CREATE TABLE Student (

StudentID INT PRIMARY KEY, -- Unique identifier for each student

Name VARCHAR(100) NOT NULL, -- Name of the student, cannot be NULL

CourseID INT, -- Foreign key referencing CourseID in the Course table

Age INT, -- Age of the student

Gender VARCHAR(10), -- Gender (e.g., Male, Female, Other)

Email VARCHAR(255), -- Email address of the student

PhoneNumber VARCHAR(15), -- Contact number of the student

EnrollmentDate DATE -- Date when the student was enrolled

);

CREATE TABLE Course (

CourseID INT PRIMARY KEY, -- Unique identifier for each course

CourseName VARCHAR(100) NOT NULL, -- Name of the course, cannot be NULL

CourseDescription VARCHAR(255), -- Brief description of the course

Credits INT, -- Number of credits for the course

InstructorName VARCHAR(100) -- Name of the instructor for the course

);

INSERT INTO Course (CourseID, CourseName, CourseDescription, Credits, InstructorName)

VALUES

(101, 'Mathematics', 'Basic and advanced mathematics', 4, 'Dr. Smith'),

(102, 'Science', 'General science including physics and chemistry', 3, 'Dr. Johnson'),

(103, 'History', 'World history from ancient to modern times', 3, 'Prof. Brown'),

(104, 'Art', 'Introduction to visual arts', 2, 'Ms. Green'),

(105, 'Computer Science', 'Foundations of computer programming and systems', 4, 'Dr. Williams');

INSERT INTO Student (StudentID, Name, CourseID, Age, Gender, Email, PhoneNumber, EnrollmentDate)

VALUES

(1, 'Alice', 101, 20, 'Female', 'alice@example.com', '1234567890', '2024-01-10'),

(2, 'Bob', 102, 22, 'Male', 'bob@example.com', '9876543210', '2024-02-15'),

(3, 'Charlie', NULL, 18, 'Male', 'charlie@example.com', '5554443333', '2024-03-20'),

(4, 'Diana', 103, 25, 'Female', 'diana@example.com', '2223334444', '2024-04-25'),

(5, 'Eve', 101, 30, 'Female', 'eve@example.com', '1112223333', '2024-05-05');