**#2 Relational Schema from ER diagram:**

**Student** (Netid, First Name, Last Name, Major, Status, Netid(fk))

**Course** (Courseid, Course Name, Department, Semester, Year, Netid(fk), Netid(fk))

**Professor** (Netid, FirstName, LastName, Rank, Department, Code(fk))

**Department** (Code, Name, Chairman)

**Enroll** (Netid(fk), Course id(fk))

**Teach** (Netid(fk), Courseid(fk))

**Advise** (StudentNetid(fk), ProfessorNetid(fk))

**Chairman** (Code(fk), Netid(fk))

**#3 SQL Code:**

CREATE TABLE Department

(

Code INT NOT NULL,

Name VARCHAR NOT NULL,

Chairman VARCHAR NOT NULL,

PRIMARY KEY (Code)

);

CREATE TABLE Professor

(

Netid INT NOT NULL,

First\_Name VARCHAR NOT NULL,

Last\_Name VARCHAR NOT NULL,

Rank VARCHAR NOT NULL,

Department VARCHAR NOT NULL,

Code INT NOT NULL,

PRIMARY KEY (Netid),

FOREIGN KEY (Code) REFERENCES Department (Code)

);

CREATE TABLE Student

(

First\_Name VARCHAR NOT NULL,

Last\_Name VARCHAR NOT NULL,

Netid INT NOT NULL,

Major VARCHAR NOT NULL,

Status (Undergraduate/Graduate) VARCHAR NOT NULL,

New\_Column INT NOT NULL,

Netid INT NOT NULL,

PRIMARY KEY (Netid),

FOREIGN KEY (Netid) REFERENCES Professor (Netid)

);

CREATE TABLE Course

(

CourseID INT NOT NULL,

Course\_Name VARCHAR NOT NULL,

Year INT NOT NULL,

Semester VARCHAR NOT NULL,

Department VARCHAR NOT NULL,

Netid INT NOT NULL,

Netid INT NOT NULL,

PRIMARY KEY (CourseID),

FOREIGN KEY (Netid) REFERENCES Student (Netid),

FOREIGN KEY (Netid) REFERENCES Professor (Netid)

);