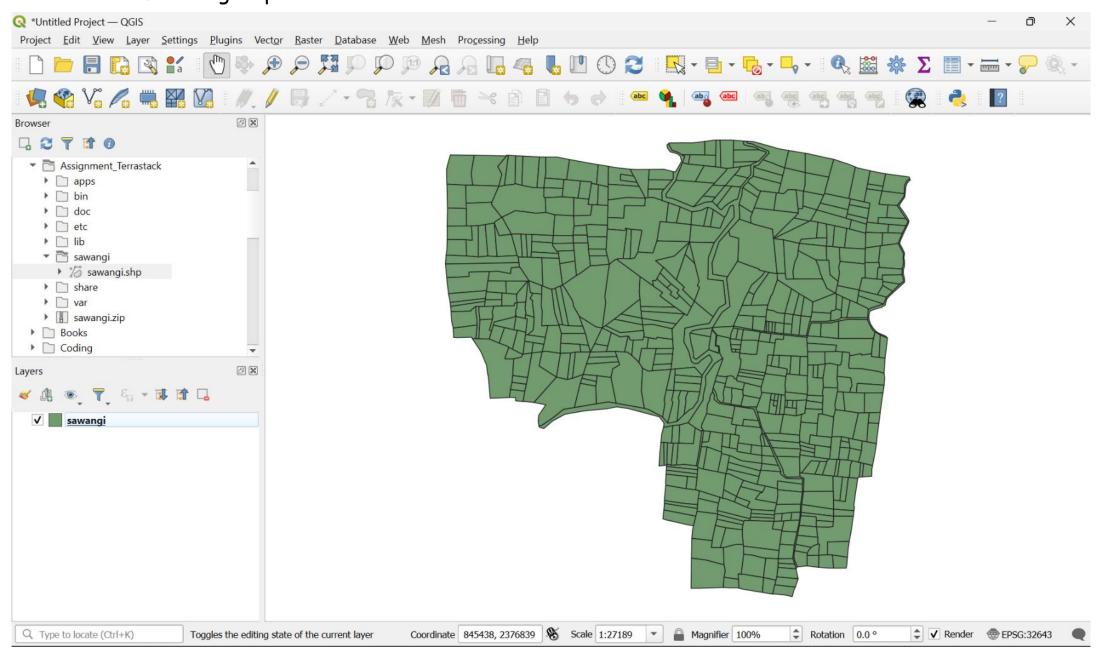
# TERRASTACK ASSIGNMENT REPORT

### Part 1:

# Screenshot of sawangi.shp



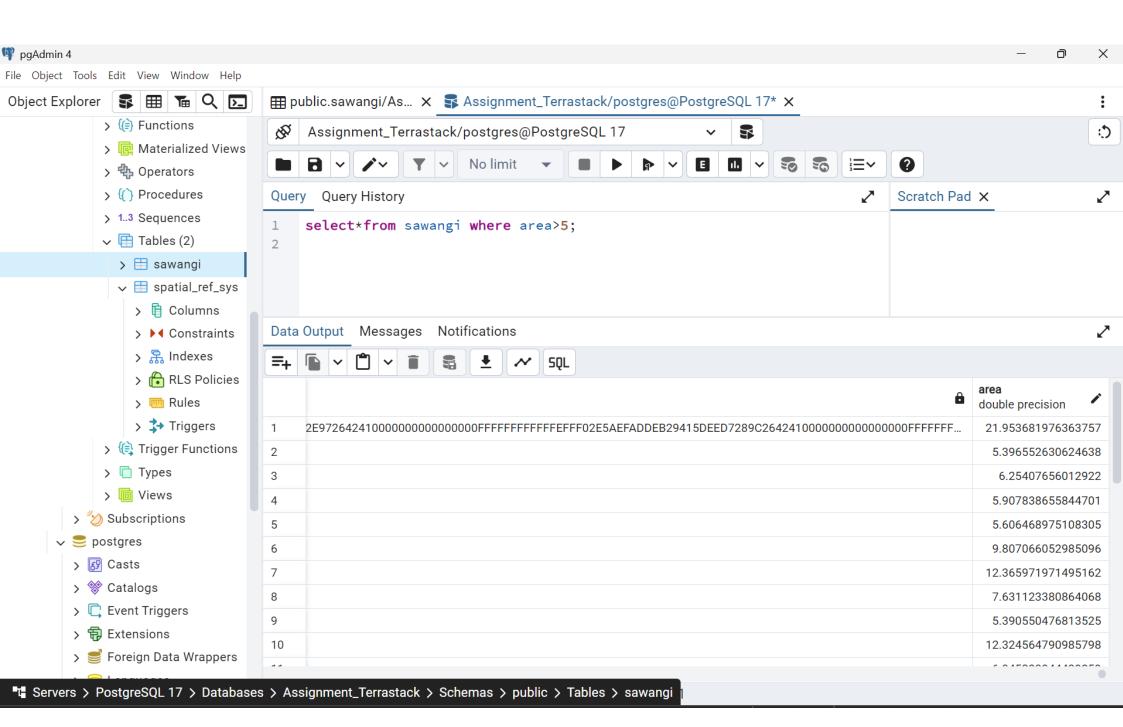
Part 2:
Description of Columns and their Datatypes

