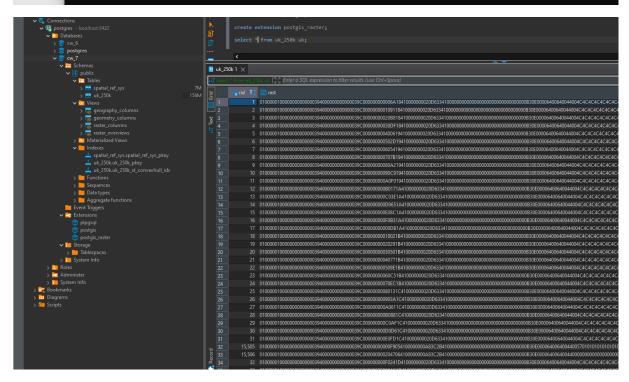


Zad. 2

 $raster 2pg sql. exe -s 3763 -N -32767 -t 100x 100 -I -C -M -d "C:\Program Files\PostgreSQL\14\bin\ras 250_gb\data*.tif" uk_250k | psql -d cw_7 -h localhost -U postgres -p 5432$

```
INSERT 0 1
CREATE INDEX
ANALYZE
NOTICE: Adding SRID constraint
NOTICE: Adding scale-X constraint
NOTICE: Adding scale-Y constraint
NOTICE: Adding blocksize-X constraint
NOTICE: Adding blocksize-Y constraint
NOTICE: Adding alignment constraint
NOTICE: Adding number of bands constraint
NOTICE: Adding pixel type constraint
NOTICE: Adding nodata value constraint
NOTICE: Adding out-of-database constraint
NOTICE: Adding maximum extent constraint
  addrasterconstraints
 (1 row)
 COMMIT
VACUUM
C:\Program Files\PostgreSQL\14\bin>_
```



```
Select * from uk_250k uk;

CREATE INDEX idx_s_rast_gist ON uk_250k
USING gist (ST_ConvexHull(rast));

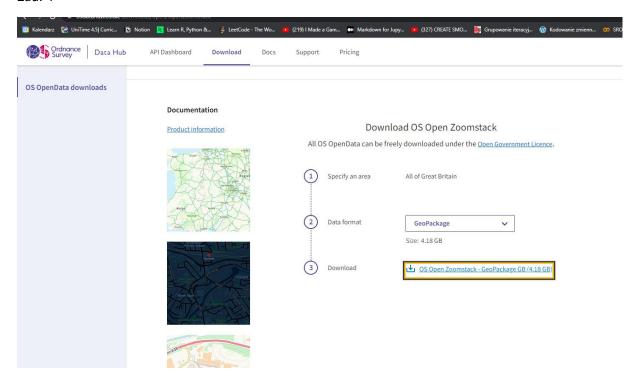
SELECT AddRasterConstraints('public'::name,
'uk_250k'::name,'rast'::name);

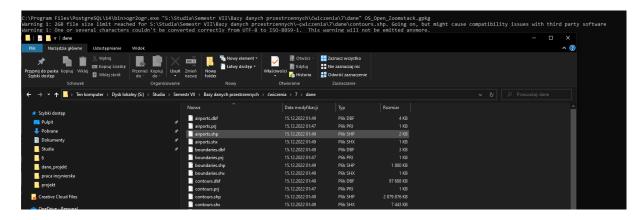
SELECT ST_Union(rast)
FROM uk_250k:

Results 1 ×

ST_STIFCT ST_Union(rast) FROM uk_250k | No. 250k | No. 250
```

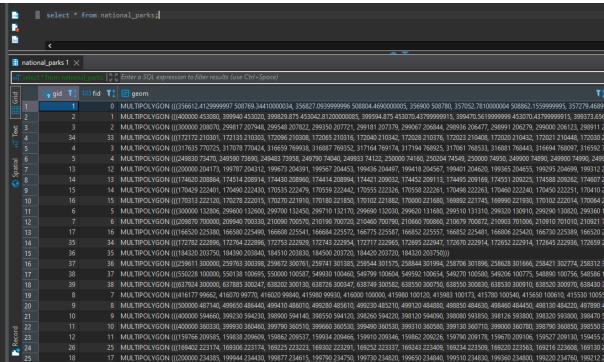
Z powodu błędu nie dało się dokończyć zadania.

