## Zad 1/2

Insertowanie wartości do tabeli uk\_250k

```
c:\Program Files\PostgreSQL\14\bin>raster2pgsql.exe -t 100x100 -I -C -M -a D:\BDP\ras250_gb\data\*.tif uk_250k | psql -d zad6 -h localhost -U postgres -p 5432

zad6=# select count(*) from uk_250k;

count

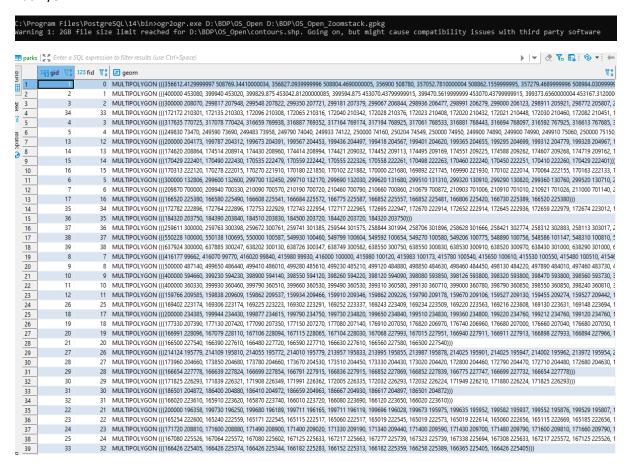
-----

89600
(1 row)
```

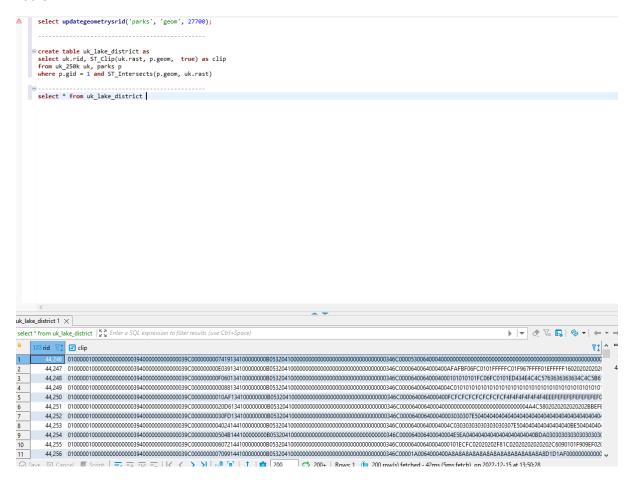
#### Zad 3

Funkcja ST\_Union na rastrach trwała parę godzin, po których pojawił się błąd. Rastry są zbyt duże żeby je połączyć w jedną mozaikę.

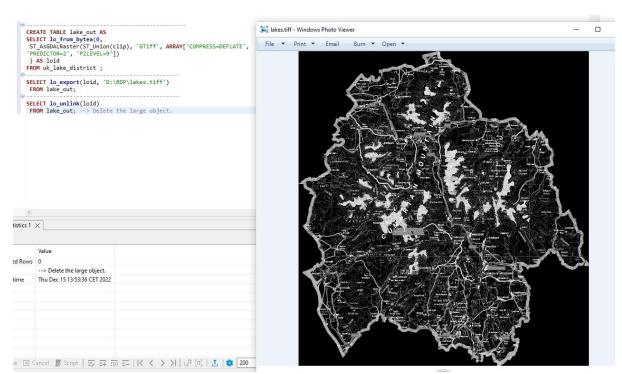
#### Zad 4/5



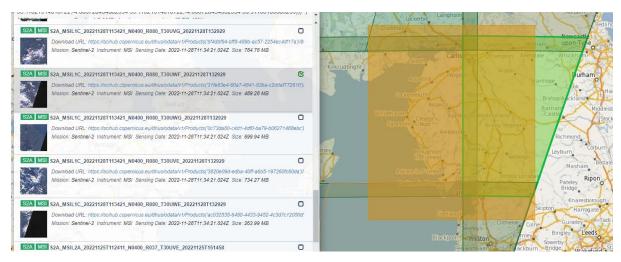
#### Zad 6



## Zad 7



# Zad 8



S2B\_MSIL2A\_20221213T113449\_N0509\_R080\_T30UVF\_20221213T130328

ttps://scihub.copernicus.eu/dhus/odata/v1/Products('1cab80ad-7357-4cbc-aeba-f66d9c90b7ca')/\$value



Summary

Date: 2022-12-13T11:34:49.024Z

Filename: S2B\_MSIL2A\_20221213T113449\_N0509\_R080\_T30UVF\_20221213T130328.SAFE Identifier: S2B\_MSIL2A\_20221213T113449\_N0509\_R080\_T30UVF\_20221213T130328

