

USE BUDT703_Project_0506_09

--SQL create tables

```
CREATE TABLE [UMD.Student] (  
    stuID CHAR(10) NOT NULL,  
    stuFullName VARCHAR (30) NOT NULL,  
    stuDateOfBirth DATE,  
    stuAddress VARCHAR(50),  
    stuCity VARCHAR(25),  
    stuState CHAR(2),  
    stuZipCode CHAR(5),  
    stuMajor VARCHAR(25),  
    stuDegree VARCHAR(25)  
    CONSTRAINT pk_Student_stuID PRIMARY KEY (stuID) )
```

```
CREATE TABLE [UMD.Instructor] (  
    insID CHAR(7) NOT NULL,  
    insFullName VARCHAR (20),  
    insAddress VARCHAR(180),  
    insPhone CHAR(10)  
    CONSTRAINT pk_Instructor_insID PRIMARY KEY (insID) )
```

```
CREATE TABLE [UMD.Course] (  
    crsID CHAR(7) NOT NULL,  
    crsName VARCHAR (30),  
    crsType VARCHAR(100),  
    crsCredits INTEGER  
    CONSTRAINT pk_Course_crsID PRIMARY KEY (crsID) )
```

```
CREATE TABLE [UMD.Department] (  
    dptID CHAR(4) NOT NULL,  
    dptName VARCHAR (50),  
    dptPhone CHAR(10)  
    CONSTRAINT pk_Department_dptID PRIMARY KEY (dptID) )
```

```
CREATE TABLE [UMD.Teach] (  
    stuID CHAR(10) NOT NULL,  
    insID CHAR(7) NOT NULL,  
    CONSTRAINT pk_Teach_stuID_insID PRIMARY KEY (stuID, insID),  
    CONSTRAINT fk_Teach_stuID FOREIGN KEY (stuID)  
        REFERENCES [UMD.Student] (stuID)  
        ON DELETE CASCADE ON UPDATE CASCADE,  
    CONSTRAINT fk_Teach_insID FOREIGN KEY (insID)  
        REFERENCES [UMD.Instructor] (insID)  
        ON DELETE CASCADE ON UPDATE CASCADE)
```

```
CREATE TABLE [UMD.Enroll] (  
    stuID CHAR(10) NOT NULL,  
    insID CHAR(7) NOT NULL,  
    crsID CHAR(7) NOT NULL,  
    enrGrade DECIMAL(3,2),  
    enrDate DATE,  
    CONSTRAINT pk_Enroll_stuID_insID_crsID PRIMARY KEY (stuID, insID, crsID),  
    CONSTRAINT fk_Enroll_stuID FOREIGN KEY (stuID)  
        REFERENCES [UMD.Student] (stuID)  
        ON DELETE CASCADE ON UPDATE CASCADE,  
    CONSTRAINT fk_Enroll_insID FOREIGN KEY (insID)  
        REFERENCES [UMD.Instructor] (insID)  
        ON DELETE CASCADE ON UPDATE CASCADE,
```

```
CONSTRAINT fk_Enroll_crsID FOREIGN KEY (crsID)
REFERENCES [UMD.Course] (crsID)
ON DELETE CASCADE ON UPDATE CASCADE)
```

```
CREATE TABLE [UMD.Work] (
    insID CHAR(7) NOT NULL,
    dptID CHAR(4) NOT NULL,
    hireDate Date,
    CONSTRAINT pk_Work_insID_dptID PRIMARY KEY (insID, dptID),
    CONSTRAINT fk_Work_insID FOREIGN KEY (insID)
        REFERENCES [UMD.Instructor] (insID)
        ON DELETE CASCADE ON UPDATE CASCADE,
    CONSTRAINT fk_Work_dptID FOREIGN KEY (dptID)
        REFERENCES [UMD.Department] (dptID)
        ON DELETE CASCADE ON UPDATE CASCADE)
```