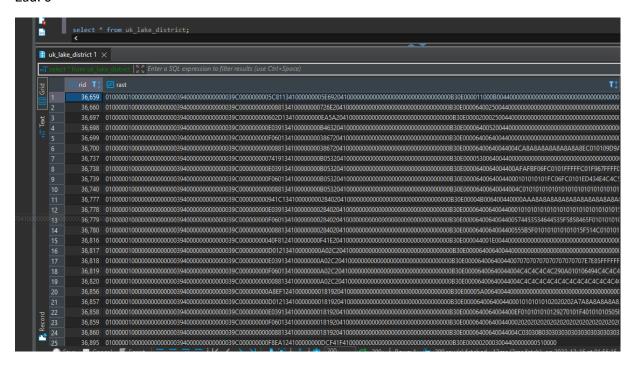


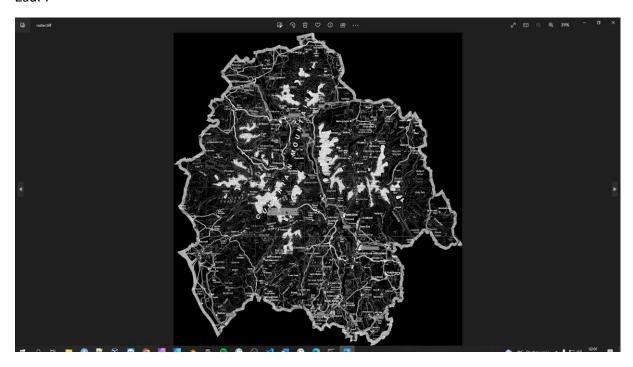


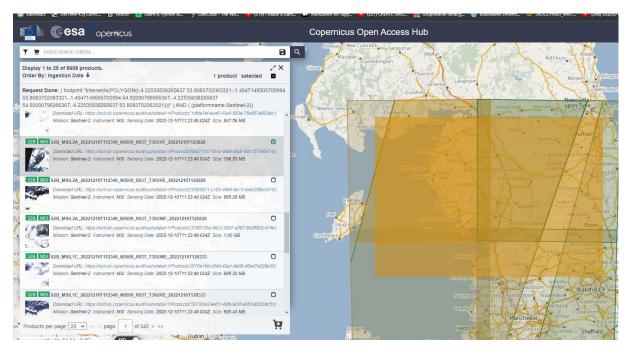
shp2pgsql -s 27700 "S:\Studia\Semestr VII\Bazy danych przestrzennych\ćwiczenia\7\dane\national_parks.shp" national_parks | psql -U postgres -h localhost -p 5432 -d cw_7

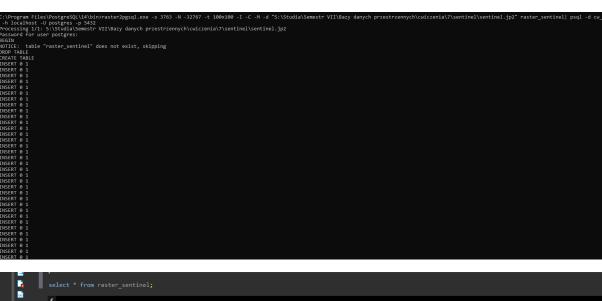


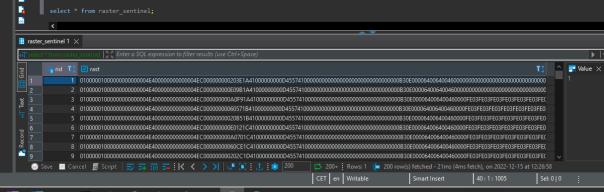












```
CREATE INDEX idx_rast_gist ON raster_sentinel
  USING gist (ST_ConvexHull(rast));
  SELECT AddRasterConstraints('public'::name, 'raster_sentinel'::name, 'rast'::name);
   ecreate or replace function ndvi(
value double precision [] [] [],
pos integer [][],
VARIADIC userangs text []
    RETURNS double precision AS
$$
BEGIN
    BEGIN

-RAISE NOTICE 'Pixel Value: %', value [1][1][1];-->For debug purposes RETURN (value [2][1][1] - value [1][1][1])/(value [2][1][1]+value [1][1][1]); --> HDVI calculation!
END;
$$

LANGUAGE 'plpgsql' IMMUTABLE COST 1000;

OCREATE TABLE ndvi AS
WITH r AS (
SELECT *
ERDM catter capture!
    )
SELECT
r.rid,ST_MapAlgebra(
r.rast, ARRAY[1,4],
'ndvi(double precision[],
integer[],text[])'::regprocedure, --> This is the function!
'33BF'::text
i i
🗎 ndvi 1 🗶
        CREATE TABLE uk_lake_district_sentinel AS
 SELECT a.rid,ST_Clip(a.rast, b.geom, true) as rast
 FROM ndvi AS a, national_parks AS b
 where b.gid = 1 and ST_Intersects(b.geom,a.rast);
```

Brak wspólnej części – powstał pusty obiekt