DROP TABLE departments;

DROP TABLE dept\_emp;

DROP TABLE dept\_manager;

DROP TABLE employees;

DROP TABLE salaries;

DROP TABLE titles;

CREATE TABLE departments (

dept\_no VARCHAR PRIMARY KEY,

dept\_name VARCHAR NOT NULL);

CREATE TABLE dept\_emp (

emp\_no INTEGER,

dept\_no VARCHAR NOT NULL,

from\_date VARCHAR NOT NULL,

to\_date VARCHAR NOT NULL

);

CREATE TABLE dept\_manager (

dept\_no VARCHAR,

emp\_no INTEGER,

from\_date VARCHAR NOT NULL,

to\_date VARCHAR NOT NULL

);

CREATE TABLE employees (

emp\_no INTEGER,

birth\_date VARCHAR NOT NULL,

first\_name VARCHAR NOT NULL,

last\_name VARCHAR NOT NULL,

gender VARCHAR NOT NULL,

hire\_date VARCHAR NOT NULL

);

CREATE TABLE salaries (

emp\_no INTEGER,

salary INTEGER NOT NULL,

from\_date VARCHAR NOT NULL,

to\_date VARCHAR NOT NULL

);

CREATE TABLE titles (

emp\_no INTEGER,

title VARCHAR NOT NULL,

from\_date VARCHAR NOT NULL,

to\_date VARCHAR NOT NULL

);

SELECT \* FROM departments;

SELECT \* FROM dept\_emp;

SELECT \* FROM dept\_manager;

SELECT \* FROM employees;

SELECT \* FROM salaries;

SELECT \* FROM titles;

-- (1) List the following details of each employee:

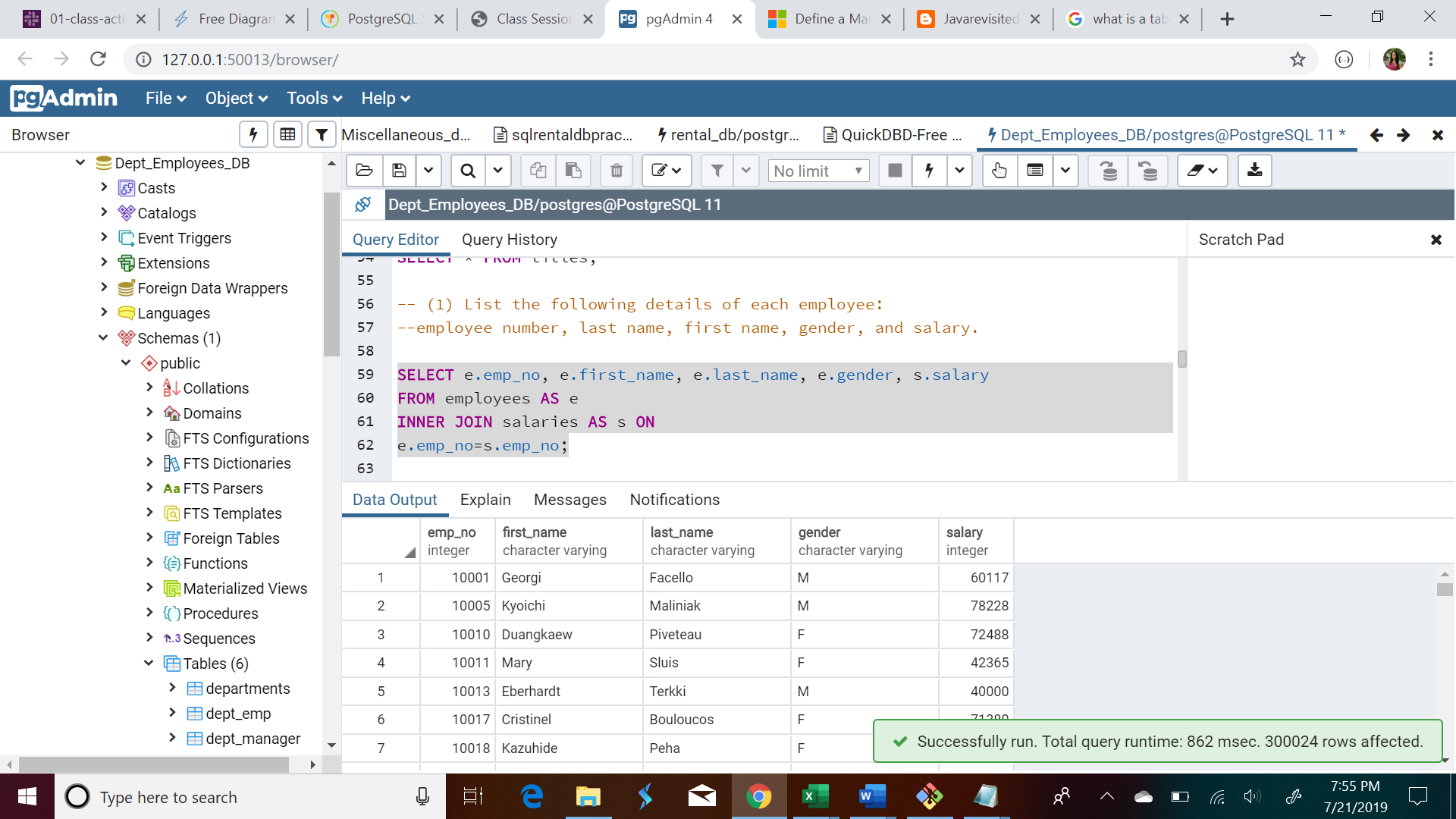
--employee number, last name, first name, gender, and salary.

