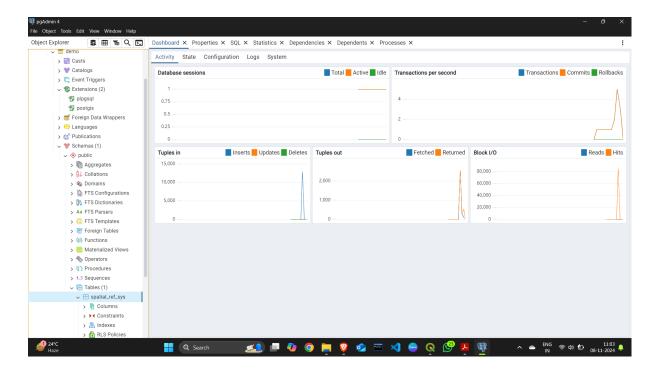
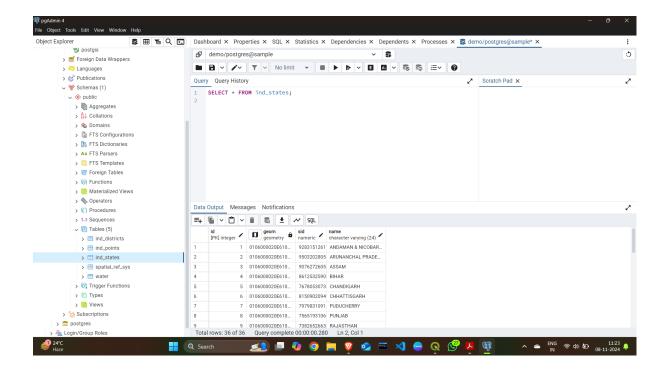
# Lab-4