Instrument: MSI Satellite: Sentinel-2

2ad 9		
	123 rid 📆	□ rast
1	1	01000010000000000002440000000000024C00000000669184100000000045574100000000000000000000000
2	2	0100000100000000000244000000000024C00000000079184100000000004557410000000000000000000000
3	3	0100000100000000000044000000000024400000000
4	4	010000010000000000024400000000024C00000000498184100000000004574100000000000000000000000
5	5	01000010000000000002440000000002400000000
6	6	0100001000000000002400000000024000000000
7	7	01000010000000000002440000000000024C0000000002C7184100000000045574100000000000000000000000
8	8	0100000100000000000000000000000000000
9	9	0100000100000000000002440000000000024C0000000066184100000000045574100000000000000000000000
10	10	010000010000000000002440000000000024C0000000000
11	11	0100000100000000000002440000000000024C0000000000
12	12	010000010000000000002440000000000024C000000000415194100000000045574100000000000000000000000
13	13	0100000100000000000002440000000000022419410000000000
14	14	010000010000000000002440000000000003419410000000000L455741000000000000000000000000000757F000064006400600000CT12B11BE0D470A860A780B3B0F59132014B01388109
15	15 16	01000001000000000000244000000000024C000000002441941000000000D45574100000000000000000000000000000767F000064006400600008ADAEEDA400ED40CCC07C305DA076C092007A4078BD
16 17		1000001000000000000002440000000000002531910000000005574100000000000000000000000767600064006400000000
	17 18	1000001000000000000244000000000024C0000000000
18 19	19	110000011000000000000002440000000000024C000000000
20	20	10000010000000000000244000000000024C00000000402191410000000000105574100000000000000000000
21	21	01000001000000000000002440000000000024C000000000
22	22	0100000100000000000000024C00000000008B119410000000000557410000000000000000000000767F00006400600000A4068C08F20A490858092707F805CE055505A05805F
23	23	0100000100000000000024400000000000024C0000000000
24	24	010000100000000000244000000000024C00000000CDD194100000000D4557410000000000000000000000000000767F000064006400600000011F20F260F8C0FCE0F940F4E08C0F560FDF0DF40FL
25	25	0100001000000000002400000000024200000000
26	26	0100001000000000002400000000024C0000000000
27	27	010000100000000000244000000000024C0000000AFF194100000000045741000000000000000000000000
28	28	010000010000000000024400000000024C0000000040F1A4100000000D45574100000000000000000000000000767F000064006400600003A06B20525063D062B063E0624064406BF06830669062100000000000000000000000000000000
29	29	0100000100000000000044000000000024400000000
30	30	0100001000000000002440000000002400000000
31	31	0100000100000000000044000000000024400000000
32	32	0100001000000000002400000000024000000000
33	33	01000010000000000002440000000000024C0000000005D1A4100000000045574100000000000000000000000
34	34	010000010000000000022440000000000224C0000000000
35	35	0100000100000000000000244000000000024C000000000A7C1A4100000000045574100000000000000000000000
36	36	0100000100000000000024400000000000224C000000000408C1A41000000000D4557410000000000000000000000000000000000
37	37	010000010000000000000244000000000024C0000000000
38	38	0100000100000000000002440000000000024C0000000000
39	39	01000001000000000000024(0000000000000000
40	40 41	01000001000000000000244000000000024C00000000C0CA1A4100000000D457410000000000000000000000000000767F00006400640060000F015DC1578158014CB146810A8102814401688156814 010000010000000000000000000000000000
41 42	41	100000100000000000002440000000000024C0000000000
42	42	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	123 rid 📆	□ rast
1		100000100000000000034400000000003420000000034C000000003841E4100000000000455741000000000000000000000
2		010000010000000000034400000000034C000000070A31E4100000000D4557410000000000000000000000000000000000
3	-	0100000100000000000344000000000034C0000000000
4	4	
5	4	0100000100000000000344000000000034C0000000003011F41000000000D455741000000000000000000000000000767F00006400640006000BC0E910E880EB50E720FD30F7B0EA70B3A0B4D0BDA(
6		0100000100000000000344000000000034C00000007221F410000000000000000000000000000000000
7	7	
8	3	
9	-	010000010000000000034400000000034C000000034C00000000
10	10	
11	4	0100001000000000000034C0000000008BBC1F4100000000045574100000000000000000000000
12	-	01000001000000000000344000000000004C000000000F181410000000000000000000000000
13	13	
14	14	010000010000000000034400000000034C000000034C0000000380D20410000000004557410000000000000000000000
15	16	
16	10	V1000001000000000000000000000000000000

31 010000010000000000034400000000034C0000000008162141000000000D4557410000000000000000000000000000767F00006400640066000830BF40EBD12F512DE11BD121E12AC1186115211B21 32 01000010000000000034400000000034C00000007826214100000000000000000000000000000000767F000064006400600003C14B41379140F15B5144513A712271371130414DE130 34 0100000100000000000344000000000034C0000000845214100000000D4557410000000000000000000000000000084576000064006400640006000B4134C145B147D141C1447147114A912FE115E125312

# Zad 10

```
select updategeometrysrid('parks', 'geom', 32630);

create table NDWI as
with tmp as (
select s.rid, ST_Clip(s.rast, p.geom, true) as clip
from sentinel2 s, parks p
where p.gid = 1 and ST_Intersects(p.geom, s.rast)
)
select tmp.rid, ST_MapAlgebra(tmp.clip, 1, tmp.clip, 4, '([rast2.val] - [rast1.val])/([rast2.val] + [rast1.val])') as NDWI
from tmp;

select * from NDWI
```

Wypróbowałem dwa pliki z Sentiniel-2, które ze sobą graniczą. Żaden z nich nie ma wspólnej części z Lake\_District, chociaż na mapie wygląda jakby powinny być koło siebie.

# Zad 11

Z pustej tablicy nie powstanie tiff.