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

FROM employees AS e

INNER JOIN salaries AS s ON

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

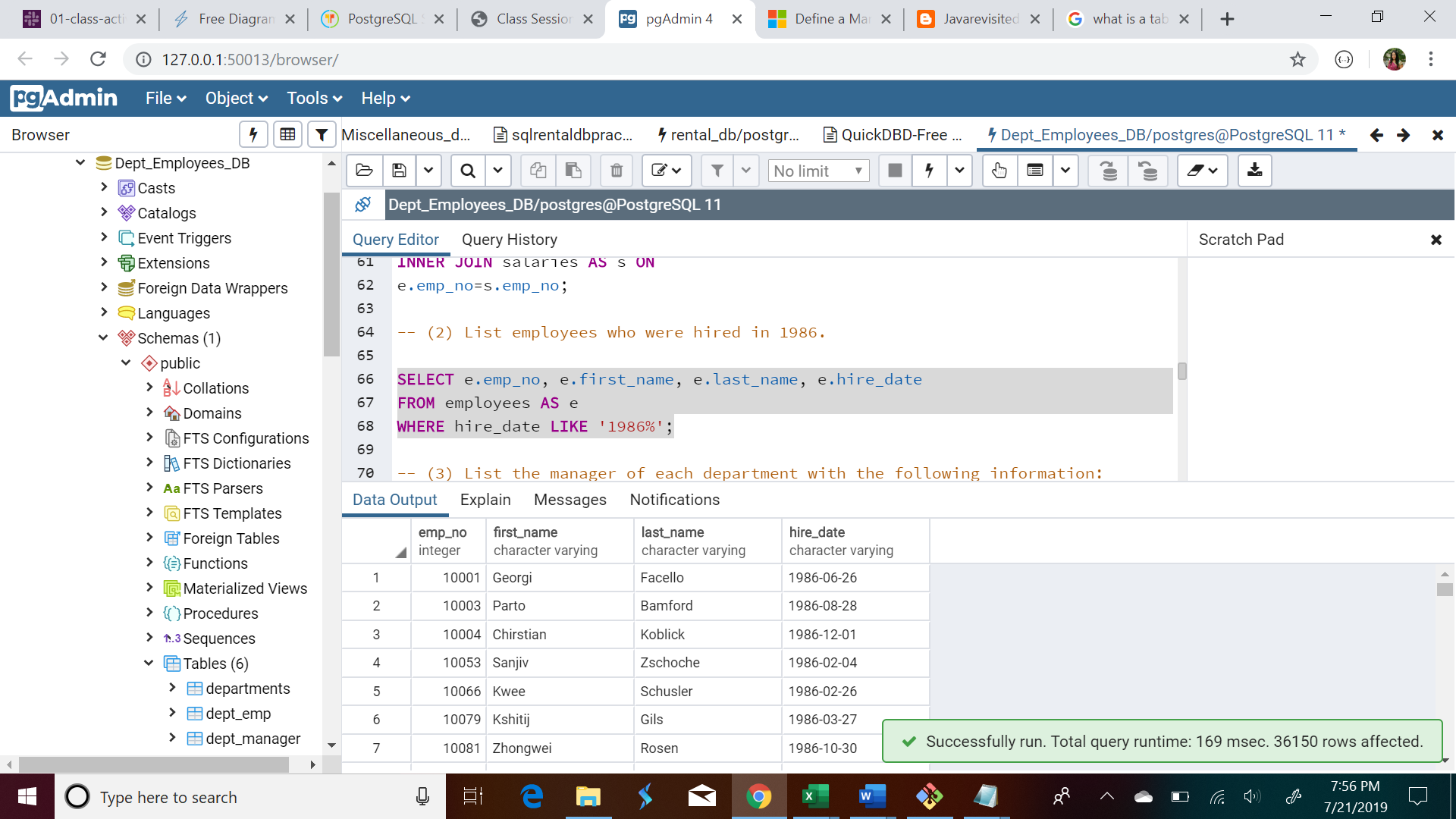


-- (2) List employees who were hired in 1986.

SELECT e.emp\_no, e.first\_name, e.last\_name, e.hire\_date

FROM employees AS e

WHERE hire\_date 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 d.dept\_no, d.emp\_no, d.from\_date, d.to\_date, e.first\_name,

