```
Normalization
CREATE DATABASE b;
USE b;
CREATE TABLE UnnormalizedTable (
  StudentID INT,
  StudentName VARCHAR(100),
  Courses VARCHAR(255),
  InstructorNames VARCHAR(255)
);
INSERT INTO UnnormalizedTable (StudentID, StudentName, Courses, InstructorNames)
VALUES
(101, 'Alice', 'Math, Physics', 'Smith, Johnson'),
(102, 'Bob', 'Chemistry', 'Davis'),
(103, 'Charlie', 'Physics, Math', 'Johnson, Smith');
CREATE TABLE StudentCourses (
  StudentID INT,
  StudentName VARCHAR(100),
  Course VARCHAR(100),
  Instructor VARCHAR(100)
);
INSERT INTO StudentCourses (StudentID, StudentName, Course, Instructor)
VALUES
```

(101, 'Alice', 'Math', 'Smith'),

(101, 'Alice', 'Physics', 'Johnson'),

(102, 'Bob', 'Chemistry', 'Davis'),

```
(103, 'Charlie', 'Physics', 'Johnson'),
(103, 'Charlie', 'Math', 'Smith');
CREATE TABLE Students (
  StudentID INT PRIMARY KEY,
  StudentName VARCHAR(100)
);
INSERT INTO Students (StudentID, StudentName)
VALUES
(101, 'Alice'),
(102, 'Bob'),
(103, 'Charlie');
CREATE TABLE Enrollments (
  StudentID INT,
  Course VARCHAR(100),
  Instructor VARCHAR(100),
  PRIMARY KEY (StudentID, Course),
  FOREIGN KEY (StudentID) REFERENCES Students(StudentID)
);
INSERT INTO Enrollments (StudentID, Course, Instructor)
VALUES
(101, 'Math', 'Smith'),
(101, 'Physics', 'Johnson'),
(102, 'Chemistry', 'Davis'),
(103, 'Physics', 'Johnson'),
(103, 'Math', 'Smith');
```

```
CREATE TABLE Courses (
  Course VARCHAR(100) PRIMARY KEY,
  Instructor VARCHAR(100)
);
INSERT INTO Courses (Course, Instructor)
VALUES
('Math', 'Smith'),
('Physics', 'Johnson'),
('Chemistry', 'Davis');
CREATE TABLE Enrollments12(
  StudentID INT,
  Course VARCHAR(100),
  PRIMARY KEY (StudentID, Course),
  FOREIGN KEY (Course) REFERENCES Courses(Course)
);
INSERT INTO Enrollments12 (StudentID, Course)
VALUES
(101, 'Math'),
(101, 'Physics'),
(102, 'Chemistry'),
(103, 'Physics'),
(103, 'Math');
```