

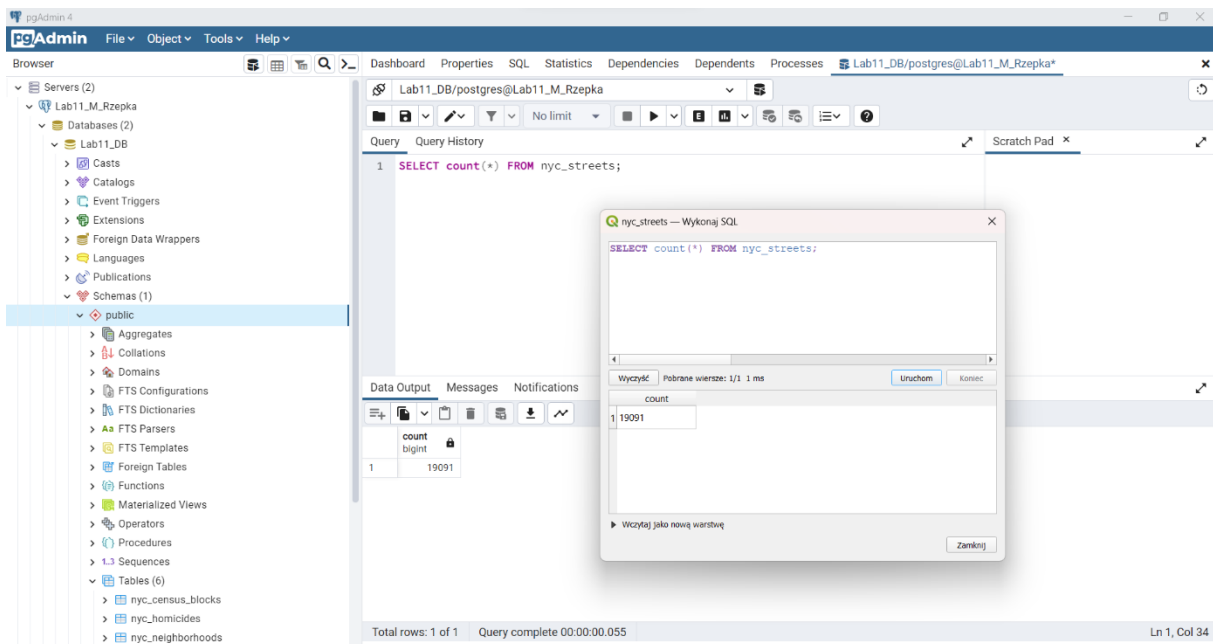
SPRAWOZDANIE NR. 11

BAZA DANYCH PRZESTRZENNYCH/PostGIS

Maksym Rzepka

Odpowiedzi na pytania z laboratorium 11:

1. Ile rekordów znajduje się w tabeli nyc_streets?



The screenshot shows the pgAdmin 4 interface. In the left sidebar, the 'public' schema is selected under the 'Lab11_DB' database. The main query editor displays the following SQL query:

```
1 SELECT count(*) FROM nyc_streets;
```

