Below are SQL codes and query output for the eight (8) assigned tasks.

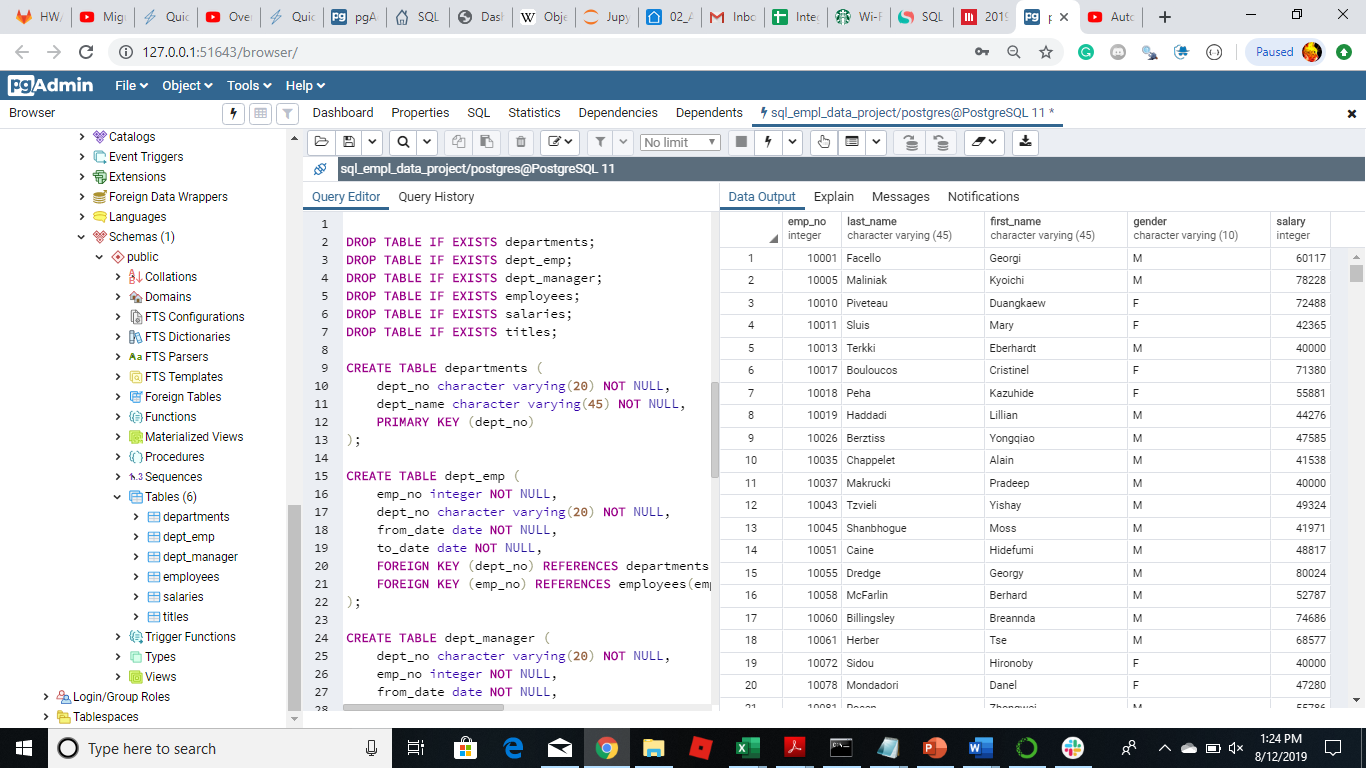
-- 1. List the following details of each employee: employee number, last name, first name, gender, and salary.

select e.emp\_no, e.last\_name, e.first\_name, e.gender, s.salary

from employees AS e

left join salaries AS s

on s.emp\_no = e.emp\_no;

