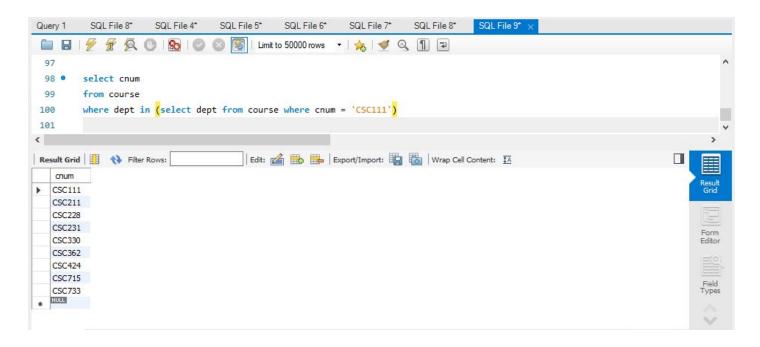
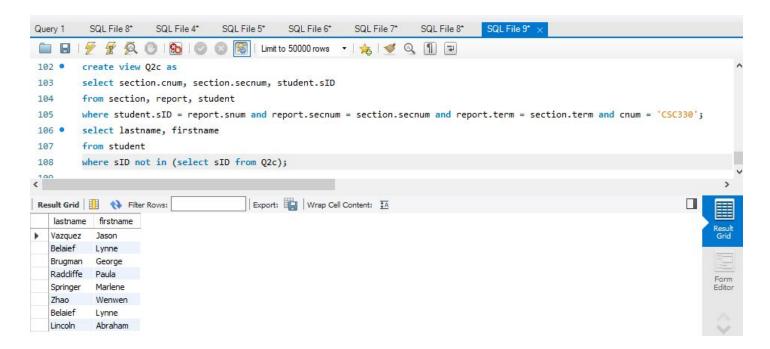
## Problem Set 4 Kap676

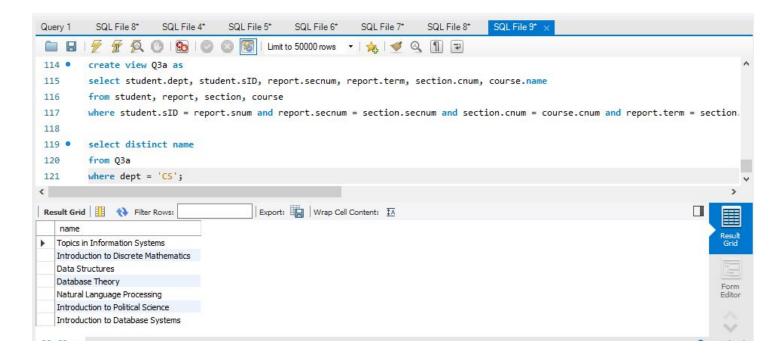
Q1: Find course numbers for courses offered by the same department as CSC111



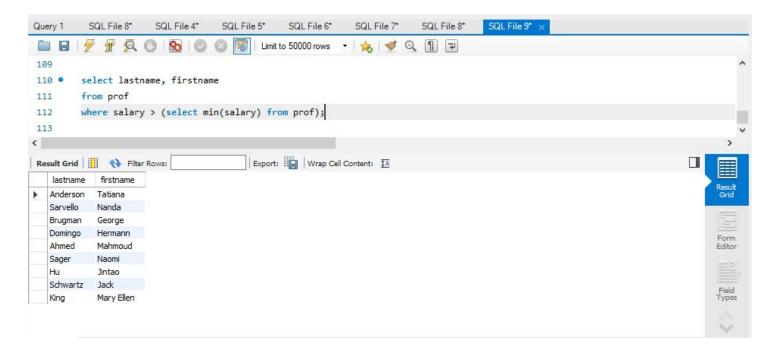
Q2: Find the names of all students who have not taken CSC330



