SQL - ALTER

-- Create a Database -

CREATE DATABASE school_db;

-- Use Database -

use school_db;

-- Create a table Students -

```
CREATE TABLE Students (
    StudentID INT PRIMARY KEY AUTO_INCREMENT,
    StudentName NVARCHAR(50) NOT NULL,
    Email NVARCHAR(50) NOT NULL,
    Age INT NOT NULL
);
```

-- Create a table Courses -

```
CREATE TABLE Courses (
    CourseID INT PRIMARY KEY AUTO_INCREMENT,
    CourseName NVARCHAR(50) NOT NULL,
    Credits INT NOT NULL,
    StudentID INT,
    foreign key (StudentID) references Students(StudentID)
    );
```

-- Insert Records into Students Table -

```
INSERT INTO Students (StudentName, Email, Age) VALUES
('Alice Johnson', 'alice.johnson@example.com', 20),
('Bob Smith', 'bob.smith@example.com', 22),
```

```sql
('Charlie Brown', 'charlie.brown@example.com', 21),

('Diana Prince', 'diana.prince@example.com', 23),

('Eve Adams', 'eve.adams@example.com', 20);
```

-- Insert Records into Courses Table

```sql
INSERT INTO Courses (CourseName, Credits, StudentID) VALUES

('Database Systems', 3, 1),

('Computer Networks', 4, 2),

('Operating Systems', 3, 3),

('Data Structures', 4, 4),

('Software Engineering', 3, 5);
```

-- ALTER Course table to ADD Semester column

```sql
ALTER TABLE Courses

ADD Semester NVARCHAR(10);
```

-- ALTER Course table to DROP Semester column

```sql
ALTER TABLE Courses

DROP Semester
```

-- ALTER Students table to MODIFY Age column

```sql
ALTER TABLE  Students

MODIFY Age INT NOT NULL DEFAULT 18;
```

-- Drop Course Table

```sql
DROP TABLE Courses
```

-- Drop Students Table

```sql
DROP TABLE Students
```

-- Drop Database

DROP DATABASE school_db