Catherine Nguyen
10/05/2020
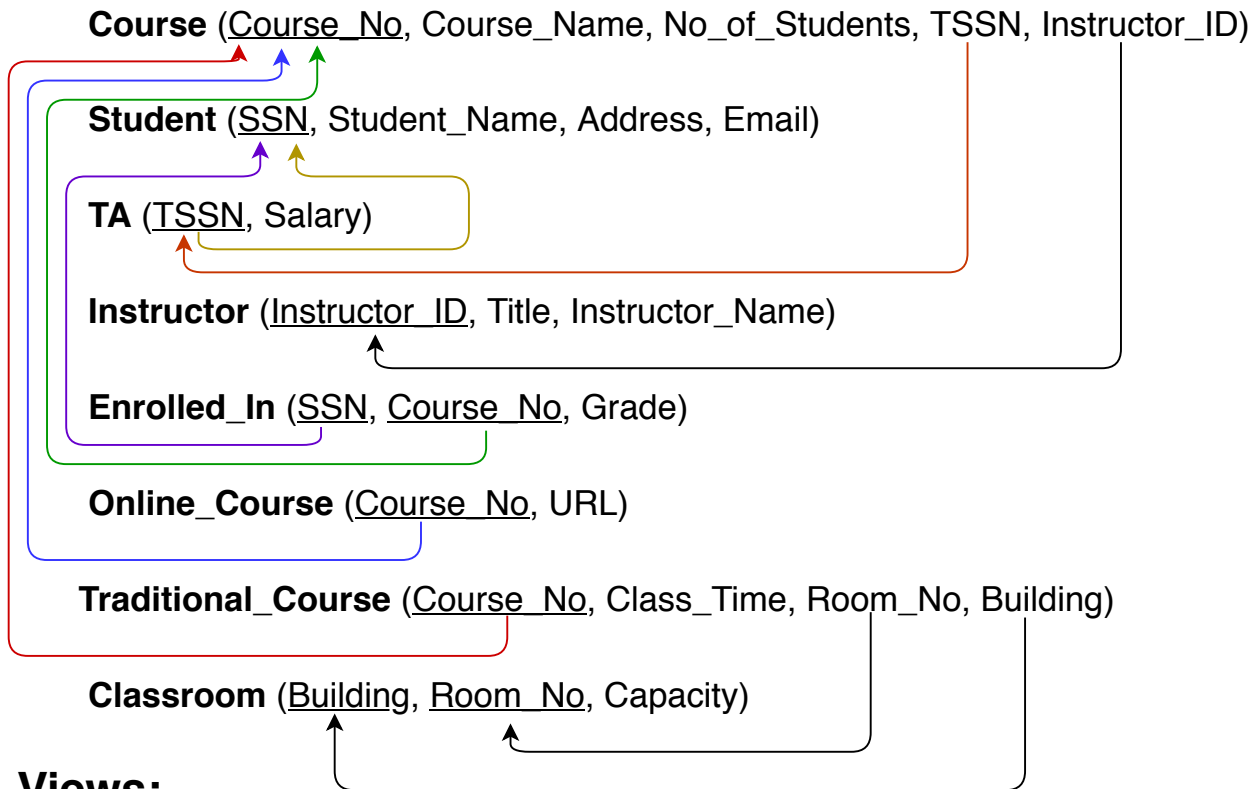Ying, Jin
Updated: 10/07/2020

Homework Assignment 2
Total: 100 points

Map the given EER into the relational model. Three are three options for mapping a specialization. Please use the option of "Create a table for each class (both superclass and subclass)". Please include all the relations and views (if there is any).

Map:

Course (<u>Course_No</u>, Course_Name, No_of_Students, TSSN, Instructor_ID)

Student (<u>SSN</u>, Student_Name, Address, Email)

TA (<u>TSSN</u>, Salary)

Instructor (<u>Instructor_ID</u>, Title, Instructor_Name)

Enrolled_In (<u>SSN</u>, <u>Course_No</u>, Grade)

Online_Course (<u>Course_No</u>, URL)

Traditional_Course (<u>Course_No</u>, Class_Time, Room_No, Building)

Classroom (<u>Building</u>, <u>Room_No</u>, Capacity)

Views:

Create view Online_Course_view as
        Select c.course_no, c.course_name, c.no_of_students, c.tssn, c.instructor_id, o.url
        From Course as c, Online_Course as o
        Where c.course_no = o.course_no;

Create view Traditional_Course_view as
        Select c.course_no, c.course_name, c.no_of_students, c.tssn, c.instructor_id, t.class_time, t.room_no, t.building
        From Course as c, Traditional_Course as t
        Where c.course_no = t.course_no;

Create view TA_view as
        Select s.ssn, s.name, s.address, s.email, a.salary
        From Student as s, TA as a
        Where s.ssn = a.ssn;