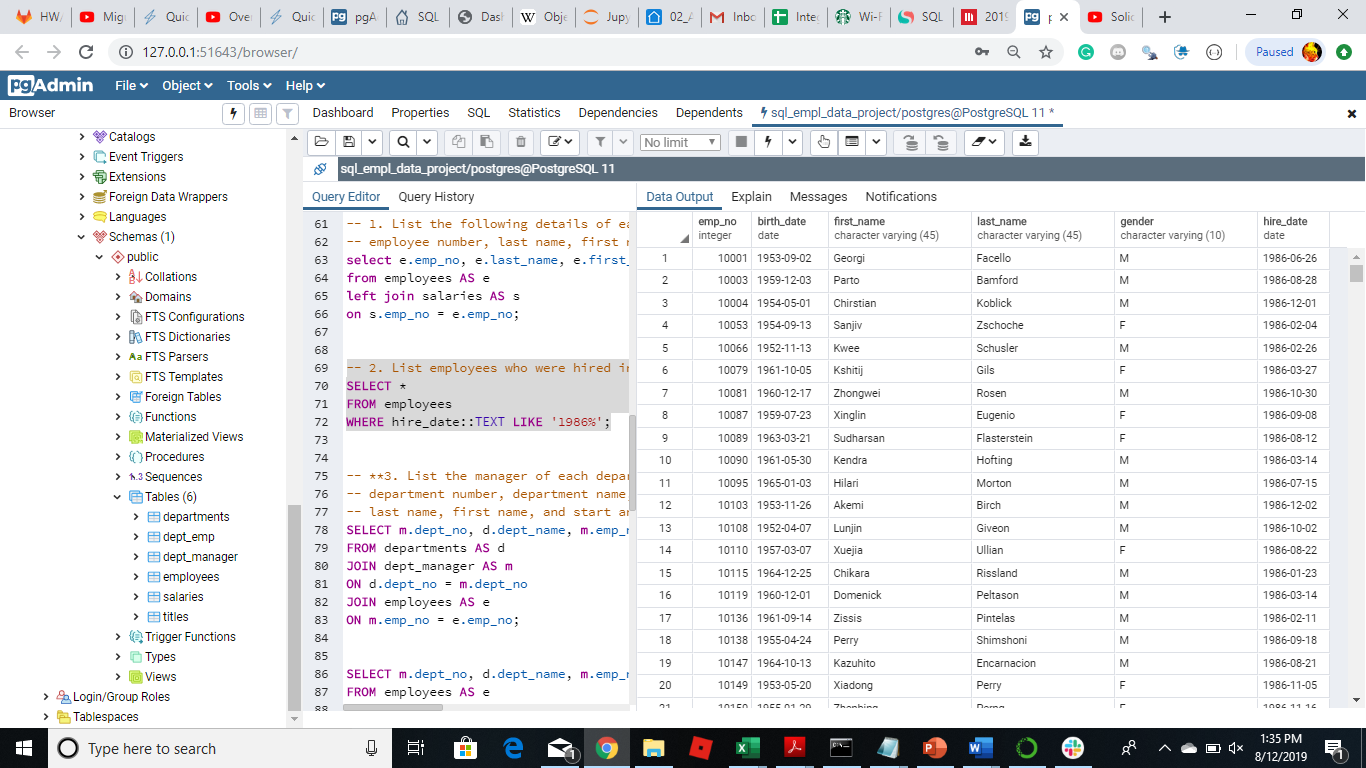


-- 2. List employees who were hired in 1986.

SELECT \*

FROM employees

WHERE hire\_date::TEXT LIKE '1986%';



-- \*\*3. List the manager of each department with the following information: department number, department name, the manager's employee number, last name, first name, and start and end employment dates.