e.last\_name, de.dept\_name

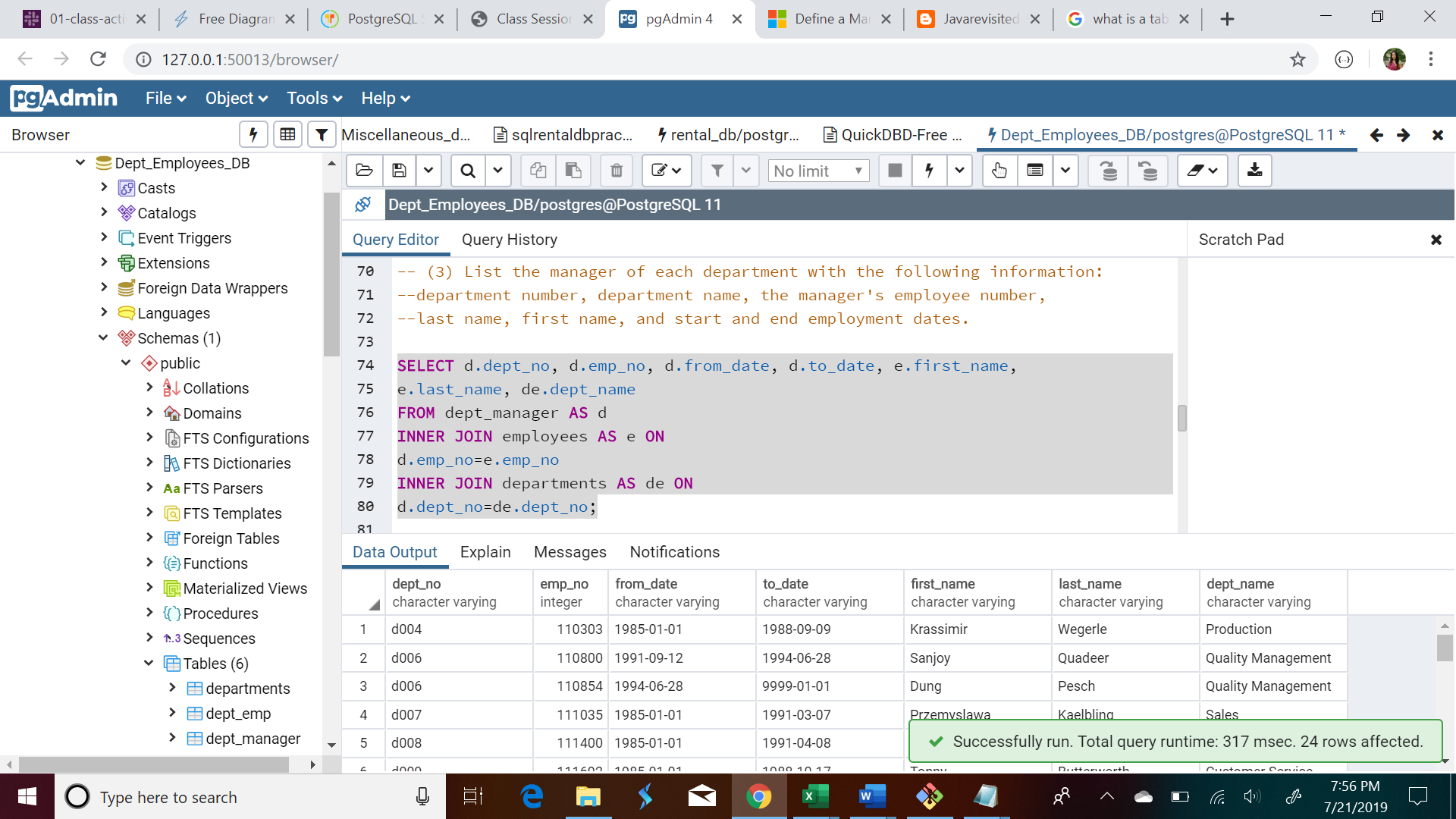
FROM dept\_manager AS d

INNER JOIN employees AS e ON

d.emp\_no=e.emp\_no

INNER JOIN departments AS de ON

d.dept\_no=de.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