

**Task 1:** Inserting two (2) data points into the city and weather tables

In order to add more data points to each table, I used the SQL editor to type SQL code containing the data that I wished to enter. I had to execute two different scripts in order to add data to the different city and weather tables. The following screenshots are of the SQL that I wrote as well as the refreshed tables containing the proper data.

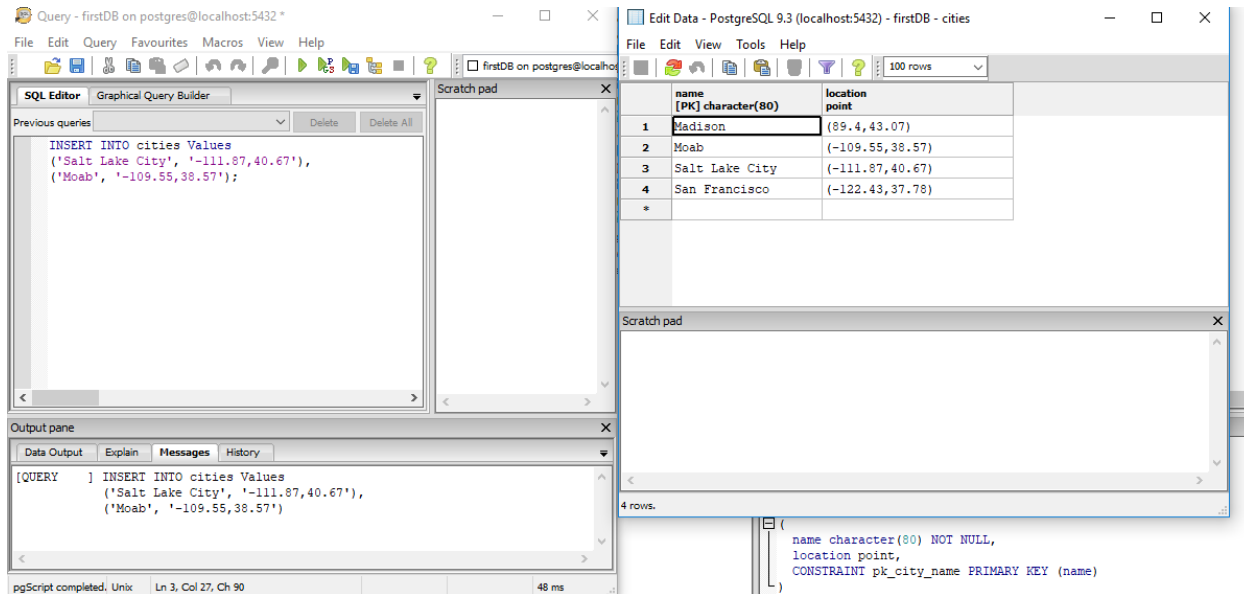


Figure 1 SQL Code for Cities Update

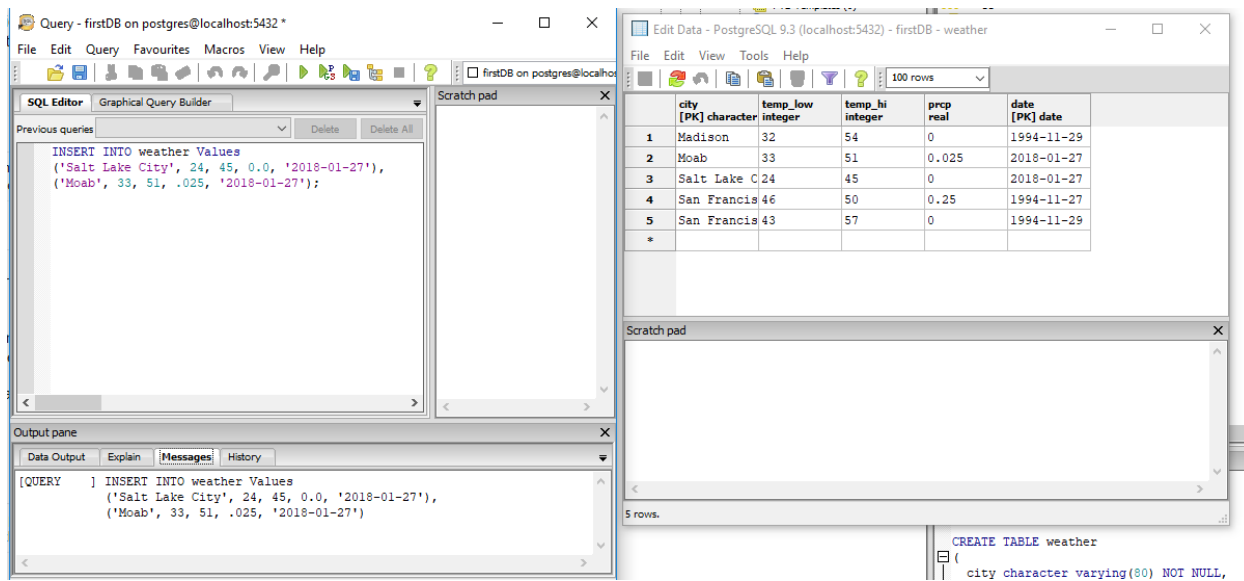


Figure 2 SQL Code for Weather Update

**Task 2** Query to list all cities with name, location, temp\_lo, temp\_hi, prcp, and date.

In order to list all of the cities each with name, location, temp\_lo, temp\_hi, prcp, and date, I used the Graphical Query Builder to perform the query. I performed a join on the cities and weather tables on 'name' in the cities table and 'city' in the weather table. I then executed the query and observed the results seen in Figure 4.

