SYAMKRISHNAN S

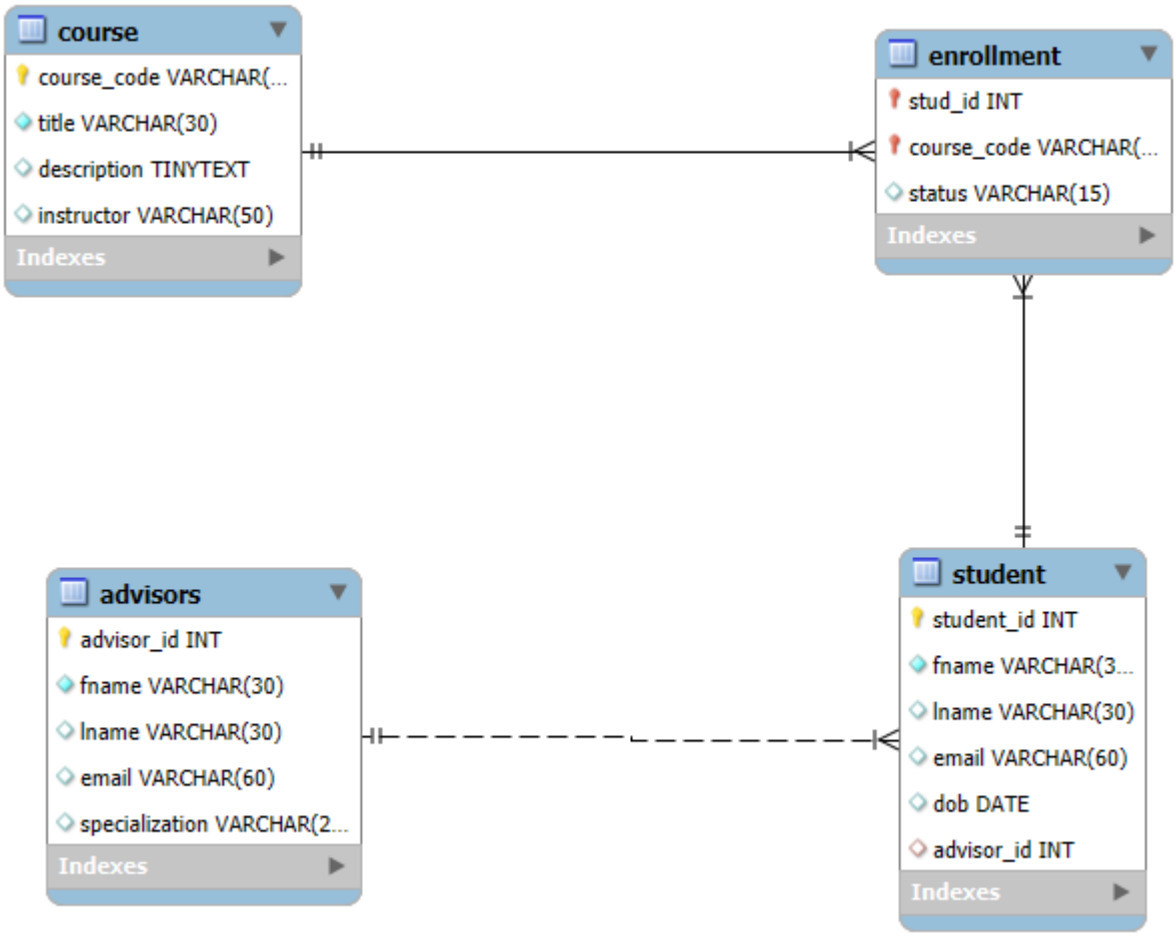
ASSIGNMENT – 1

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.



```
CREATE TABLE student(
    student_id INT PRIMARY KEY,
    fname VARCHAR(30) NOT NULL,
    lname VARCHAR (30),
    email VARCHAR (60),
    dob DATE,
    advisor_id INT
);

CREATE TABLE advisors(
    advisor_id INT PRIMARY KEY,
    fname VARCHAR(30) NOT NULL,
    lname VARCHAR (30),
    email VARCHAR (60),
    specialization VARCHAR(25)
);

ALTER TABLE student
ADD FOREIGN KEY(advisor_id)
REFERENCES advisors(advisor_id)
ON DELETE SET NULL;



CREATE TABLE course(
    course_code VARCHAR(6) PRIMARY KEY,
    title VARCHAR(30) NOT NULL,
    description TINYTEXT,
    instructor VARCHAR(50)
);

CREATE TABLE enrollment(
    stud_id INT,
    course_code VARCHAR(6),
    status VARCHAR(15),
    PRIMARY KEY(stud_id,course_code),
    FOREIGN KEY(stud_id) REFERENCES student(student_id) ON DELETE CASCADE,
    FOREIGN KEY(course_code) REFERENCES course(course_code) ON DELETE CASCADE
);
```