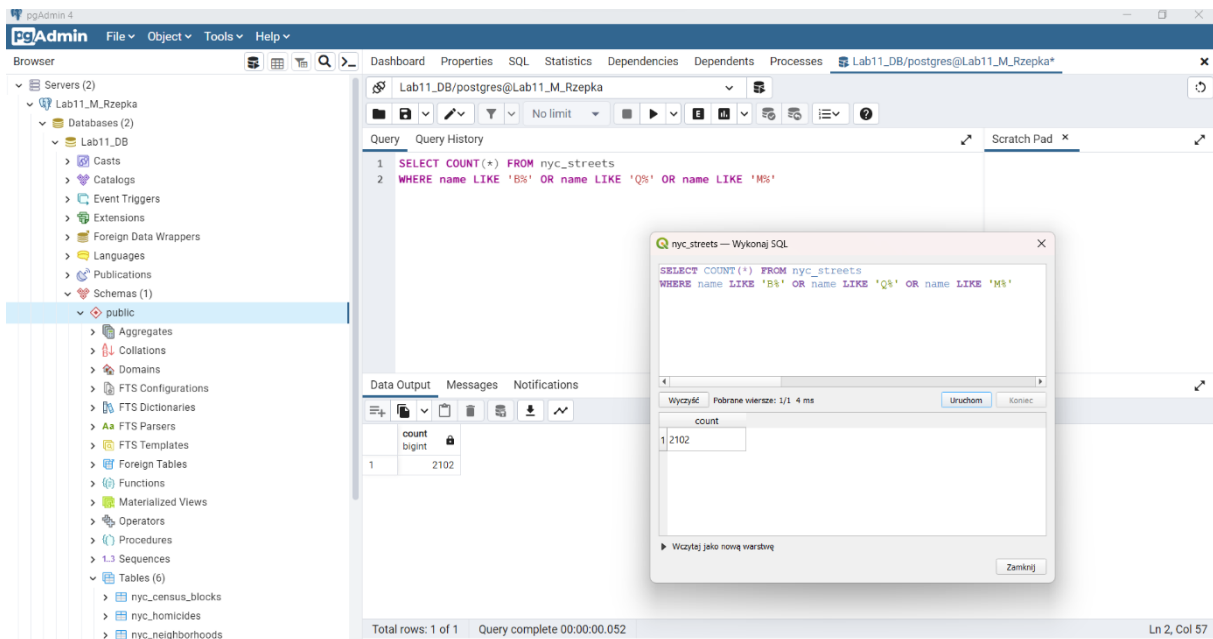
The 'Data Output' pane at the bottom shows the result of the query:

count
19091

A small window titled 'nyc_streets — Wykonaj SQL' is also visible, showing the same query and the result '1 19091'. The status bar at the bottom indicates 'Total rows: 1 of 1' and 'Query complete 00:00:00.055'.

Odpowiedź: 19091

2. Ile ulic w Nowym Jorku ma nazwy zaczynające się na „B”, „Q” i „M”?



The screenshot shows the pgAdmin 4 interface. The left sidebar displays the database structure, with the 'public' schema selected. The main pane shows a SQL query in the 'Query History' tab:

```
1 SELECT COUNT(*) FROM nyc_streets
2 WHERE name LIKE 'B%' OR name LIKE 'Q%' OR name LIKE 'M%'
```

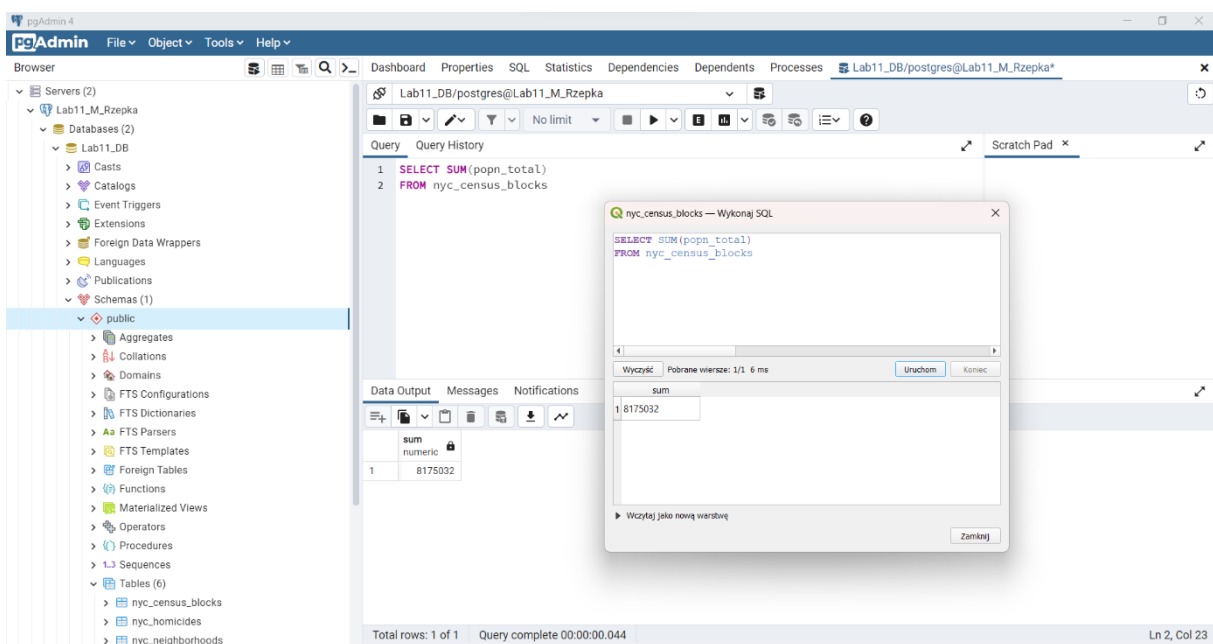
The 'Data Output' tab shows the result of the query:

