

Queries to Create all tables: // We should not need to use these queries again

```
CREATE TABLE Student(  
    StudentID int NOT NULL,  
    SFirstName varchar(50) NOT NULL,  
    SLastName varchar(50) NOT NULL,  
    SMajor varchar(50) NOT NULL,  
    SEmail varchar(50) NOT NULL,  
    SPhone bigint NOT NULL,  
    StudentGPA decimal(3,2),  
    PRIMARY KEY (StudentID)  
);
```

```
CREATE TABLE Professor(  
    ProfessorID int NOT NULL,  
    SFirstName varchar(50) NOT NULL,  
    SLastName varchar(50) NOT NULL,  
    SEmail varchar(50) NOT NULL,  
    SPhone bigint NOT NULL,  
    PRIMARY KEY (ProfessorID)  
);
```

```
CREATE TABLE Course(  
    CourseID int NOT NULL,  
    CName varchar(50) NOT NULL,  
    StudentID int NOT NULL,  
    CONSTRAINT FK_StudentID_Course FOREIGN KEY (StudentID)  
    REFERENCES Student(StudentID),  
    ProfessorID int NOT NULL,  
    CONSTRAINT FK_ProfessorID_Course FOREIGN KEY (ProfessorID)  
    REFERENCES Professor(ProfessorID),  
    PRIMARY KEY (CourseID)  
);
```

```
CREATE TABLE Grade(  
    GName varchar(1),  
    StudentID int NOT NULL,  
    CONSTRAINT FK_StudentID_Grade FOREIGN KEY (StudentID)  
    REFERENCES Student(StudentID),  
    CourseID int NOT NULL,  
    CONSTRAINT FK_CourseID_Grade FOREIGN KEY (CourseID)  
    REFERENCES Course(CourseID),  
    PRIMARY KEY (GName)  
);
```

```
CREATE TABLE Address(  
    StudentID int NOT NULL,  
    CONSTRAINT FK_StudentID_Address FOREIGN KEY (StudentID)  
    REFERENCES Student(StudentID),  
    ProfessorID int NOT NULL,  
    CONSTRAINT FK_ProfessorID_Address FOREIGN KEY (ProfessorID)  
    REFERENCES Professor(ProfessorID),  
    StreetNumber int NOT NULL,  
    Street varchar(50) NOT NULL,  
    City varchar(50) NOT NULL,  
    State varchar(50) NOT NULL,  
    Zipcode int NOT NULL  
);
```

Inserting Values into the Student table:

```
INSERT INTO Student  
VALUES (intvalue, 'Test First Name', 'Test Last Name', 'Test Major', 'Test Email', 9041234567,  
4.00);
```

Inserting Values into the Professor table:

```
INSERT INTO Professor  
VALUES (intvalue, 'Test First Name', 'Test Last Name', 'Test Email', 9041234567);
```

Inserting Values into the Course table:

```
INSERT INTO Course(CourseID, CName, StudentID, ProfessorID)  
VALUES (intvalue, 'Course Name', 'intvalue', 'intvalue');
```

Inserting Values into the Grade table:

```
INSERT INTO Course( CName, StudentID, CourseID)  
VALUES (intvalue, 'Course Name', 'intvalue', 'intvalue');
```

Inserting Values into the Address table given StudentID:

```
INSERT INTO Address  
VALUES (intvalue, null, 54321, 'Test Street', 'Test City', 'Test State', 654321);
```

Inserting Values into the Address table given ProfessorID:

```
INSERT INTO Address  
VALUES (null, intvalue, 54321, 'Test Street', 'Test City', 'Test State', 654321);
```

Inserting Values into the Address table given StudentID and ProfessorID:

```
INSERT INTO Course(CourseID, CName, StudentID, ProfessorID)  
VALUES (82574, 'Information processing: An Organizational Perspective', 01, 01);
```

Updating Values of a Student in the Student Table given the StudentID:

```
UPDATE Student
SET SFirstName = 'Jessica', SLastName = 'Morgan'
WHERE StudentID = 2;
```

Join Student and Address Table = Shows First/Lastname of Student + Address:

```
SELECT Student.SFirstName, Student.SLastName, StreetNumber, Street, City, State, Zipcode
FROM
    Address
    RIGHT JOIN
    Student ON Address.StudentID=Student.StudentID
```