

1

```

- alter table kurcaba.intersects
  add column rid SERIAL PRIMARY KEY;

- CREATE INDEX idx_intersects_rast_gist ON kurcaba.intersects
  USING gist (ST_ConvexHull(rast));

- -- schema::name table_name::name raster_column::name
  SELECT AddRasterConstraints('kurcaba'::name,
    'intersects'::name, 'rast'::name);

```

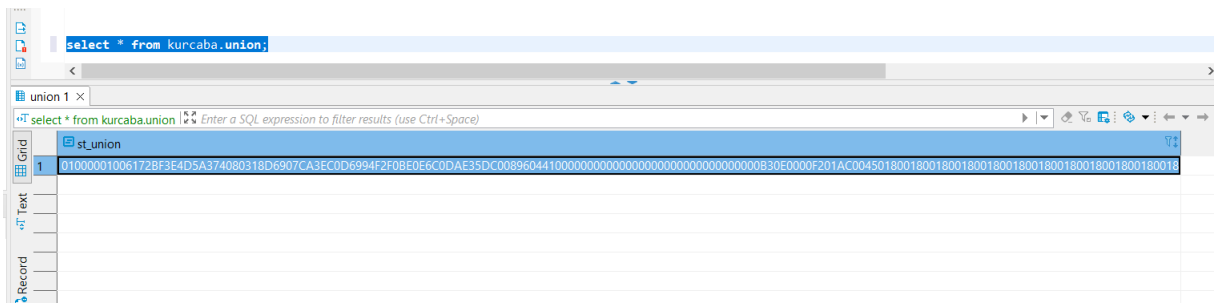
## 2

```
-- CREATE TABLE kurcaba.clip AS
SELECT ST_Clip(a.rast, b.geom, true), b.municipality
FROM rasters.dem AS a, vectors.porto_parishes AS b
WHERE ST_Intersects(a.rast, b.geom) AND b.municipality LIKE 'PORTO';

select * from kurcaba.clip;

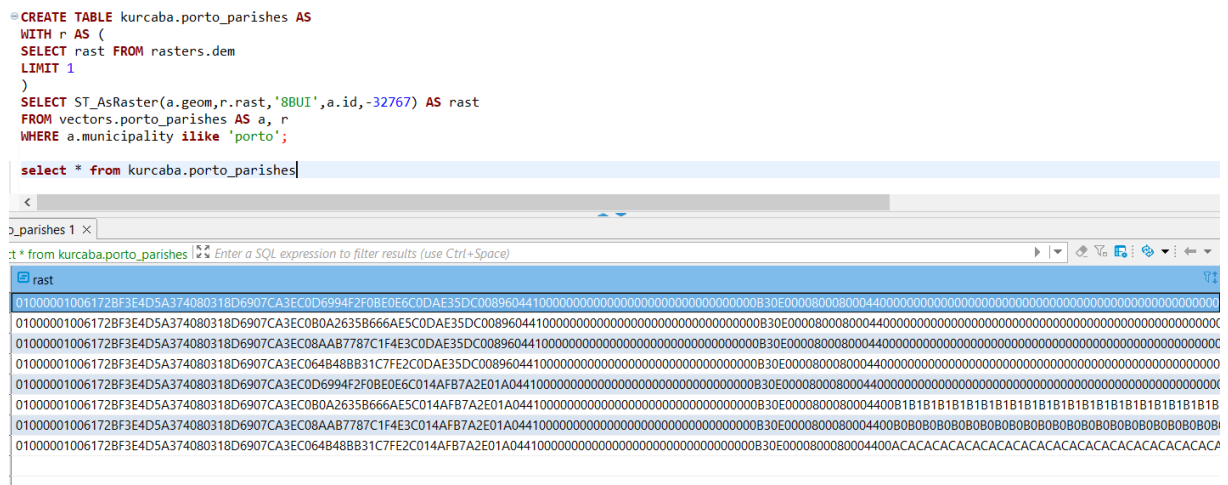
-- CREATE TABLE kurcaba.union AS
```

3.