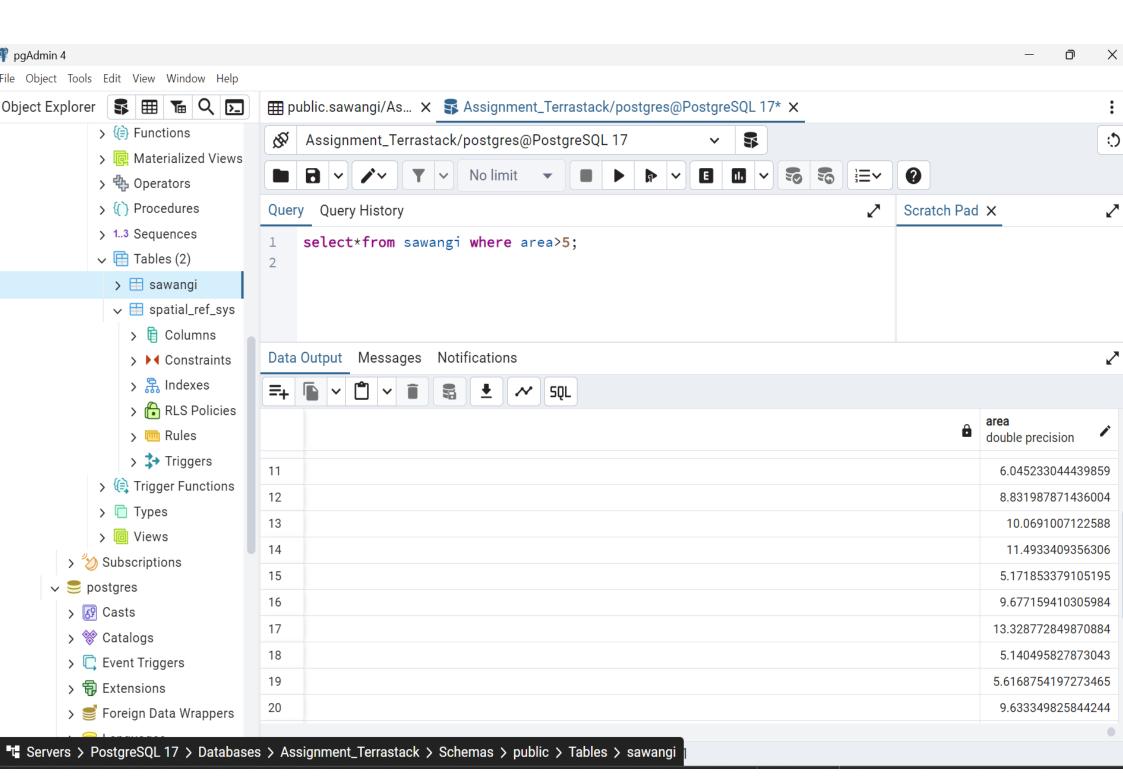
Assignment_Terrastack=# \d sawangi Table "public.sawangi"				
Column	Туре	Collation		Default
	integer double precision character varying(18) character varying(20) character varying(3) character varying(5) character varying(6) character varying(30) character varying(254) character varying(254) character varying(6) character varying(6) character varying(8) character varying(50) character varying(50) character varying(50) character varying(50) peometry(MultiPolygonZM)  gi_pkey" PRIMARY KEY, btree	(gid)	not null	nextval('sawangi_gid_seq'::regclass)

