Student Data

**-- Create the StudentData database**

CREATE DATABASE StudentData;

**-- Switch to the StudentData database**

USE StudentData;

**-- Students Table**

CREATE TABLE Students (

StudentID INT PRIMARY KEY,

Name VARCHAR(25),

Address VARCHAR(255),

PhoneNumber VARCHAR(15),

EmailAddress VARCHAR(50),

GradeLevel INT

);

**-- Courses Table**

CREATE TABLE Courses (

CourseCode VARCHAR(10) PRIMARY KEY,

CourseName VARCHAR(255),

Instructor VARCHAR(25),

Credits INT

);

**-- Enrollments Table**

CREATE TABLE Enrollments (

EnrollmentID INT PRIMARY KEY,

StudentID INT,

CourseCode VARCHAR(10),

Semester VARCHAR(20),

FOREIGN KEY (StudentID) REFERENCES Students(StudentID),

FOREIGN KEY (CourseCode) REFERENCES Courses(CourseCode)

);

**-- Grades Table**

CREATE TABLE Grades (

GradeID INT PRIMARY KEY,

StudentID INT,

CourseCode VARCHAR(10),

Semester VARCHAR(20),

Grade VARCHAR(2),

FOREIGN KEY (StudentID) REFERENCES Students(StudentID),

FOREIGN KEY (CourseCode) REFERENCES Courses(CourseCode)

);

**-- Inserting dummy data into Students table**

INSERT INTO Students (StudentID, Name, Address, PhoneNumber, EmailAddress, GradeLevel)

VALUES

(1, 'John Doe', '123 Main St', '555-1234', 'john.doe@example.com', 10),

(2, 'Jane Smith', '456 Oak Ave', '555-5678', 'jane.smith@example.com', 11),

(3, 'Bob Johnson', '789 Pine Blvd', '555-9012', 'bob.johnson@example.com', 12);

**-- Inserting dummy data into Courses table**

INSERT INTO Courses (CourseCode, CourseName, Instructor, Credits)

VALUES

('CSCI101', 'Introduction to Computer Science', 'Dr. Smith', 3),

('MATH201', 'Calculus I', 'Dr. Johnson', 4),

('ENG101', 'English Composition', 'Prof. Brown', 3);

**-- Inserting dummy data into Enrollments table**

INSERT INTO Enrollments (EnrollmentID, StudentID, CourseCode, Semester)

VALUES

(1, 1, 'CSCI101', 'Fall 2023'),

(2, 1, 'MATH201', 'Fall 2023'),

(3, 2, 'ENG101', 'Fall 2023'),

(4, 3, 'CSCI101', 'Fall 2023');

**-- Inserting dummy data into Grades table**

INSERT INTO Grades (GradeID, StudentID, CourseCode, Semester, Grade)

VALUES

(1, 1, 'CSCI101', 'Fall 2023', 'A'),

(2, 1, 'MATH201', 'Fall 2023', 'B+'),

(3, 2, 'ENG101', 'Fall 2023', 'A-'),

(4, 3, 'CSCI101', 'Fall 2023', 'B');