5- Write RA statement to List Classes based on (StudentName) in each faculty of Science and Engineering

Engineering:

Π CourseName ( σ (Engineering\_Enrolled.StudentNo = Engineering\_Student.StudentNo) AND (Engineering\_Course.CourseNo = Engineering\_Enrolled.CourseNo) (Engineering\_Course ⨝ Engineering\_Enrolled ⨝ Engineering\_Student))

Science:

Π CourseName ( σ (Science\_Enrolled.StudentNo = Science\_Student.StudentNo) AND (Science\_Course.CourseNo = Science\_Enrolled.CourseNo) (Science\_Course ⨝ Science\_Enrolled ⨝ Science\_Student))

6- Write RA statement to List all student names in two faculties with GPA ≥ 4

Π StudentName ( σ (Engineering\_Student.GPA >= 4 ) OR (Science\_Student.GPA >= 4) (Central\_Student))

7- Write RA statement to List for each course, the average GPA for students registered in that course

Π CourseNo, AVG(GPA) ( σ (Central\_Enrolled.StudentNo = Central\_Student.StudentNo) (Central\_Enrolled ⨝ Central\_Student))

8- Write RA statement to List the Names of the professors who currently teach a course that they said they couldn’t teach that course

Π ProfName ( σ Engineering\_Teaches.ProfName = Engineering\_Professor.ProfName) (Engineering\_Teaches ⨝ Engineering\_Professor) - ( σ Engineering\_Can\_Teach.ProfName = Engineering\_Professor.ProfName) (Engineering\_Can\_Teach ⨝ Engineering\_Professor)

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Π ProfName ( σ Science\_Teaches.ProfName = Science\_Professor.ProfName) (Science\_Teaches ⨝ Science\_Professor) - ( σ Science\_Can\_Teach.ProfName = Science\_Professor.ProfName) (Science\_Can\_Teach ⨝ Science\_Professor)

9- Write RA statement to List all professors and their office locations that can teach both science and engineering courses

Π ProfName, EngOffice, SciOffice ( σ Engineering\_Can\_Teach.ProfName = Science\_Can\_Teach.ProfName) (Engineering\_Can\_Teach ⨝ Science\_Can\_Teach) AND ( σ Engineering\_Professor.ProfName = Science\_Professor.ProfName) (Engineering\_Professor ⨝ Science\_Professor)

10-Write RA statement to List all Courses in both Science and Engineering faculties which worth 1 credit

Π CourseName, CourseNo ( σ (Science\_Course.Credits = 1)) (Science\_Course)

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Π CourseName, CourseNo ( σ (Engineering\_Course.Credits = 1)) (Engineering\_Course)