN KEY
  CHECK
```

);