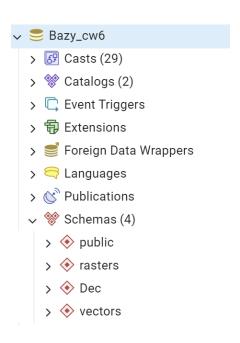
Ćwiczenia 6-7

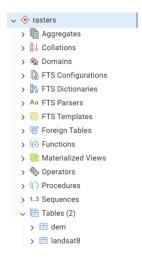
CREATE EXTENSION postgis;
 CREATE EXTENSION postgis_raster;



2.

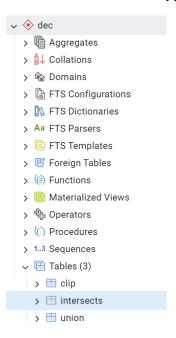
 $raster 2pg sql. exe -s 3763 -N -32767 -t 100x100 -I -C -M -d \\ "C:\Users\eweli\Studia\BazyDanychPrzestrzennych\cw6\Rastry\srtm_1arc_v3.tif" rasters.dem | psql -d Bazy_cw6 -h localhost -U postgres -p 5432$

raster2pgsql.exe -s 3763 -N -32767 -t 128x128 -I -C -M -d "C:\Users\eweli\Studia\BazyDanychPrzestrzennych\cw6\Rastry\Landsat8_L1TP_RGBN.tif" rasters.landsat8 | psql -d Bazy_cw6 -h localhost -U postgres -p 5432



3.

Tworzenie rastrów z istniejących rastrów i interakcja z wektorami



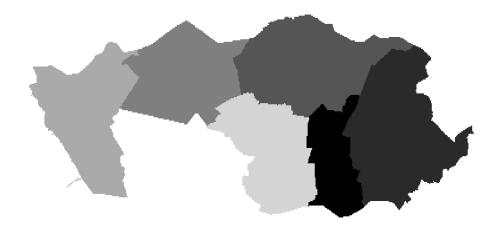
4.

Tworzenie rastrów z wektorów (rastrowanie)

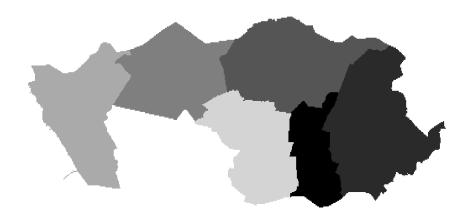
ST_AsRaster



ST_Union



ST_Tile

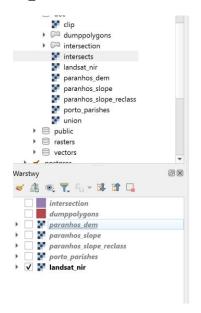


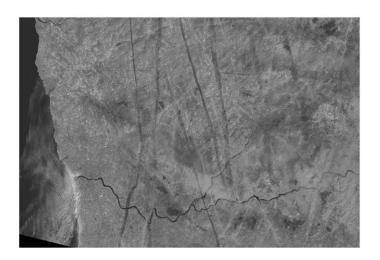
Konwertowanie rastrów na wektory (wektoryzowanie)



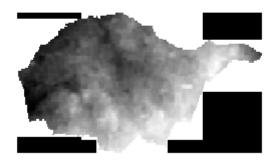
Analiza rastrów

ST_Band

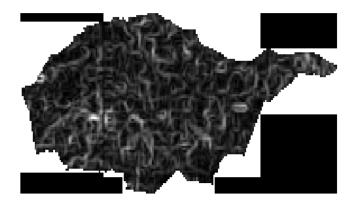




ST_Clip



ST_Slope



ST_Reclass



ST_SummaryStats

	stats summarystats
1	(2616,278385,106.41628440366972,11.622628762211638,87,14
2	(682,95581,140.14809384164224,12.078072186605759,103,158)
3	(216,31874,147.5648148148148,4.262830628315728,137,158)
4	(6463,816615,126.35231316725978,14.0438229209133,94,158)