#### 2021101107

# 1. PgAdmin with spatial reference systems

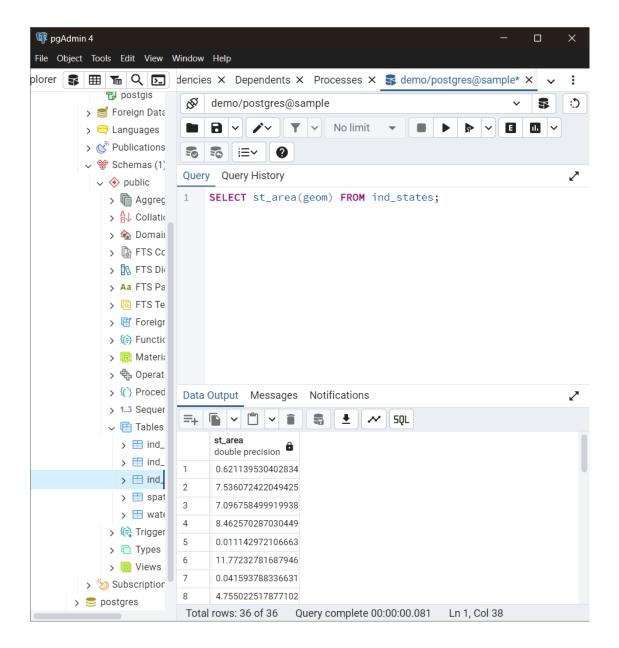


**Table view of State Data (Simple query)** 

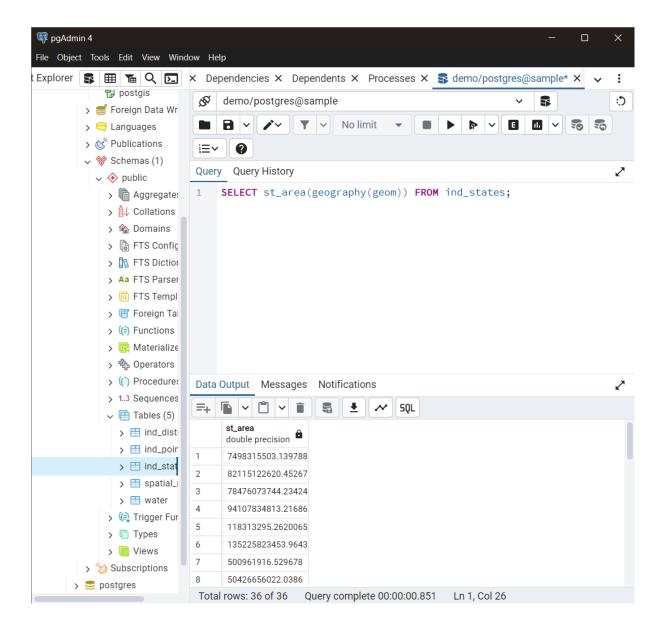


# **QUERIES**

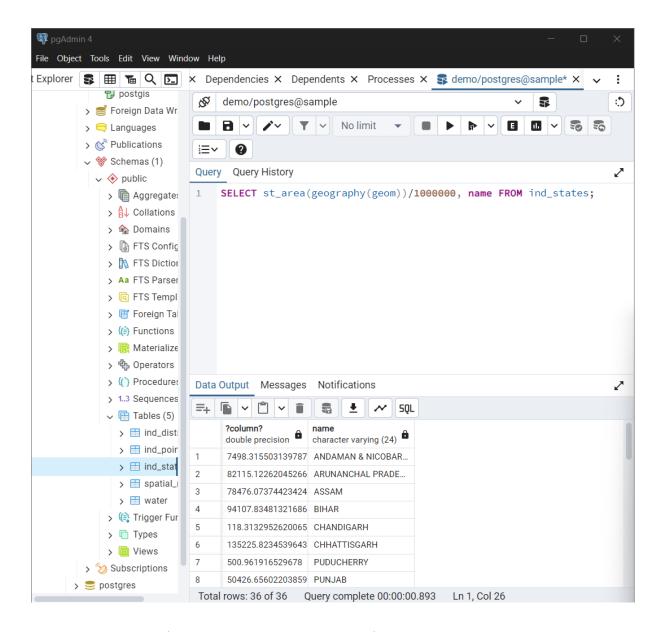
1. SELECT st\_area(the\_geom) FROM ind\_states; (displays in radians)



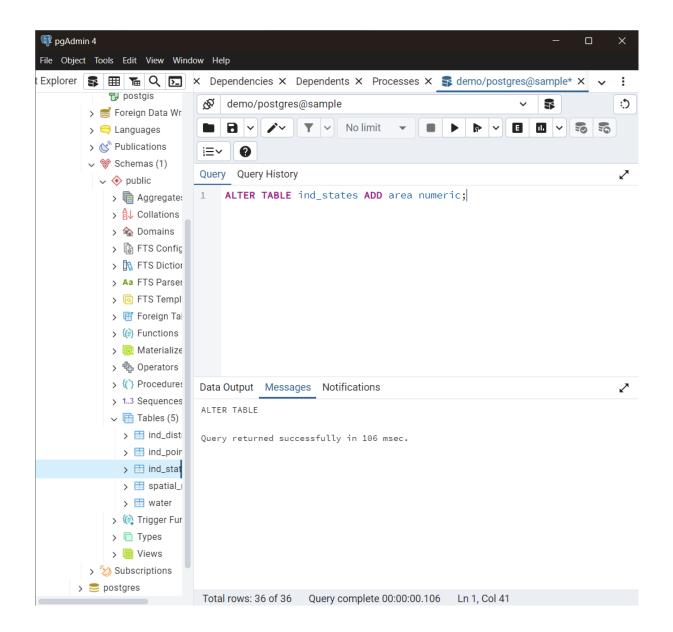
2. SELECT st\_area(geography(the\_geom)) FROM ind\_states; (displays in m^2)



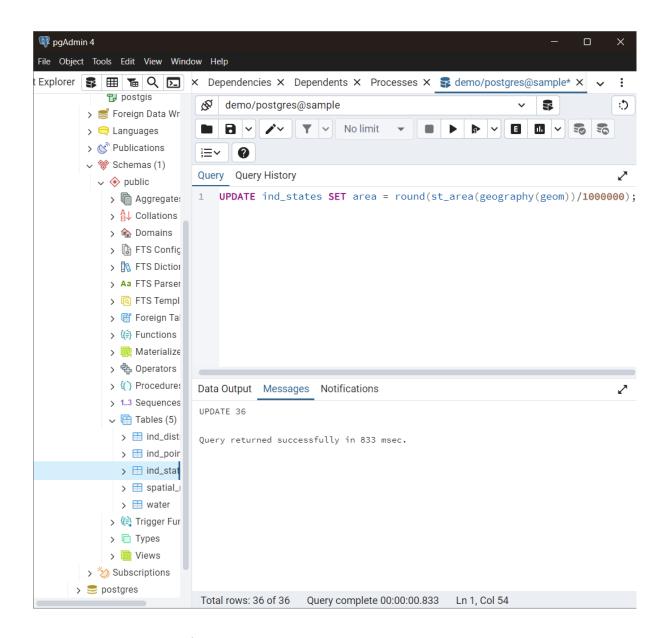
3. SELECT st\_area(geography(the\_geom))/1000000, name FROM ind\_states; (displays in km^2)



