

## **Normalization Practical**

```
CREATE TABLE Students (  
    StudentID INT PRIMARY KEY,  
    StudentName VARCHAR(255)  
);
```

```
CREATE TABLE Courses (  
    CourseID INT PRIMARY KEY,  
    CourseName VARCHAR(255),  
    Instructor VARCHAR(255)  
);
```

```
CREATE TABLE Enrollments (  
    StudentID INT,  
    CourseID INT,  
    Grade CHAR(1),  
    PRIMARY KEY (StudentID, CourseID),  
    FOREIGN KEY (StudentID) REFERENCES Students(StudentID),  
    FOREIGN KEY (CourseID) REFERENCES Courses(CourseID)
```

```
);
```

```
-- Students Table
```

```
INSERT INTO Students (StudentID, StudentName) VALUES
```

```
(1, 'Alice'),
```

```
(2, 'Bob'),
```

```
(3, 'Charlie');
```

```
-- Courses Table
```

```
INSERT INTO Courses (CourseID, CourseName, Instructor)  
VALUES
```

```
(1, 'Math', 'Prof. A'),
```

```
(2, 'Physics', 'Prof. B'),
```

```
(3, 'Chemistry', 'Prof. C');
```

```
-- Enrollments Table
```

```
INSERT INTO Enrollments (StudentID, CourseID, Grade) VALUES
```

```
(1, 1, 'A'),
```

```
(1, 2, 'B'),
```

```
(2, 3, 'A'),
```

(2, 1, 'B'),

(3, 2, 'C');