ASSIGNMENT - 1

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

• Students:

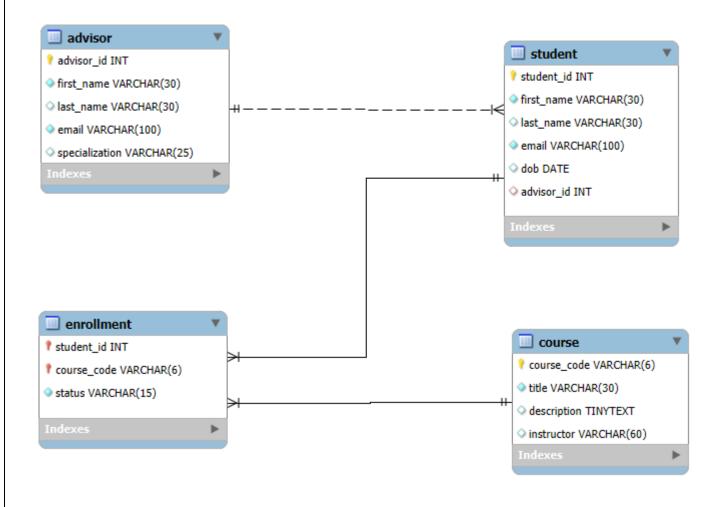
- ☐ Each student has a unique student ID, name, email address, and date of birth.
- ☐ Each student can be associated with at most one advisor.
- ☐ Each student can be associated with multiple courses.

• 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 advisor(
    advisor id INT AUTO INCREMENT PRIMARY KEY,
    first name VARCHAR(30) NOT NULL,
    last name VARCHAR(30),
    email VARCHAR(100) UNIQUE NOT NULL,
    specialization VARCHAR(25)
);
CREATE TABLE student(
    student id INT AUTO INCREMENT PRIMARY KEY,
    first name VARCHAR(30) NOT NULL,
    last name VARCHAR (30),
    email VARCHAR(100) UNIQUE NOT NULL,
    dob DATE,
    advisor id INT,
    FOREIGN KEY(advisor_id) REFERENCES advisor(advisor_id) ON DELETE SET NULL
);
CREATE TABLE course(
    course code VARCHAR(6) PRIMARY KEY,
    title VARCHAR(30) NOT NULL,
    description TINYTEXT,
    instructor VARCHAR(60)
);
CREATE TABLE enrollment(
    student id INT NOT NULL,
    course_code VARCHAR(6) NOT NULL,
    status VARCHAR(15) NOT NULL,
    PRIMARY KEY(student id, course code),
    FOREIGN KEY(student_id) REFERENCES student(student_id) ON DELETE CASCADE,
    FOREIGN KEY(course_code) REFERENCES course(course_code) ON DELETE CASCADE
);
```