count bigint
1 2102

A modal window titled 'nyc_streets — Wykonaj SQL' is also visible, showing the same query and the result 'count' with the value '1 2102'.

Odpowiedź: 2102

3. Jaka jest populacja miasta Nowy Jork?



The screenshot shows the pgAdmin 4 interface. The left sidebar displays the database structure, with the 'public' schema selected. The main pane shows a SQL query in the 'Query History' tab:

```
1 SELECT SUM(popn_total)
2 FROM nyc_census_blocks
```

The 'Data Output' tab shows the result of the query:

sum numeric
1 8175032

A modal window titled 'nyc_census_blocks — Wykonaj SQL' is also visible, showing the same query and the result 'sum' with the value '1 8175032'.

Odpowiedź: 8175032

4. Jaka jest populacja Bronxu, Manhattanu i Queens?

The first screenshot shows a query in pgAdmin 4 that filters for three boroughs: The Bronx, Manhattan, and Queens. The query is:

```
1 SELECT SUM(popn_total)
2 FROM nyc_census_blocks
3 WHERE boroname = 'The Bronx'
4 OR boroname = 'Manhattan'
5 OR boroname = 'Queens'
6
```

The result of this query is a single row with a sum of 5201602.

The second screenshot shows a query that groups the population by borough. The query is:

```
1 SELECT SUM(popn_total), boroname
2 FROM nyc_census_blocks
3 WHERE boroname IN ('The Bronx')
4 OR boroname IN ('Manhattan')
5 OR boroname IN ('Queens')
6 GROUP BY boroname
7
```

The result of this query is a table with three rows, one for each borough:

sum	boroname
2230621	Queens
1385108	The Bronx
1585873	Manhattan

Odpowiedź:

Suma populacji Bronxu, Manhattanu i Queens wynosi: 5201602

Dla poszczególnych dzielnic populacja wynosi:

Queens = 2230621

The Bronx = 1385108

Manhattan = 1585873

5. Ile dzielnic („neighborhoods”) znajduje się w każdej gminie (borough)?

The screenshot shows the pgAdmin 4 interface. On the left, the 'public' schema is selected, showing various database objects. The main pane displays a SQL query:

```
1 SELECT COUNT(boriname), boriname
2 FROM nyc_neighborhoods
3 GROUP BY boriname
4
5
```

Below the query, the 'Data Output' tab shows the results of the query:

count	boriname
30	Queens
23	Brooklyn
24	Staten Island
24	The Bronx
28	Manhattan

A small window titled 'nyc_neighborhoods — Wykonaj SQL' is also visible, showing the same query. The status bar at the bottom indicates 'Total rows: 5 of 5' and 'Query complete 00:00:00.076'.

Odpowiedź:

Queens = 30

Brooklyn = 23

Staten Island = 24

The Bronx = 24

Manhattan = 28