.first\_name, e.last\_name, de.dept\_name

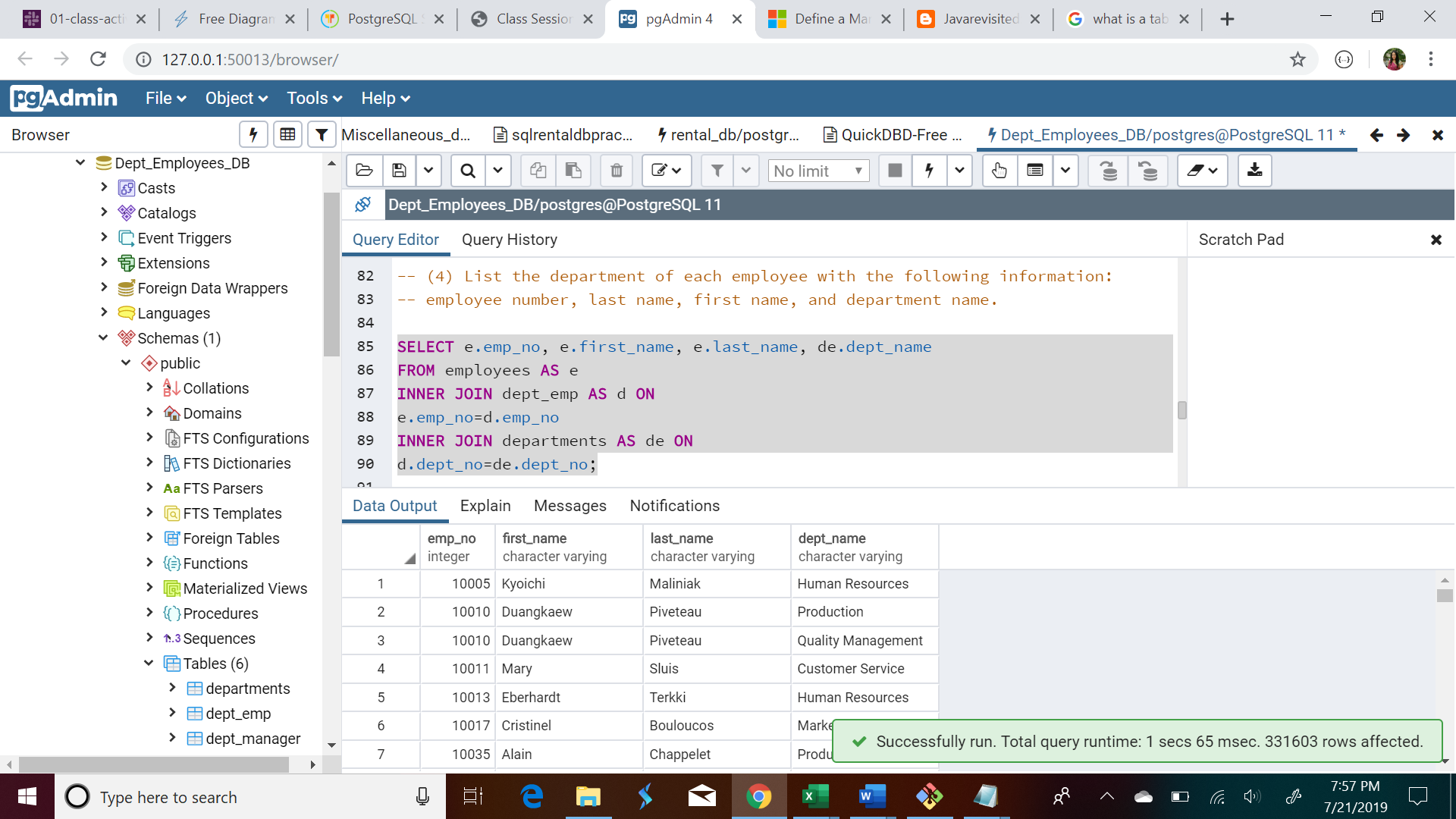
FROM employees AS e

INNER JOIN dept\_emp AS d ON

e.emp\_no=d.emp\_no

INNER JOIN departments AS de ON

d.dept\_no=de.dept\_no;

