Name: Ashfaaq Feroz Muhammad

Id: 2023ebcs005

Topic: SGA 1- Database Creation and Data Manipulation for an Education System

1:

SQL FILE:

```sql
CREATE TABLE Departments (

    DepartmentID INT PRIMARY KEY,

    DepartmentName VARCHAR(100),

    Location VARCHAR(100)

);


CREATE TABLE Students (

    StudentID INT PRIMARY KEY,

    Name VARCHAR(100),

    Email VARCHAR(100) UNIQUE,

    DateOfBirth DATE,

    DepartmentID INT,

    FOREIGN KEY (DepartmentID) REFERENCES Departments(DepartmentID)

);


CREATE TABLE Instructors (

    InstructorID INT PRIMARY KEY,

    Name VARCHAR(100),
```

```sql
    Email VARCHAR(100) UNIQUE,

    DepartmentID INT,

    FOREIGN KEY (DepartmentID) REFERENCES Departments(DepartmentID)
);


CREATE TABLE Courses (

    CourseID INT PRIMARY KEY,

    CourseName VARCHAR(100),

    Credits INT,

    DepartmentID INT,

    InstructorID INT,

    FOREIGN KEY (DepartmentID) REFERENCES Departments(DepartmentID),

    FOREIGN KEY (InstructorID) REFERENCES Instructors(InstructorID)
);


CREATE TABLE Enrollments (

    EnrollmentID INT PRIMARY KEY,

    StudentID INT,

    CourseID INT,

    EnrollmentDate DATE,

    FOREIGN KEY (StudentID) REFERENCES Students(StudentID),

    FOREIGN KEY (CourseID) REFERENCES Courses(CourseID)
);
```

```sql
CREATE TABLE Departments (
DepartmentID INT PRIMARY KEY,
DepartmentName VARCHAR(100),
Location VARCHAR(100)
);
```

```sql
CREATE TABLE Students (
StudentID INT PRIMARY KEY,
Name VARCHAR(100),
Email VARCHAR(100) UNIQUE,
DateOfBirth DATE,
DepartmentID INT,
FOREIGN KEY (DepartmentID) REFERENCES Departments(DepartmentID)
);
```

```sql
CREATE TABLE Instructors (
InstructorID INT PRIMARY KEY,
Name VARCHAR(100),
Email VARCHAR(100) UNIQUE,
DepartmentID INT,
FOREIGN KEY (DepartmentID) REFERENCES Departments(DepartmentID)
);
```

```sql
CREATE TABLE Courses (
CourseID INT PRIMARY KEY,
CourseName VARCHAR(100),
Credits INT,
DepartmentID INT,
InstructorID INT,
FOREIGN KEY (DepartmentID) REFERENCES Departments(DepartmentID),
FOREIGN KEY (InstructorID) REFERENCES Instructors(InstructorID)
);
```

```sql
 CREATE TABLE Enrollments (
EnrollmentID INT PRIMARY KEY,
StudentID INT,
CourseID INT,
EnrollmentDate DATE,
FOREIGN KEY (StudentID) REFERENCES Students(StudentID),
FOREIGN KEY (CourseID) REFERENCES Courses(CourseID)
);
```