SELECT m.dept\_no, d.dept\_name, m.emp\_no, e.last\_name, e.first\_name, m.from\_date, m.to\_date

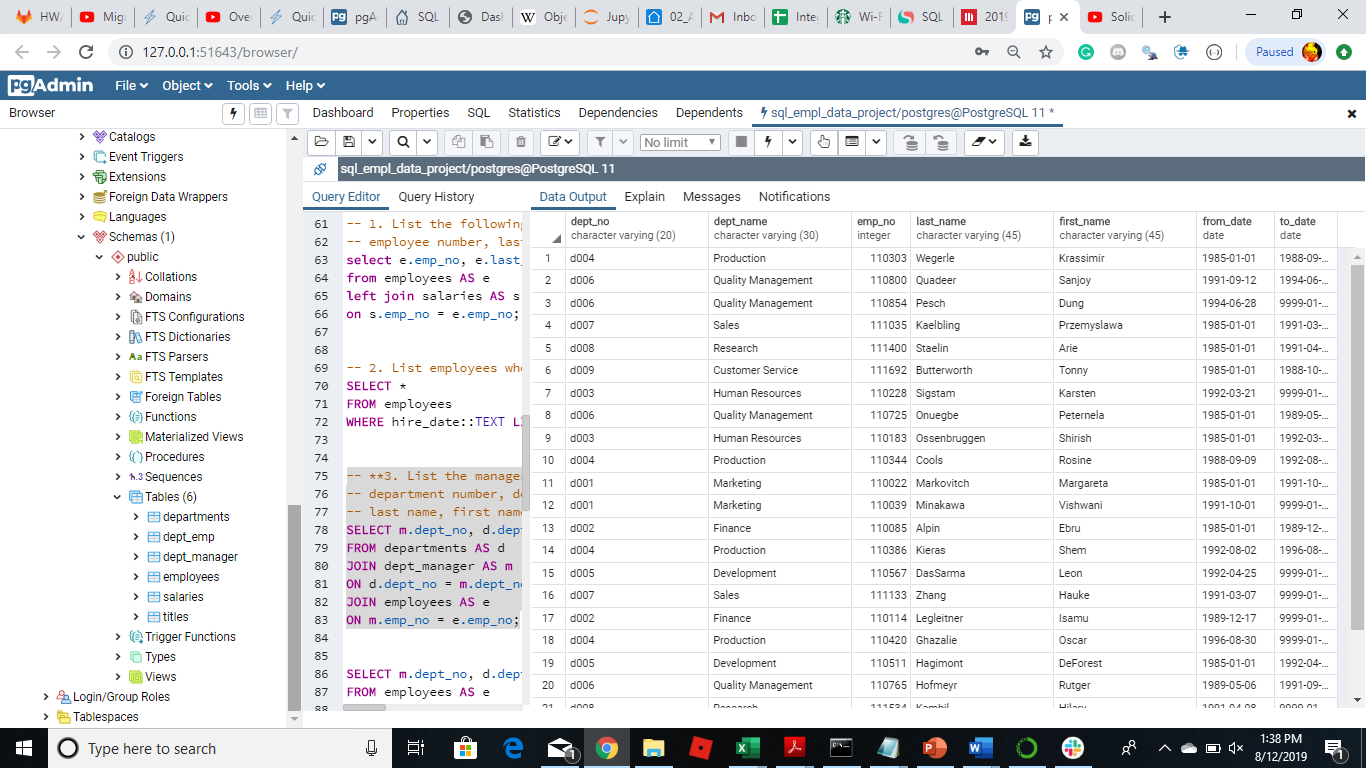
FROM departments AS d

JOIN dept\_manager AS m

ON d.dept\_no = m.dept\_no

JOIN employees AS e

ON m.emp\_no = e.emp\_no;



ALTERNATE OR OPTIONAL SQL CODE, PROVIDED SAME RESULTS:

SELECT m.dept\_no, d.dept\_name, m.emp\_no, e.last\_name, e.first\_name, m.from\_date, m.to\_date

FROM employees AS e

JOIN dept\_manager AS m

ON m.emp\_no = e.emp\_no

JOIN departments AS d

ON d.dept\_no = m.dept\_no;

-- 4. List the department of each employee with the following information: employee number, last name, first name, and department name.