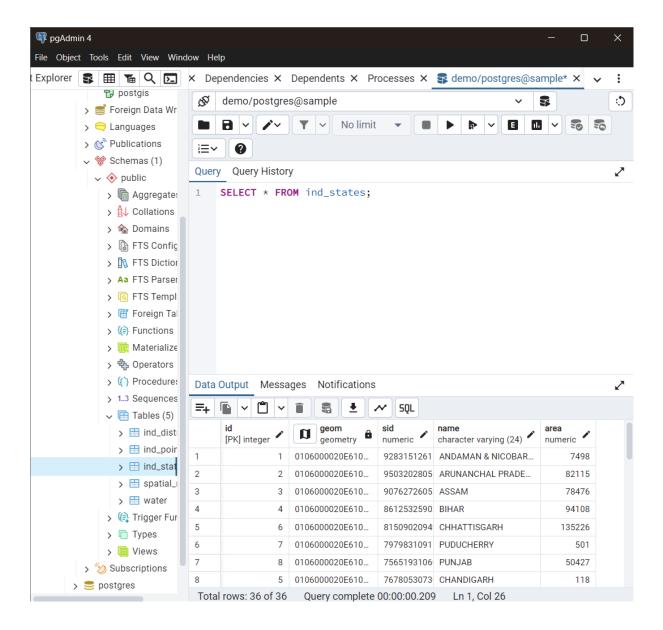
4. ALTER TABLE ind\_states ADD area numeric;



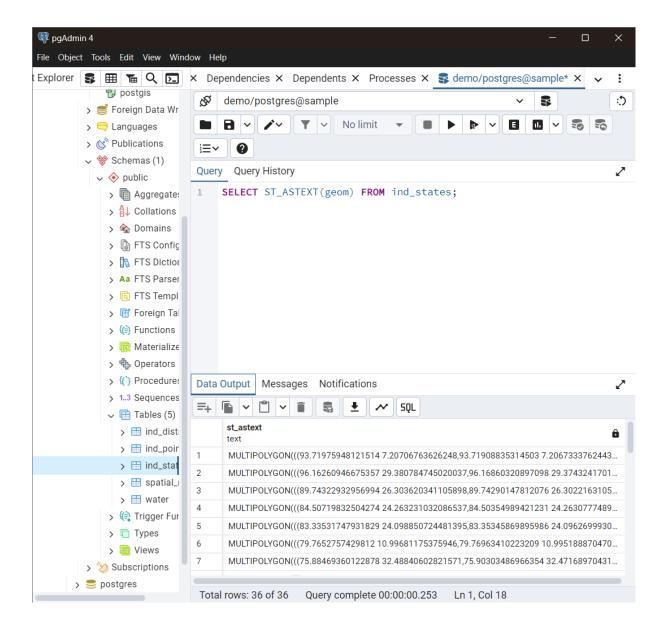
5. UPDATE ind\_states SET area = round(st\_area(geography(the\_geom))/1000000);



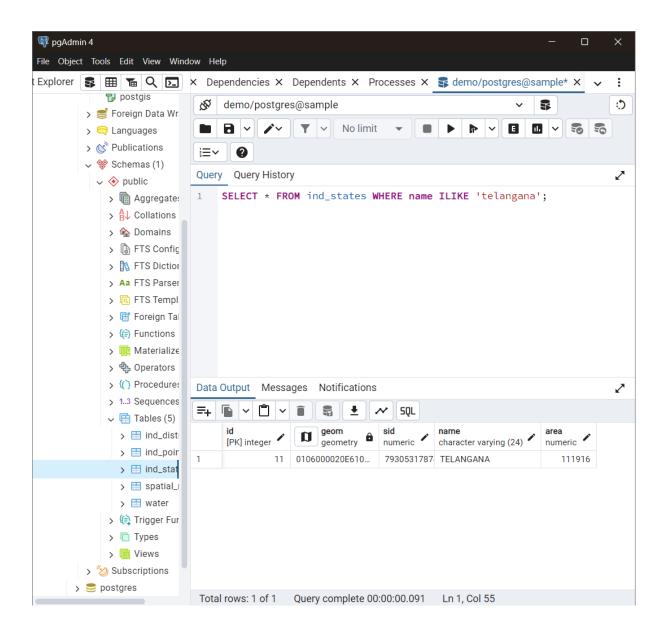
#### 6. SELECT \* FROM ind\_states;