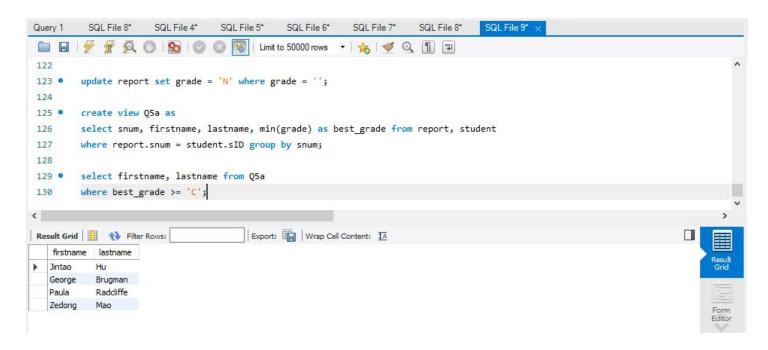
Q3: Find the names of all courses taken by at least one student in the CS dept



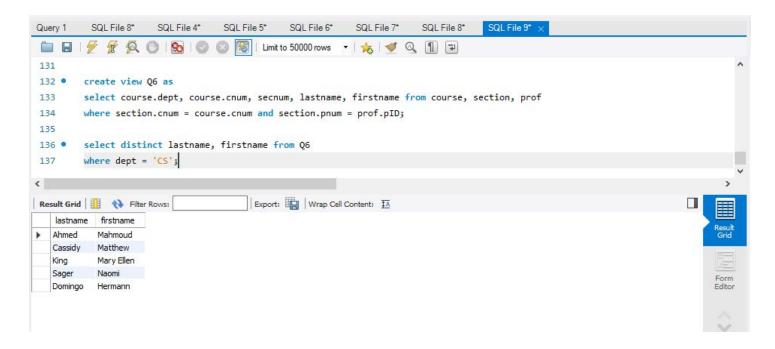
Q4:Find the names of all professors whose salary is more than the minumum



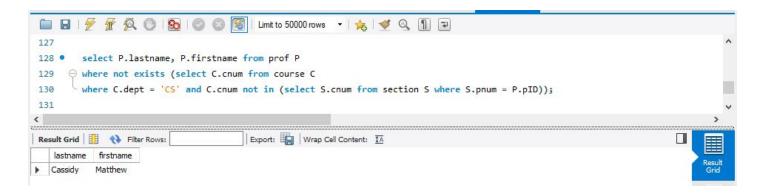
Q5: Find the names of all students who never got a better grade than 'C'



Q6: Find the names of all professors who have taught a CS course (i.e. at least one)



Q7: Find the names of all professors who have taught every CS course



Q8: Find all students who took two courses in the same department and got a better grade in the higher level course

```
132 •
        create view Q8c as
        select snum, dept, count(*) as stud dept_course_cnt, min(level) as min_level, max(level) as max_level
133
134
        from report, section, course
        where report.secnum = section.secnum and report.term = section.term and section.cnum = course.cnum
135
        group by snum, dept;
136
137 •
        select * from Q8c;
138
139 •
        create view Q8d as
140
        select snum, dept, min level, max level
141
        where stud_dept_course_cnt >= 2 and max_level != min_level;
143
         create view Q8e as
145
         select report.snum, course.dept, course.level, report.grade
146
         from report, section, course, Q8d
         where Q8d.snum = report.snum and Q8d.dept = course.dept and report.secnum = section.secnum and report.term = section.term and
147
148
149 •
        create view Q8f as
         select t1.snum, t1.dept, t1.level as min_level, t1.grade as minl_grade, t2.level as max_level, t2.grade as maxl_grade
150
151
         from Q8e t1, Q8e t2
         where t1.snum = t2.snum and t1.dept = t2.dept and t1.level < t2.level;
152
        select distinct firstname, lastname from student, Q8f
154 ●
155
         where Q8f.minl_grade > Q8f.maxl_grade and Q8f.snum = student.sID;
Export: Wrap Cell Content: IA
   firstname lastname
   Mahmoud
           Ahmed
   Giuseppi
           Verdi
   Jintao
```