SELECT e.emp\_no, e.last\_name, e.first\_name, t.dept\_name

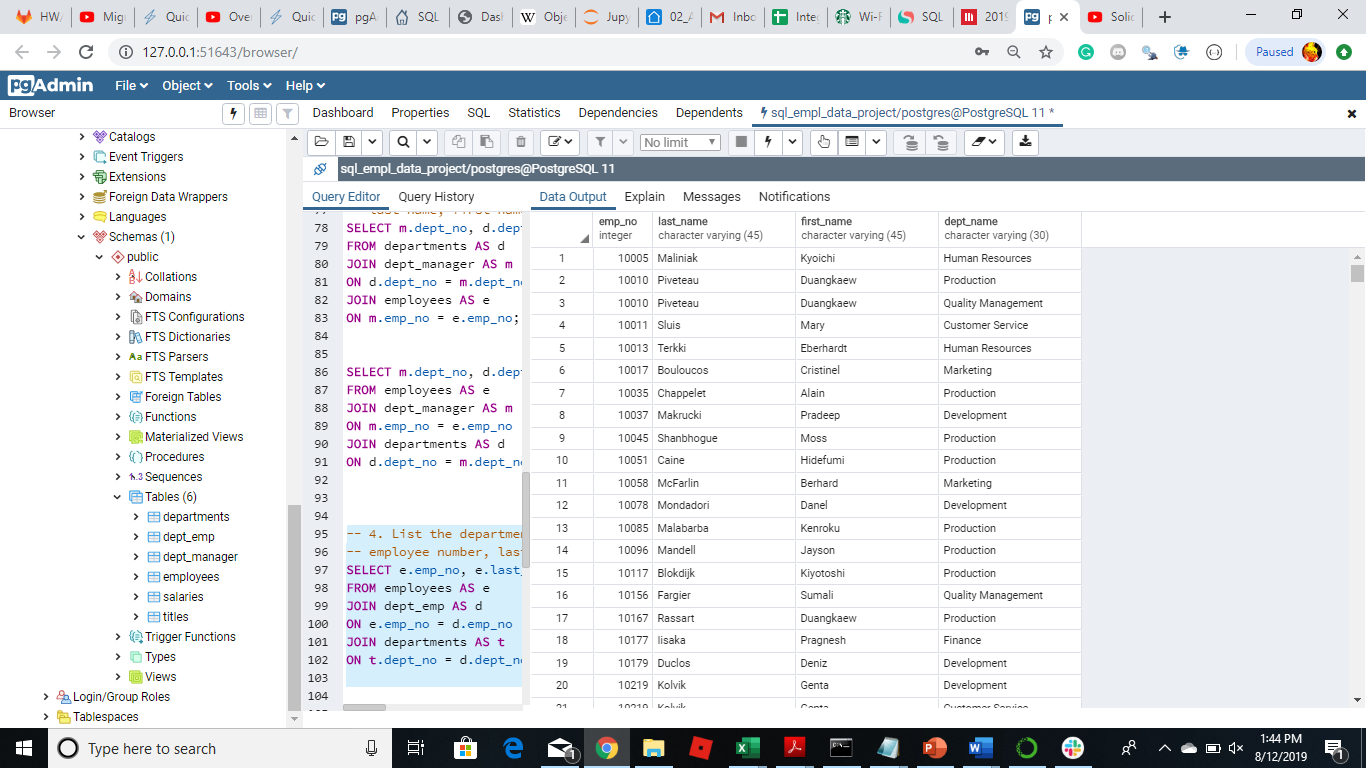
FROM employees AS e

JOIN dept\_emp AS d

ON e.emp\_no = d.emp\_no

JOIN departments AS t

ON t.dept\_no = d.dept\_no;