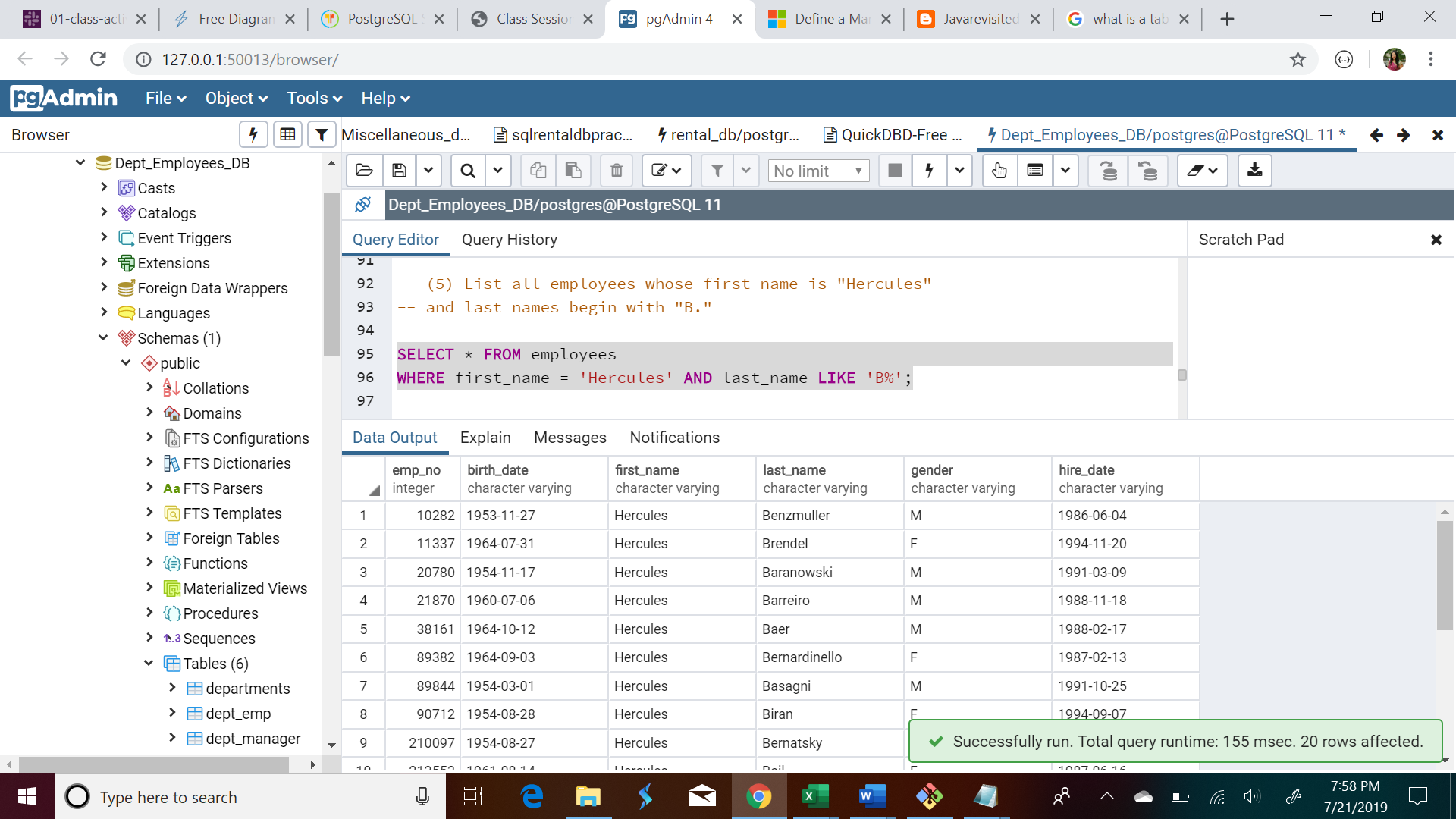


-- (5) List all employees whose first name is "Hercules"

-- and last names begin with "B."