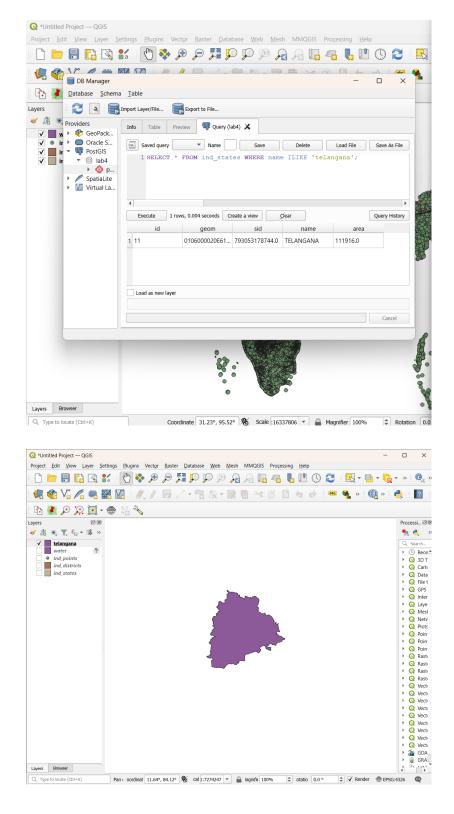
SELECT ST\_ASTEXT(the\_geom) FROM ind\_states;



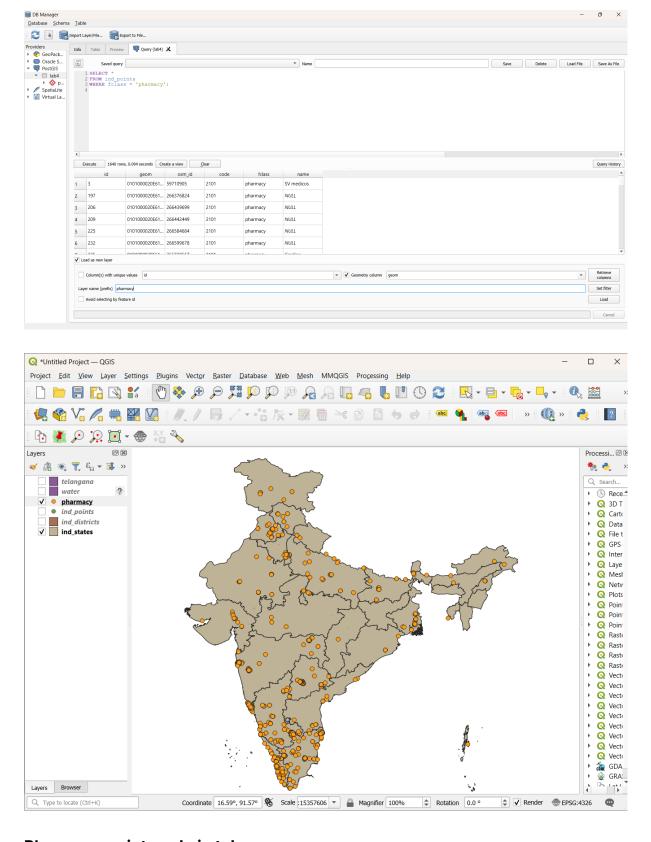
8. SELECT \* FROM ind\_states WHERE name ILIKE 'telangana';



