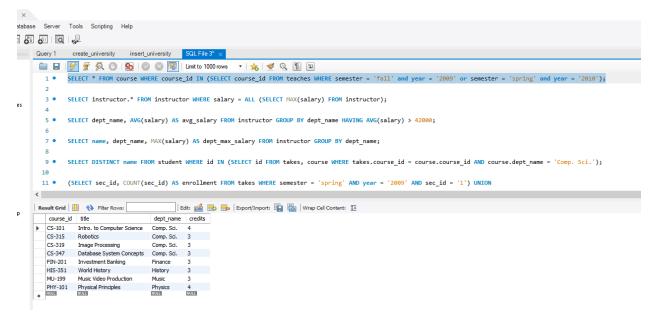
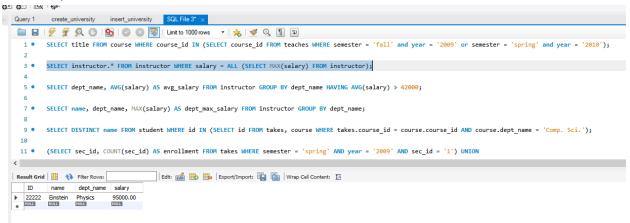
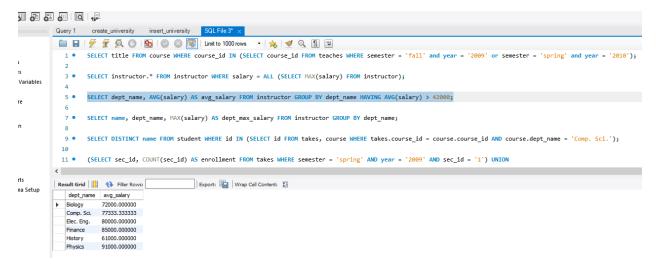
A) SELECT * FROM course WHERE course_id IN (SELECT course_id FROM teaches WHERE semester = 'fall' and year = '2009' or semester = 'spring' and year = '2010');



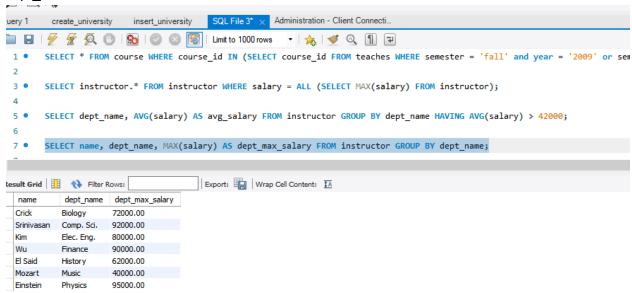
B) SELECT instructor.* FROM instructor WHERE salary = ALL (SELECT MAX(salary) FROM instructor);



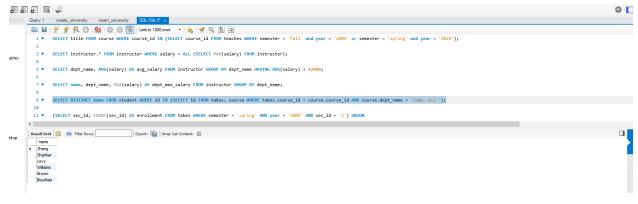
C) SELECT dept_name, AVG(salary) AS avg_salary FROM instructor GROUP BY dept_name HAVING AVG(salary) > 42000;



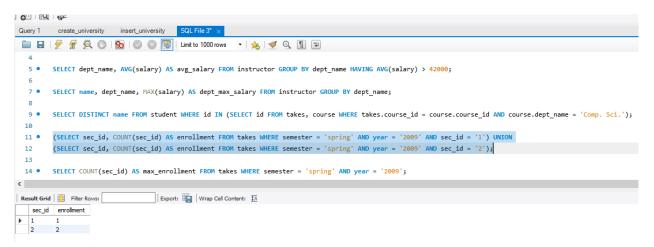
D) SELECT name, dept_name, MAX(salary) AS dept_max_salary FROM instructor GROUP BY dept_name;



E) SELECT DISTINCT name FROM student WHERE id IN (SELECT id FROM takes, course WHERE takes.course_id = course.course_id AND course.dept_name = 'Comp. Sci.');

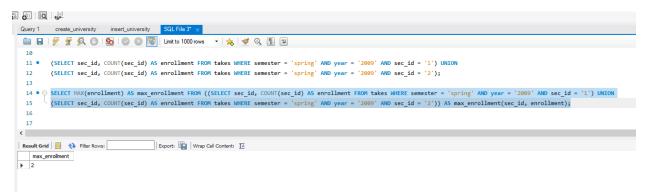


F) (SELECT sec_id, COUNT(sec_id) AS enrollment FROM takes WHERE semester = 'spring' AND year = '2009' AND sec_id = '1') UNION (SELECT sec_id, COUNT(sec_id) AS enrollment FROM takes WHERE semester = 'spring' AND year = '2009' AND sec_id = '2');

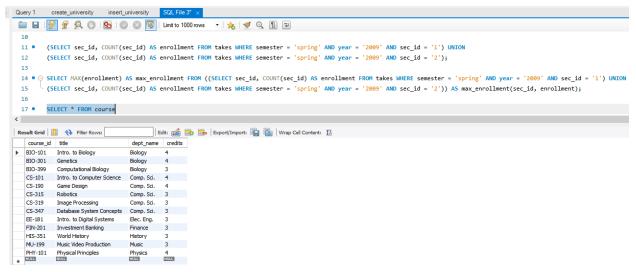


G) SELECT MAX(enrollment) AS max_enrollment FROM ((SELECT sec_id, COUNT(sec_id) AS enrollment FROM takes WHERE semester = 'spring' AND year = '2009' AND sec_id = '1') UNION

(SELECT sec_id, COUNT(sec_id) AS enrollment FROM takes WHERE semester = 'spring' AND year = '2009' AND sec_id = '2')) AS max_enrollment(sec_id, enrollment);



H) Before



After

DELETE FROM course WHERE course_id NOT IN (SELECT section.course_id From section)