SELECT \* FROM employees

WHERE first\_name = 'Hercules' AND last\_name 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.first\_name, e.last\_name, de.dept\_name

FROM employees AS e

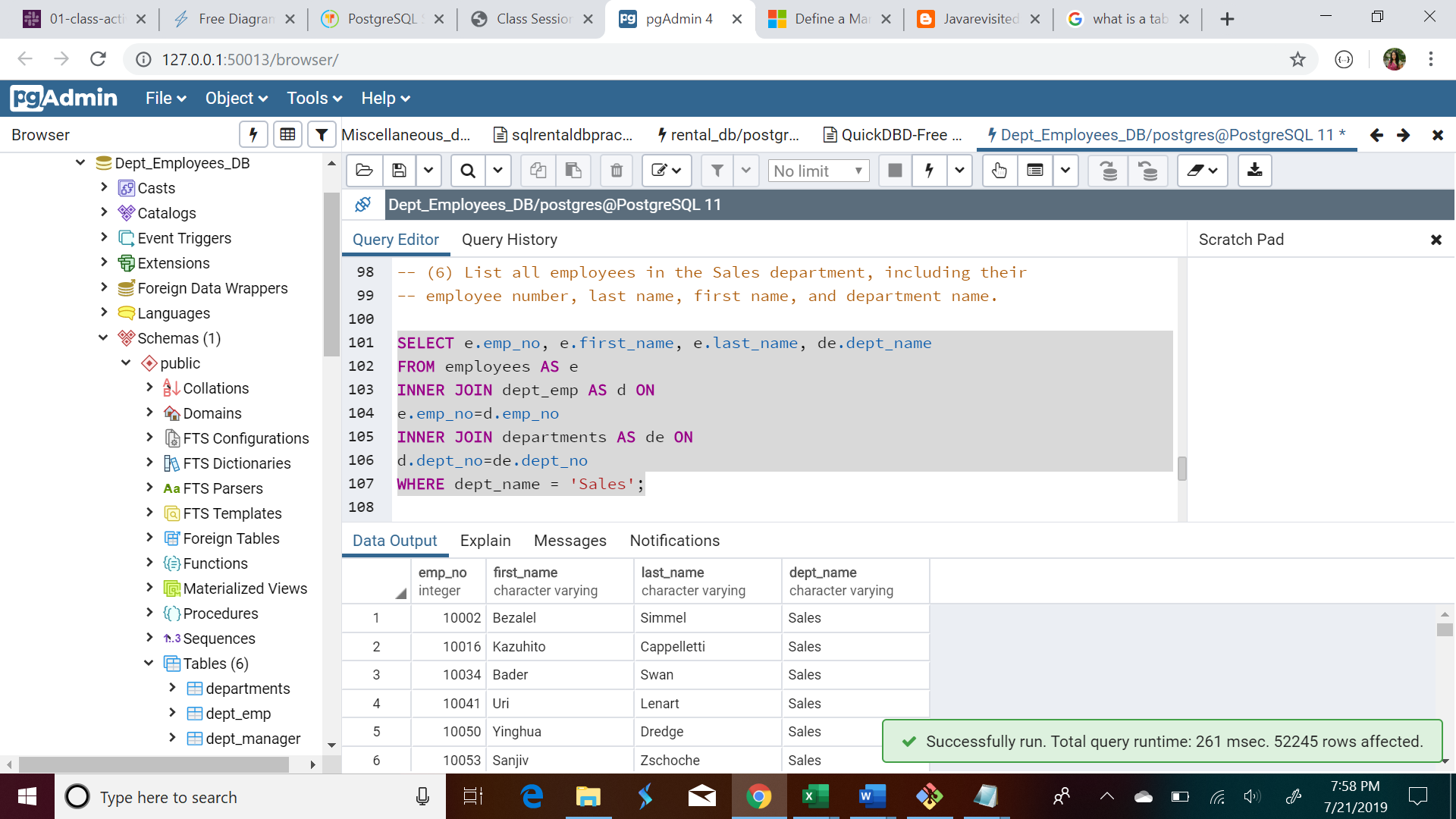
INNER JOIN dept\_emp AS d ON

e.emp\_no=d.emp\_no

INNER JOIN departments AS de ON

d.dept\_no=de.dept\_no

WHERE dept\_name = '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.first\_name, e.last\_name, de.dept\_name