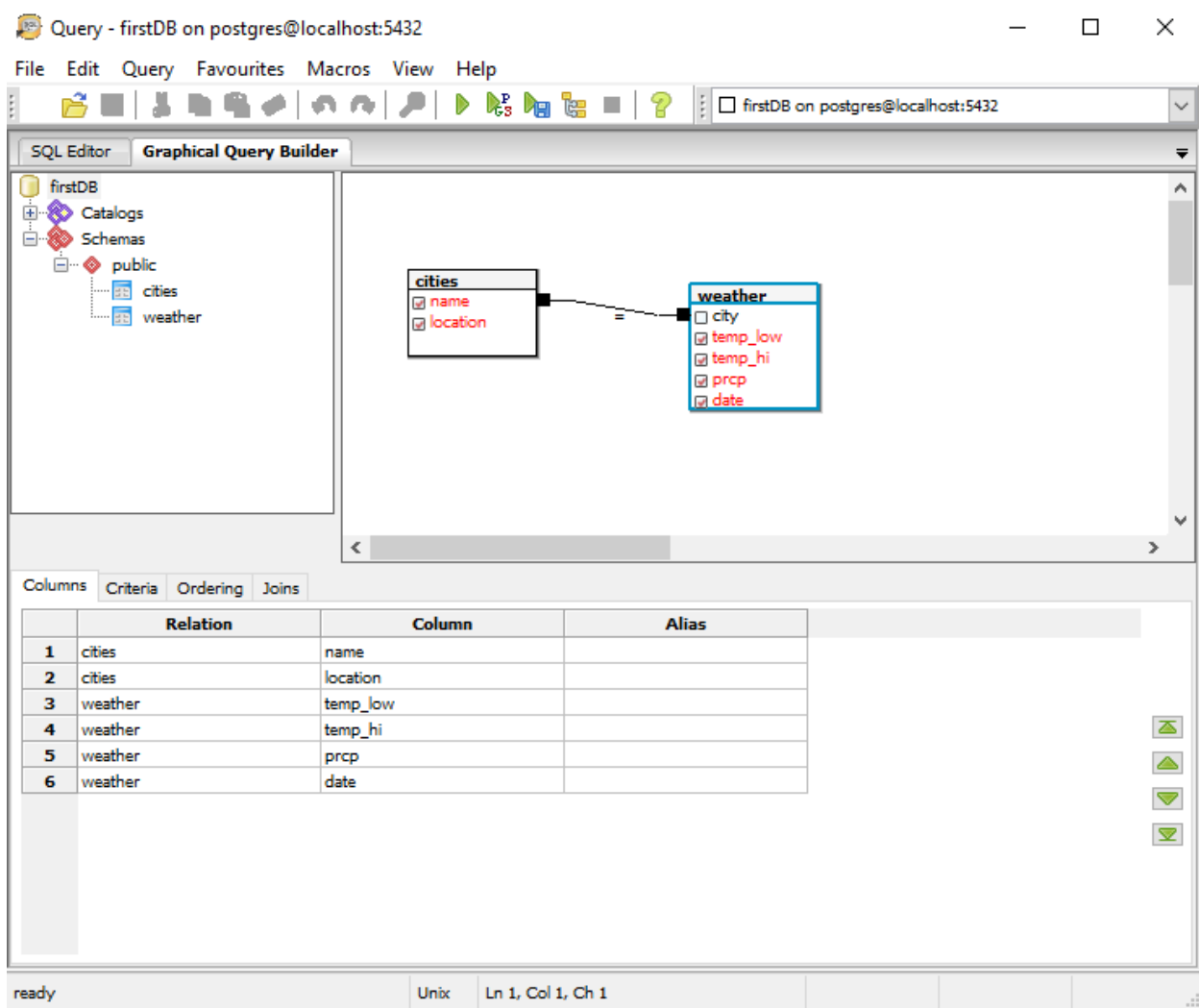


Figure 3 Graphical Query Builder

The screenshot shows the PostgreSQL SQL Editor interface. The top menu bar includes File, Edit, Query, Favourites, Macros, View, and Help. The toolbar contains various icons for file operations and execution. The main window is titled "Query - firstDB on postgres@localhost:5432 \*". The SQL Editor tab is active, displaying the following query:

```
SELECT
  cities.name,
  cities.location,
  weather.temp_low,
  weather.temp_hi,
  weather.prcp,
  weather.date
FROM
  public.cities,
  public.weather
WHERE
  cities.name = weather.city;
```

To the right of the SQL Editor is a "Scratch pad" tab. Below the SQL Editor is the "Output pane", which has tabs for Data Output, Explain, Messages, and History. The "Data Output" tab is selected, showing the results of the query in a table format:

	name character(80)	location point	temp_low integer	temp_hi integer	prcp real	date date
1	San Francisco	(-122.43,37.78)	43	57	0	1994-11-29
2	Madison	(89.4,43.07)	32	54	0	1994-11-29
3	San Francisco	(-122.43,37.78)	46	50	0.25	1994-11-27
4	Salt Lake City	(-111.87,40.67)	24	45	0	2018-01-27
5	Moab	(-109.55,38.57)	33	51	0.025	2018-01-27

At the bottom of the window, a status bar shows "OK.", "Unix", "Ln 13, Col 1, Ch 196", "5 rows.", and "11 ms".

Figure 4 Graphical Query Builder Results