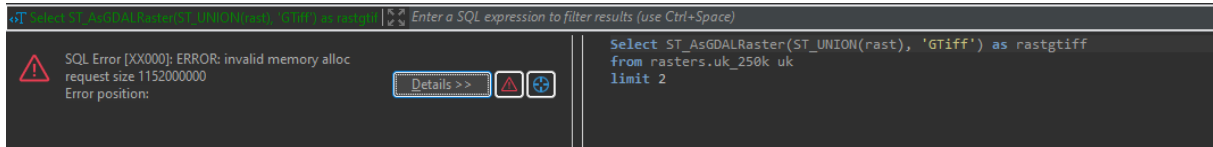


--ex2

```
raster2pgsql -e "C:\Users\48697\Downloads\ras250_gb\ras250_gb\data\*.tif" rasters.uk_250k | psql  
-d postgis_raster -h localhost -U postgres -p 5432
```

--ex3

Wystąpił problem z pamięcią



--ex5

Komenda:

```
ogr2ogr -f PostgreSQL "PG:dbname=postgis_raster"  
"C:\Users\48697\Downloads\OS_Open_Zoomstack\OS_Open_Zoomstack.gpkg" nie działała więc  
najpierw zrobiłam shp a później wrzuciłam do pgsq:
```

```
ogr2ogr -f "ESRI Shapefile" .\arbuzik.shp  
"C:\Users\48697\Downloads\OS_Open_Zoomstack\OS_Open_Zoomstack.gpkg"
```

```
shp2pgsql -e "C:\Users\48697\Downloads\arbuzik\national_parks.shp" public.uk_lake_district | psql  
-d postgis_raster -h localhost -U postgres -p 5432
```

później trzeba było jeszcze ustawić odpowiedni srid:

```
select st_srid(geom) from public.uk_lake_district ;  
select st_Transform(geom, 4326) from uk_lake_district;  
update uk_lake_district set geom = st_setsrid(geom, 27700);
```

--ex6

```
create table uk_lake_district as  
select st_union(st_clip(uk.rast, uld.geom))  
from rasters.uk_250k uk  
inner join public.uk_lake_district uld on st_intersects(uld.geom, uk.rast)  
where uld.gid = 1;
```

-- ex7

```
CREATE TABLE tmp_out AS  
SELECT lo_from_bytea(0,  
ST_AsGDALRaster(ST_Union(st_clip(uk.rast, uld.geom)), 'GTiff', ARRAY['COMPRESS=DEFLATE',  
'PREDICTOR=2', 'PZLEVEL=9']))  
) AS loid  
from rasters.uk_250k uk inner join public.uk_lake_district uld on st_intersects(uld.geom, uk.rast) where uld.gid = 1;  
SELECT lo_export(loid, 'C:\Users\48697\Downloads\national_park.tiff') FROM tmp_out;  
SELECT lo_unlink(loid)  
FROM tmp_out;  
drop table tmp_out;
```

Problem z dostępem:



SQL Error [42501]: ERROR: could not create server file "C:\Users\48697\Downloads\national\_park.tiff": Permission denied

--ex 9

raster2pgsql -e -t 8192x8192

"C:\Users\48697\Downloads\S2B\_MSIL1C\_20221130T112329\_N0400\_R037\_T30UVF\_20221130T120448\S2B\_MSIL1C\_20221130T112329\_N0400\_R037\_T30UVF\_20221130T120448.SAFE\GRANULE\L1C\_T30UVF\_A029950\_20221130T112331\IMG\_DATA\\*.jp2" rasters.sentinel | psql -d postgis\_raster -h localhost -U postgres -p 5432

--ex10and11

```
CREATE TABLE public.ndwi AS
WITH r AS (
  select st_clip(s.rast, st_transform(uld.geom, 32630)) as rast from rasters.sentinel s inner join public.uk_lake_district uld on st_intersects(st_transform(uld.geom, 32630), s.rast) where uld.gid = 1
)
SELECT
  ST_MapAlgebra(
    r.rast, 1,
    r.rast, 4,
    '([rast2.val] - [rast1.val]) / ([rast2.val] + [rast1.val])::float', '32BF'
  ) AS rast
FROM r
```

Kolejny problem wczytaniu tabeli z indeksem NDWI



SQL Error [53200]: Ran out of memory retrieving query results.

[Details >>](#)

