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CS3550

A4 Q2

use master;

drop database if exists student\_assignments

create database student\_assignments

go

use student\_assignments;

create table student

(

studentID varchar(10) not null,

fname varchar(25) not null,

lname varchar(25) not null,

email varchar(50),

dept\_no varchar(4)

constraint dept\_names check (dept\_no in ('CS','EE','PH','LIT', 'ENG', 'MATH'))

constraint unique\_email unique (email),

constraint prim\_studentID primary key (studentID)

);

create table assignment

(

assignment\_id varchar(10) not null,

name varchar(20) default 'CS 3550 Assignment',

description varchar(50) not null,

due\_date date not null,

max\_possible\_grade float,

submission\_type varchar(30),

constraint submission\_names check (submission\_type in ('Text Entry', 'Media Recording', 'File Upload', 'Website URL')),

constraint max\_grade check (max\_possible\_grade <= 200),

constraint min\_grade check (max\_possible\_grade >= 0),

constraint prim\_assignmentID primary key (assignment\_id)

);

create table studentassignment

(

assignment\_id varchar(10) not null,

studentID varchar(10) not null,

submission\_date date,

grade float,

constraint max\_sagrade check (grade <= 200),

constraint min\_sagrade check (grade >= 0),

constraint comp\_key primary key (assignment\_id, studentID),

constraint foreign1\_sa foreign key(assignment\_id) references assignment(assignment\_id),

constraint foreign2\_sa foreign key(studentID) references student(studentID)

);

For foreign key delete/update I chose cascade for both in student assignment. It made sense that if a student or assignment was deleted, the reference in the associative table isn’t need any more, and if either student or assignment is updated, the associated table gets updated with it.