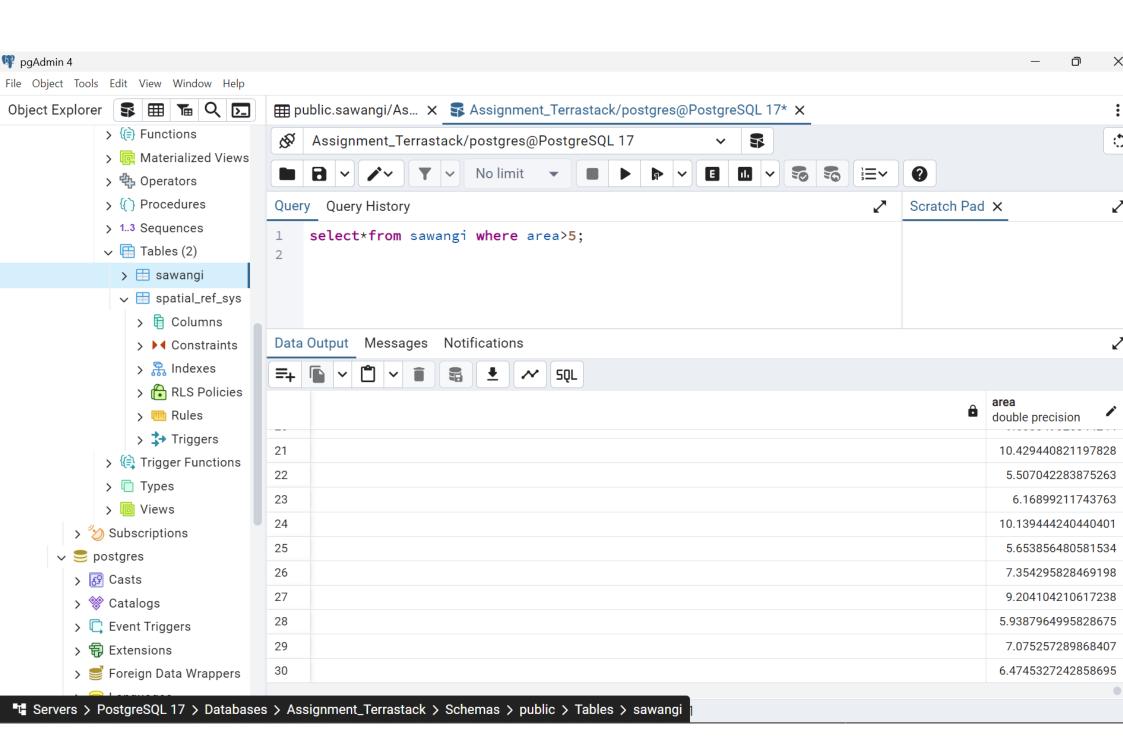
## Part 3.1:

Firstly, I have created a new column area and then I used the ST\_Area function to calculate the area of each polygon from its geometry values. I further divided the area values by 10000 to convert the area into Hectares. There are a total of 30 polygons whose area is greater than 5Ha.

```
Assignment_Terrastack=# alter table sawangi
Assignment_Terrastack-# add area double precision;
ALTER TABLE
Assignment_Terrastack=# \d sawangi;
                                      Table "public.sawangi"
                                                                             Default
  Column
                                       Collation | Nullable |
                      Type
 qid
            integer
                                                   not null | nextval('sawangi_gid_seg'::regclass)
            double precision
 __gid
 ccode
            character varying(18)
 pin
            character varying(20)
            character varying(3)
 dtncode
 thncode
            character varying(5)
 vincode
            character varying(6)
 vil_name
            character varying(30)
            character varying(254)
 dtname
 thname
            character varying(254)
 cncode11 | character varying(6)
           character varying(8)
 cncode01
 lad_code
            character varying(50)
 ef_code
            character varying(50)
            geometry(MultiPolygonZM)
 geom
            double precision
 area
Indexes:
    "sawangi_pkey" PRIMARY KEY, btree (gid)
    "sawangi_geom_idx" gist (geom)
Assignment_Terrastack=# update sawangi
Assignment_Terrastack-# set area=ST_Area(geom);
UPDATE 501
Assignment_Terrastack=# update sawangi
Assignment_Terrastack-# set area=area/10000;
UPDATE 501
```







#### Part 3.2

Total number of columns with pin as null were 17.

Assignment\_Terrastack=# delete from sawangi where pin is null; DELETE 17

#### Part 3.3

Total Perimeter of Sawangi Village=36482.401 sq. meters