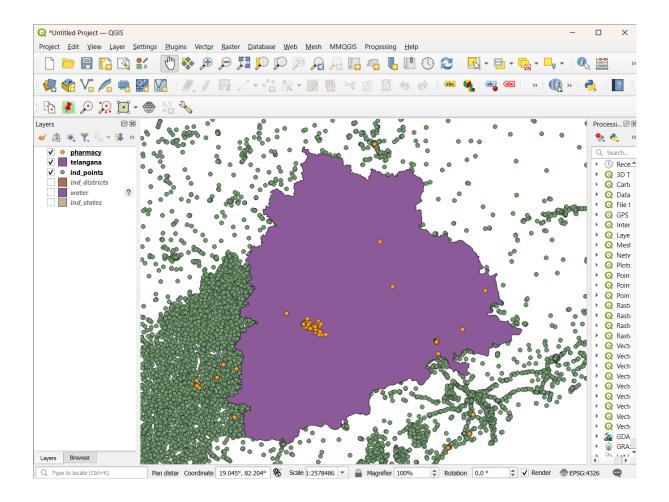
# Visualise query output in QGIS



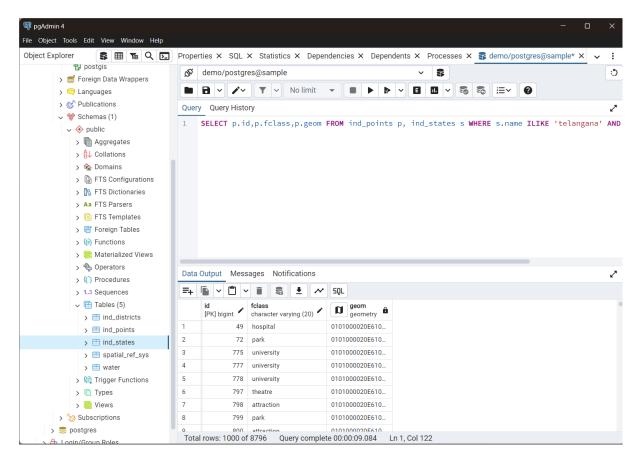
#### VISUALISING PHARMACY POINTS

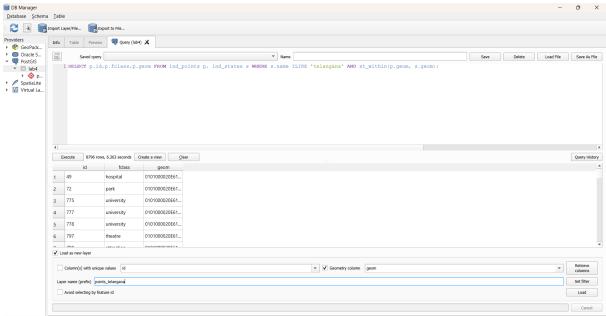


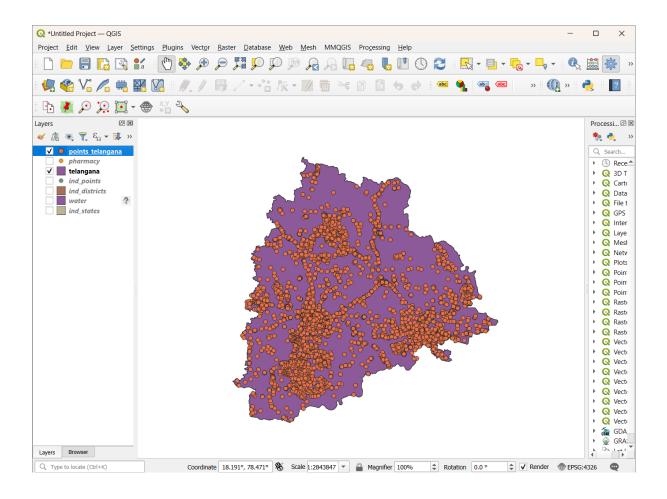
### Pharmacy points only in telangana-



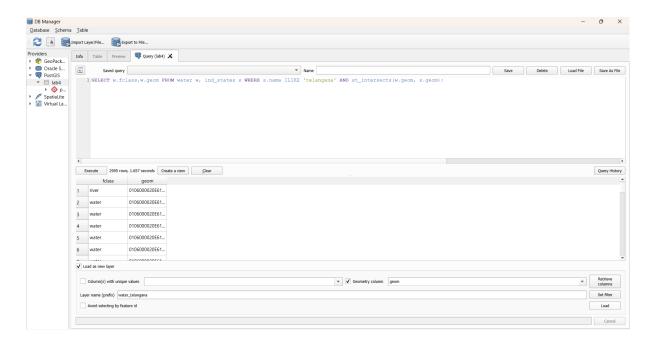
## Visualising all types of points in telangana boundary:

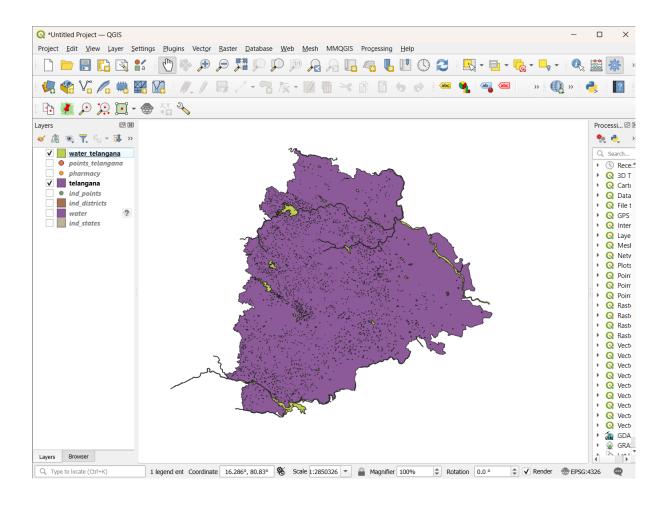






### Visualising water bodies in telangana-





### Visualising districts in telangana:

