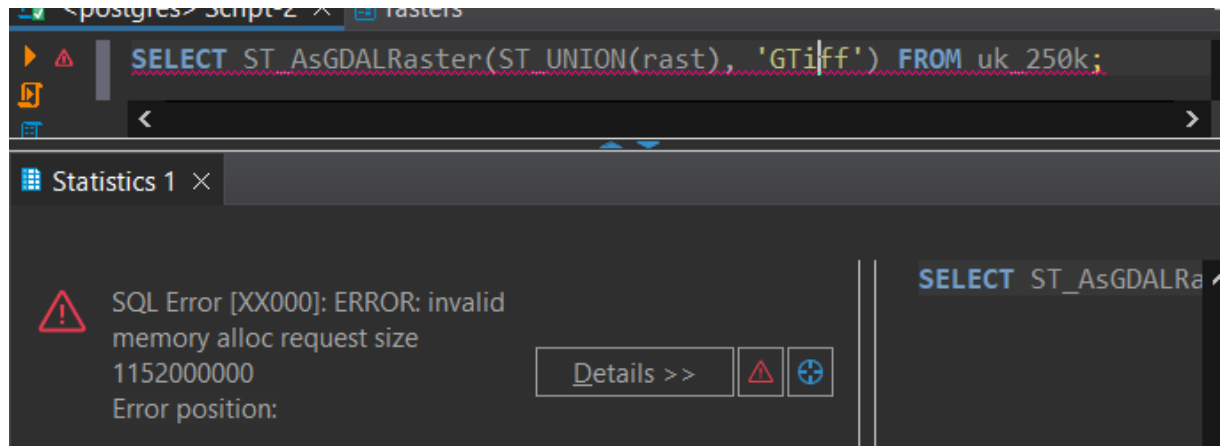


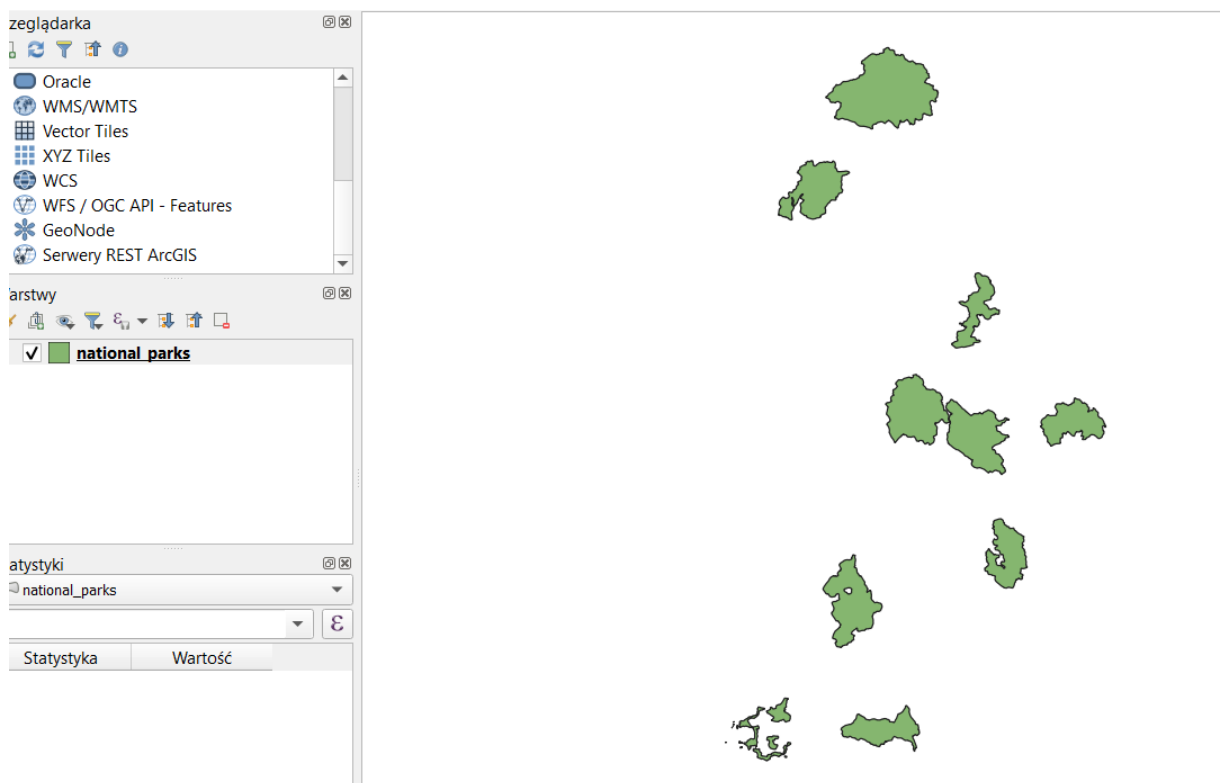
## Zad 2

```
C:\Program Files\PostgreSQL\14\bin>raster2pgsql -e "C:\Users\szymc\Downloads\ras250_gb\data\*.tif" uk_250k | psql -d lab7 -h localhost -U postgres -p 5432
Processing 1/56: C:\Users\szymc\Downloads\ras250_gb\data\HP.tif
```