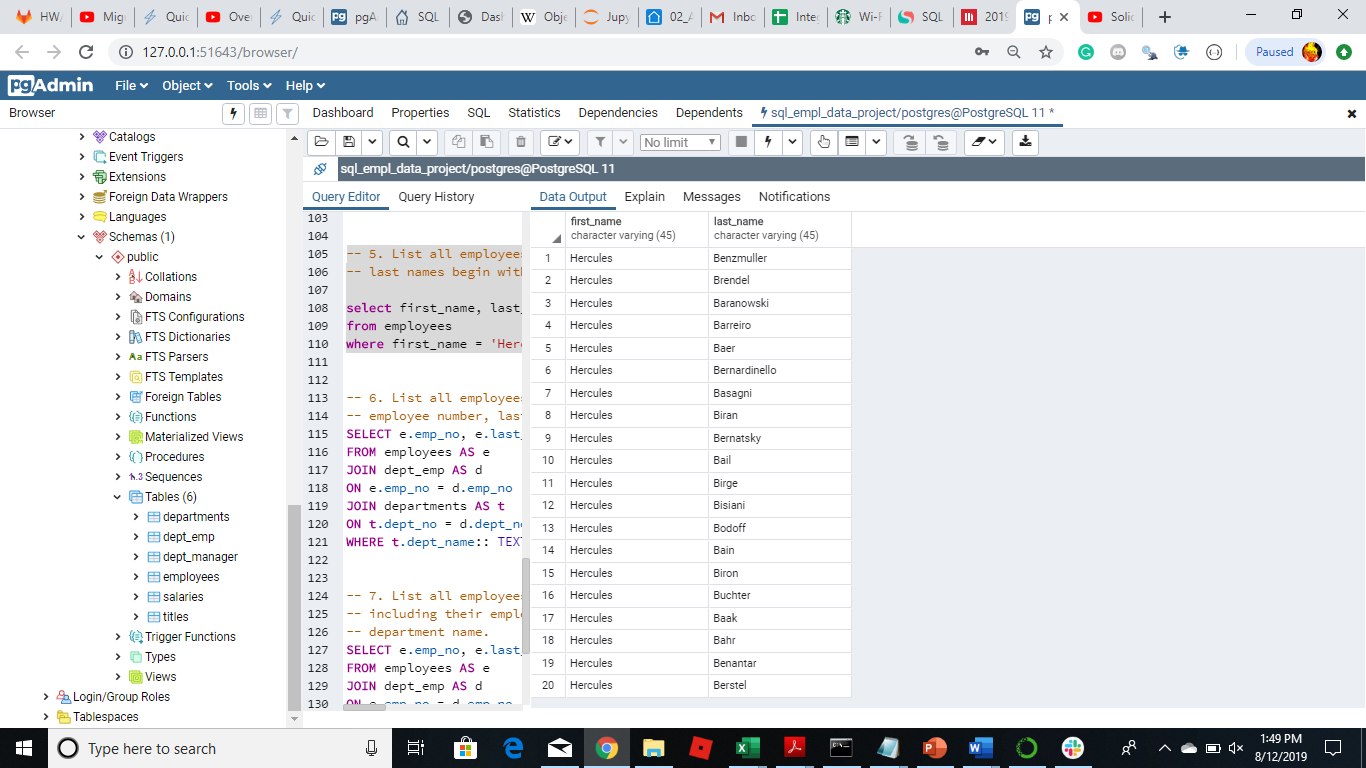
-- 5. List all employees whose first name is "Hercules" and

-- last names begin with "B."

SELECT first\_name, last\_name

FROM employees

WHERE first\_name = 'Hercules' AND last\_name::TEXT LIKE 'B%';



-- 6. List all employees in the Sales department, including their employee number, last name, first name, and department name.

SELECT e.emp\_no, e.last\_name, e.first\_name, t.dept\_name

FROM employees AS e

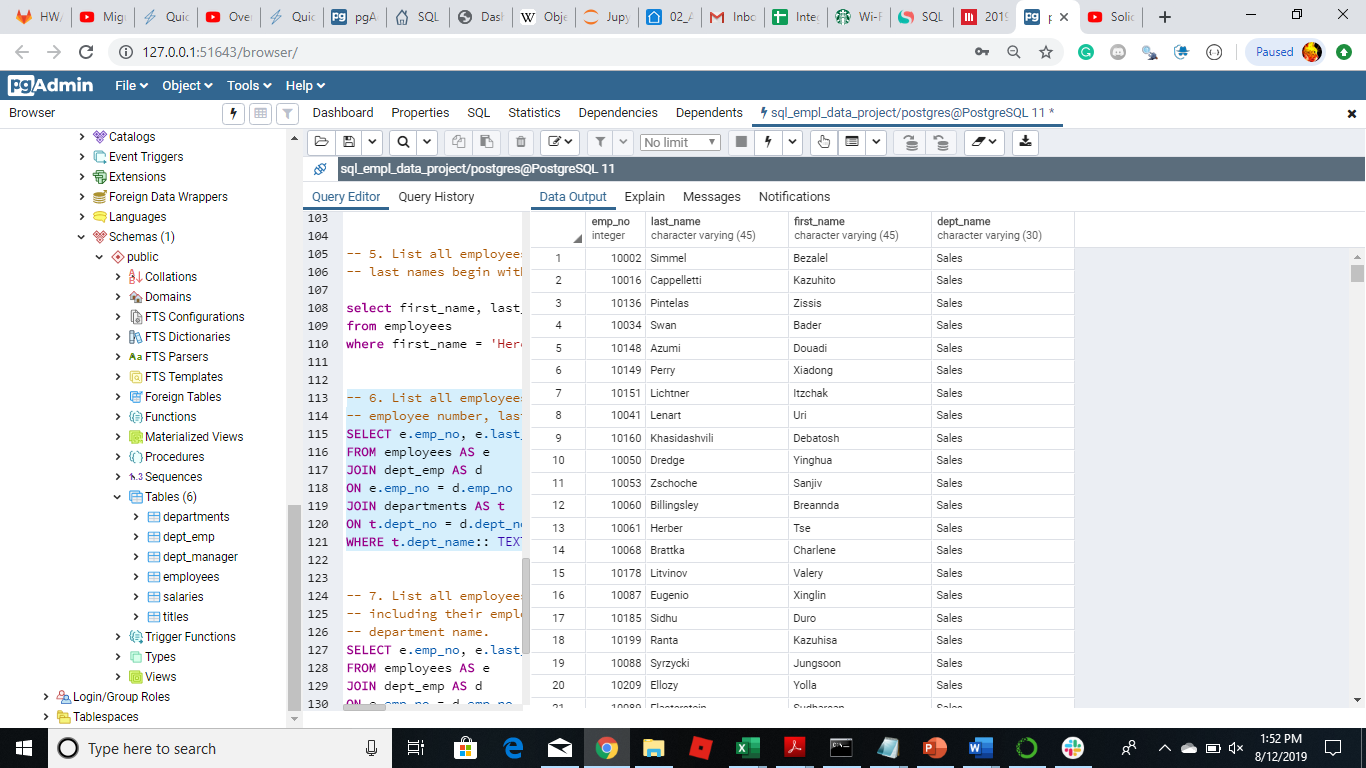
JOIN dept\_emp AS d

ON e.emp\_no = d.emp\_no

JOIN departments AS t

ON t.dept\_no = d.dept\_no

WHERE t.dept\_name:: TEXT LIKE 'Sales';



-- 7. List all employees in the Sales and Development departments, including their employee number, last name, first name, and department name.

SELECT e.emp\_no, e.last\_name, e.first\_name, t.dept\_name

FROM employees AS e

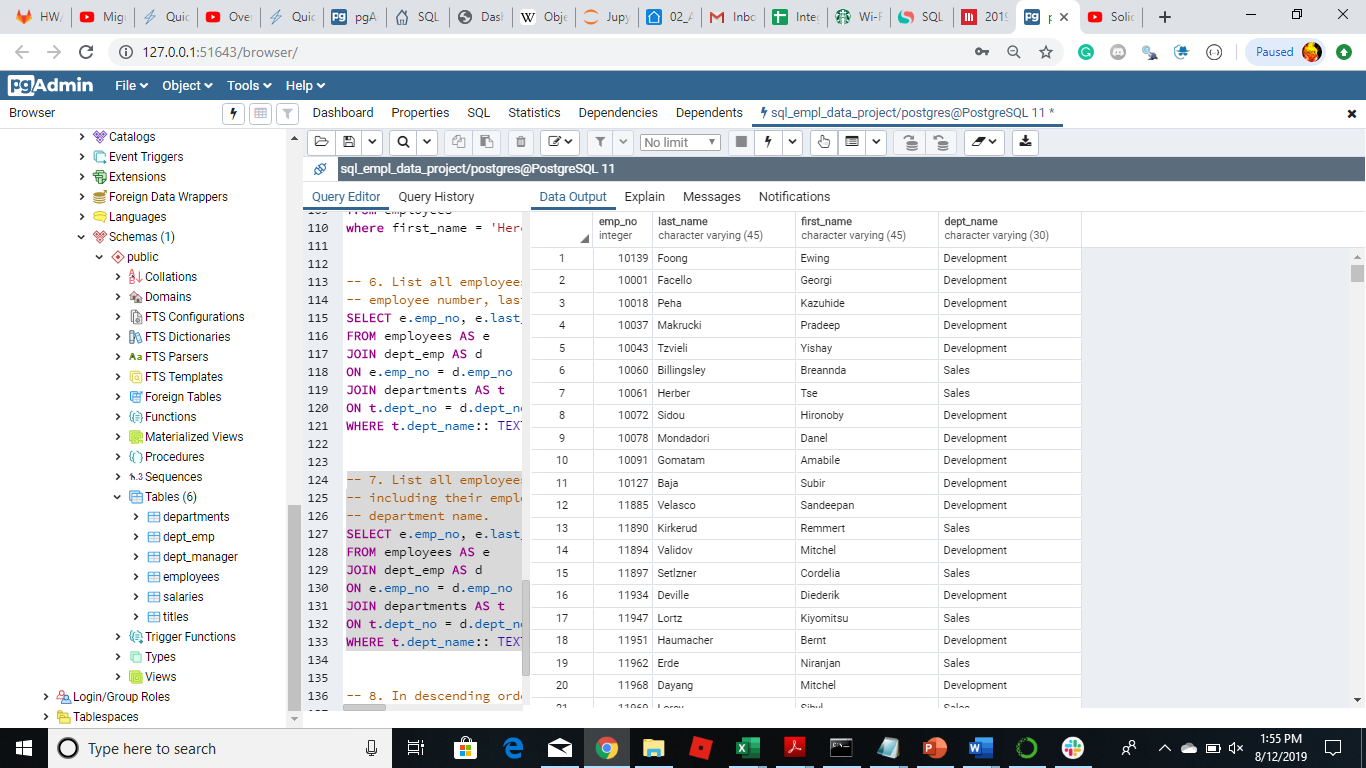
JOIN dept\_emp AS d

ON e.emp\_no = d.emp\_no

JOIN departments AS t

ON t.dept\_no = d.dept\_no

WHERE t.dept\_name:: TEXT LIKE 'Sales' OR t.dept\_name:: TEXT LIKE 'Development' AND t.dept\_name:: TEXT LIKE 'Development';



-- 8. In descending order, list the frequency count of employee last names, i.e., how many employees share each last name.

SELECT last\_name, COUNT (last\_name) AS "Last name counts"

From employees

GROUP BY last\_name

ORDER BY "last\_name" DESC;

