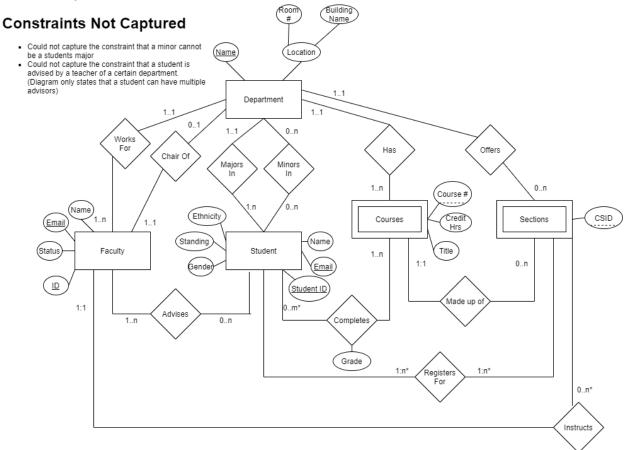
Julian Garcia Hw7: Part 1

I certify that every answer in this assignment is the result of my own work and I have not shared my answers or attempts at answers with anyone else.

-Julian Garcia

1.1: ER Diagram



1.2 Conversion to Relational Schema:

Department(name, location)

Dept_Location(<u>room#, building_name</u>, Dept_Name)

FK: Dept_name refers to Department.name

Faculty(Email, ID, name, Status)

Student(Ethnicity, Standing, Gender, Name, Email, ID)

 $Courses(\underline{C_Num}, \underline{Dept_Name}, Cr_Hours, Title)$

FK: Dept_Name refers to Department.name IC: Department.name < Courses.Dept_name

Sections(<u>CSID</u>, <u>Dept_Name</u>, Course#, F_name)

FK: Dept Name refers to Department.name

FK: Course# refers to Courses.Course#

FK: F name refers to Faculty.name

Advises(F Email, F ID, S ID, S Email)

FK: F Email refers to Faculty.Email

FK: F ID refers to Faculty.ID

FK: S ID refers to Student.ID

IC: Student.(ID, Email) < Advises.(S ID, S Email)

Works For(F Email, F ID, Dept Name)

FK: F Email refers to Faculty.Email

FK: F ID refers to Faculty.ID

FK: Dept_Name refers to Department.Name

IC: Department.name < Works_For.Dept_name

Register(S ID, S Email, CSID, Dept Name)

FK: S Email refers to Student.Email

FK: S ID refers to Student.ID

FK: CSID refers to Sections.CSID

FK: Dept Name refers to Department.Name

IC: Student.(ID, Email) < Register.(S ID, S Email)

IC: Sections.CSID < Register.CSID

IC: Department.name < Register.Dept Name

Completes(S ID, S Email, C num, Dept Name, Grade)

FK: S Email refers to Student.Email

FK: S ID refers to Student.ID

FK: Dept Name refers to Department.Name

IC: Student.(ID, Email) < Completes.(S ID, S Email)

Minor or Major(S Email, S ID, Dept Name)

FK: S Email refers to Student.Email

FK: S ID refers to Student.ID

FK: Dept Name refers to Department.Name

Julian Garcia Hw7: Part 1