## Zad 3



## Zad 5



**SELECT \* FROM NATIONAL\_PARKS;**

national\_parks 1 ×

**SELECT \* FROM NATI** Enter a SQL expression to filter results (u

	id	geom
1	1	POLYGON ((356612.4129999997 508769.3441
2	2	POLYGON ((400000 453080, 399940 453020, 3
3	3	POLYGON ((300000 208070, 299817 207948, 2
4	34	POLYGON ((172172 210301, 172135 210303, 1
5	4	POLYGON ((317635 770725, 317078 770424, 3
6	5	POLYGON ((249830 73470, 249590 73690, 249
7	13	POLYGON ((200000 204173, 199787 204312, 1
8	14	POLYGON ((174620 208864, 174514 208914, 1
9	15	POLYGON ((170429 222401, 170490 222430, 1
10	16	POLYGON ((170313 222120, 170278 222015, 1
11	6	POLYGON ((300000 132806, 299600 132600, 2
12	7	POLYGON ((300070 700000, 300040 700330, 6

Zad 6

**CREATE TABLE uk\_lake\_disctrict AS**  
**SELECT ST\_Union(ST\_Clip(uk.rast, np.geom))**  
**FROM uk\_250k AS uk, national\_parks AS np**  
**WHERE np.id = 1 and ST\_Intersects(np.geom,uk.rast);**

Statistics 1 ×

Name	Value	Value ×
Updated Rows	1	
Query	CREATE TABLE uk_lake_disctrict AS SELECT ST_Union(ST_Clip(ukrast, np.g...	

Zad 7

```
CREATE TABLE tmp_out_tiff AS
SELECT lo_from_bytea(0, ST_AsGDALRaster(ST_Union(st_union), 'GTiff'))
FROM uk_lake_district;

SELECT lo_export(lfb, 'uk_lake_district.tiff')
FROM tmp_out_tiff;

SELECT lo_unlink(lfb) FROM tmp_out_tiff;
```

Zad 9

```
C:\Program Files\PostgreSQL\14\bin>raster2pgsql -e -t 8192x8192 "C:\Users\szymc\Downloads\WETLAN~1\S2B_MS~1\S2B_MS~1.SAF\GRANULE\L1C_T3~1\IMG_DATA\*.jp2" sentinel | psql -d lab7 -h localhost -U postgres -p 5432
Processing 1/14: C:\Users\szymc\Downloads\WETLAN~1\S2B_MS~1\S2B_MS~1.SAF\GRANULE\L1C_T3~1\IMG_DATA\T30UVF_20221130T1123
```

Zad 10

```
CREATE TABLE ndvi AS SELECT ST_MapAlgebra(r.rast, 1, r.rast, 4,
'([rast2.val] - [rast1.val]) / ([rast1.val] + [rast2.val]):float', '32BF') AS rast
FROM (SELECT s.rid, ST_Clip(s.rast, np.geom) AS rast FROM
sentinel s, NATIONAL_PARKS NP WHERE st_intersects(np.geom,s.rast) AND np.id=1) AS r;
```

Zad 11

```
CREATE TABLE ndvi_union AS
SELECT ST_Union(ST_Clip(n.rast, np.geom))
FROM ndvi AS n, national_parks AS np
WHERE np.id = 1 AND ST_Intersects(np.geom,n.rast);

CREATE TABLE tmp_out2 AS
SELECT lo_from_bytea(0, ST_AsGDALRaster(ST_Union(st_union), 'GTiff'))
AS lfb
FROM ndvi_union;

SELECT lo_export(lfb, 'ndvi.tiff')
FROM tmp_out2;

SELECT lo_unlink(lfb)
FROM tmp_out2;
```

Nie udało się. Po przycięciu do national\_parks była pusta tabela.