FROM employees AS e

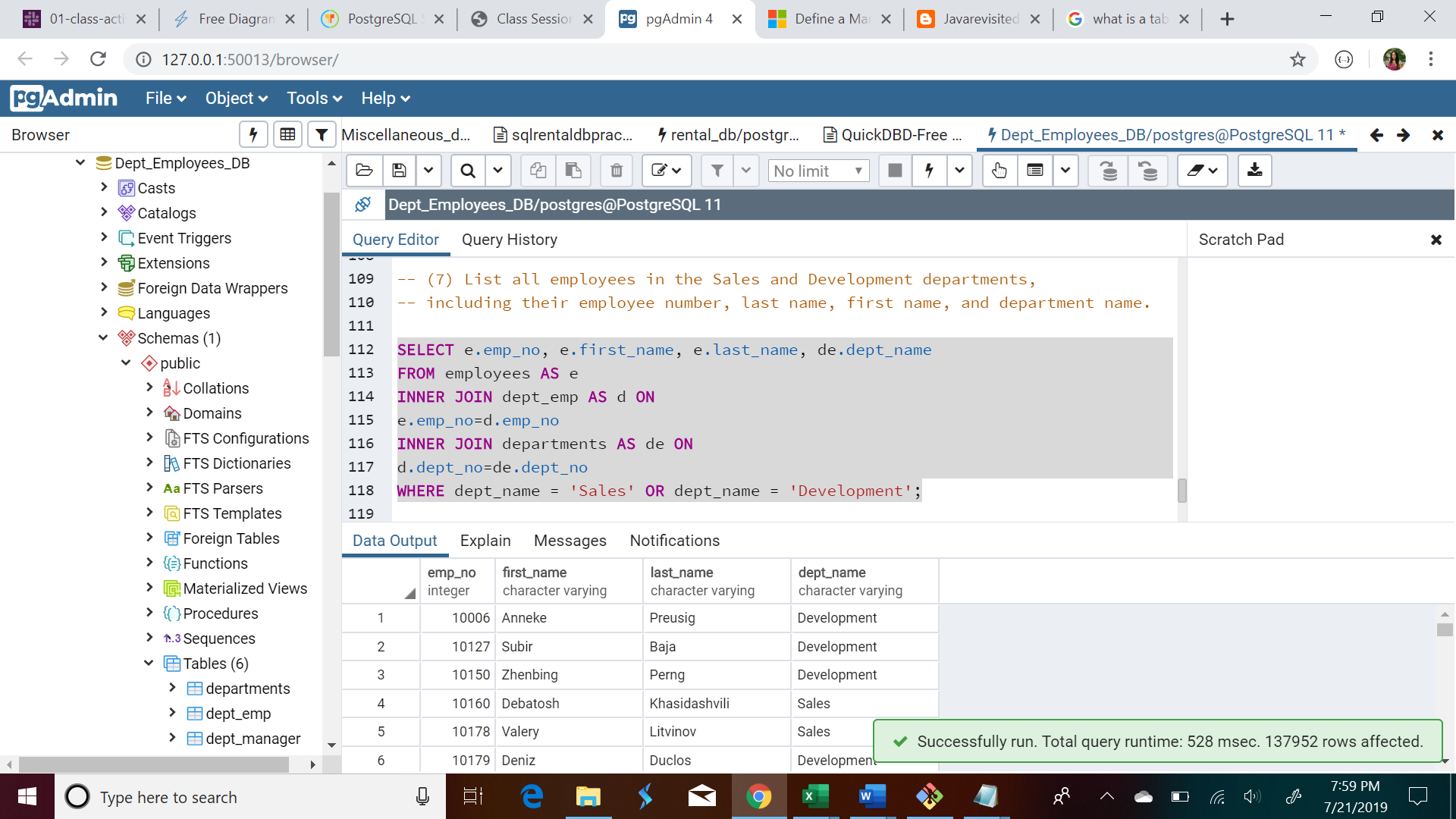
INNER JOIN dept\_emp AS d ON

e.emp\_no=d.emp\_no

INNER JOIN departments AS de ON

d.dept\_no=de.dept\_no

WHERE dept\_name = 'Sales' OR dept\_name = '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 Count"

FROM employees

GROUP By last\_name

ORDER BY "Last Name Count" DESC;