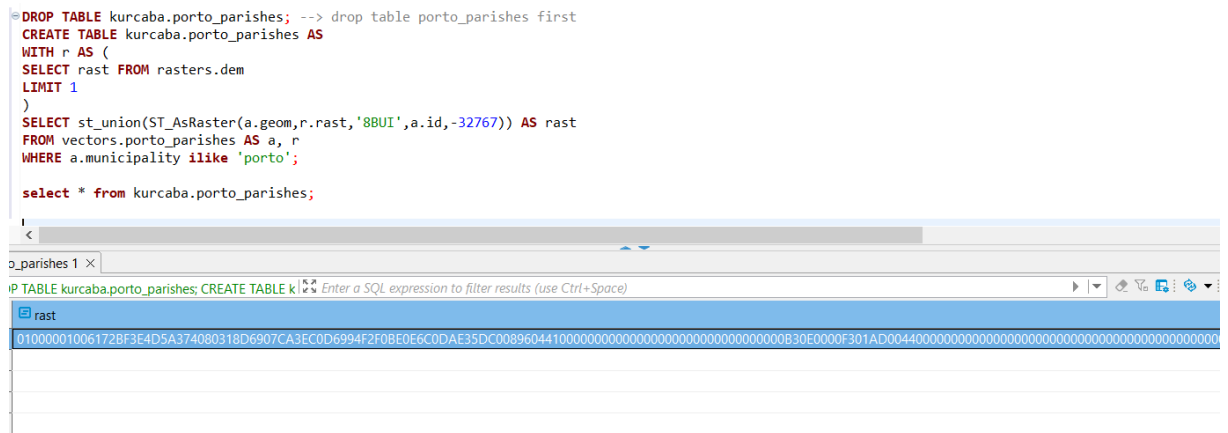


## Tworzenie rastrow z wektorów (rastrowanie)

1.



2.

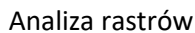


3

[illegible]

2.

```
select * from kurcaba.dumppolygons
```



```
select * from kurcaba.landsat_nir
```

2.



[illegible][illegible][illegible]

5.

SELECT st\_summarystats(a.rast) AS stats FROM kurcab

	stats						
	123 count	123 sum	123 mean	123 stddev	123 min	123 max	
1	2,616	278,385	106.4162844037	11.6226287622	87	143	
2	682	95,581	140.1480938416	12.0780721866	103	158	
3	216	31,874	147.5648148148	4.2628306283	137	158	
4	6,463	816,615	126.3523131673	14.0438229209	94	158	

6

SELECT st\_summarystats(ST\_Union(a.rast)) FROM kurc

	st_summarystats						
	123 count	123 sum	123 mean	123 stddev	123 min	123 max	
1	9,977	1,222,455	122.5273128195	16.9080042027	87	158	

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Results 1

WITH t AS ( SELECT st\_summarystats(ST\_Union(a.rast))

	123 min	123 max	123 mean	
1	87	158	122.5273128195	

8

WITH t AS ( SELECT b.parish AS parish, st\_summarystats(ST\_Union(a.rast))

	parish	123 min	123 max	123 mean	
1	Bonfim	1	159	107.5658842668	
2	Campanhã	0	178	74.6673221309	
3	Paranhos	87	158	122.5273128195	
4	Ramalde	48	108	77.5844444444	
5	União das freguesias de Aldoar, Foz do Douro e Nevogilde	-4	83	34.6673548979	
6	União das freguesias de Cedofeita, Santo Ildefonso, Sé, Miragaia, São Nicolau e Vitória	1	157	95.0027774104	
7	União das freguesias de Lordelo do Ouro e Massarelos	-1	117	49.5005144033	

Save Cancel Script 200 7 Rows: 1 7 row(s) fetched - 56ms. on 2022-11-28

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