ST_SummaryStats oraz Union

	st_summarystats summarystats	
1	(9977,1222455,122.52731281948482,16.908004202736272,87,15	

ST_SummaryStats z lepszą kontrolą złożonego typu danych

	min double precision	max double precision	mean double precision
1	87	158	122.52731281948482

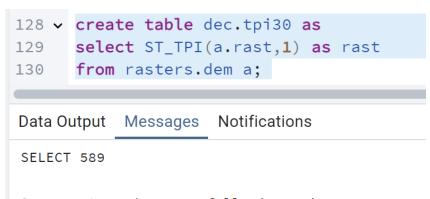
ST_SummaryStats w połączeniu z GROUP BY

	parish character varying (254)	min double precision	max double precision	mean double precision
1	Bonfim	1	159	107.5658842667906
2	Campanhã	0	178	74.66732213085449
3	Paranhos	87	158	122.52731281948482
4	Ramalde	48	108	77.5844444444444
5	União das freguesias de Aldoar, Foz do Douro e Nevogilde	-4	83	34.66735489791237
6	União das freguesias de Cedofeita, Santo Ildefonso, Sé, Miragaia, São Nicolau e Vitó	1	157	95.00277741039545
7	União das freguesias de Lordelo do Ouro e Massarelos	-1	117	49.50051440329218

ST_Value

	name character varying (48)	st_value double precision
1	Aldeia São Miguel	96
2	Alpendurada e Matos	145
3	Amarante	71
4	Baião	581
5	Cabeceiras de Basto	[null]
6	Castelo de Paiva	284
7	Celorico de Basto	227
8	Cinfães	405
9	Espinho	14

ST_TPI



Query returned successfully in 1 min 16 secs.

```
create table dec.tpi30_porto as

SELECT ST_TPI(a.rast,1) as rast

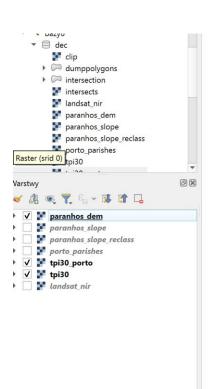
FROM rasters.dem AS a, vectors.porto_parishes AS b

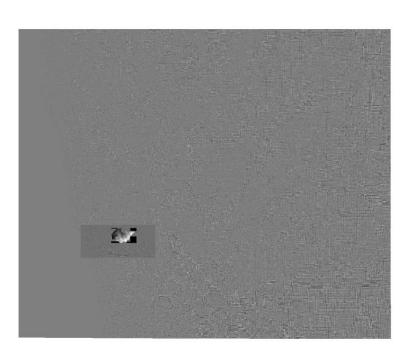
WHERE ST_Intersects(a.rast, b.geom) AND b.municipality ilike 'porto'

Data Output Messages Notifications

SELECT 25

Query returned successfully in 3 secs 388 msec.
```

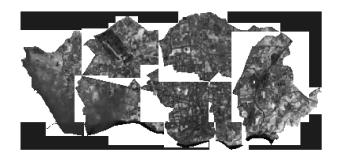




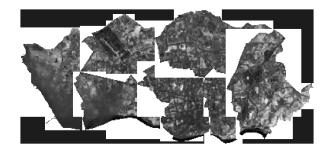
5.

Algebra map





	-	• • • • • • • • • • • • • • • • • • • •
•	- 8	porto_ndvi2
•	- 80	porto_ndvi
•	✓ 🔐	porto ndvi2
•	- 80	paranhos_dem
•	- 80	paranhos_slope
•	- 80	paranhos_slope_reclass
•	- 80	porto_parishes
•	- 80	tpi30_porto
•	- 0	tpi30
•	100	landsat_nir



6.

Eksport danych

Porto_ndvi wyeksportowane przez gdal_translate (obraz QGIS)

