Zad 0

```
C:\Program Files\PostgreSQL\14\bin>shp2pgsql -D -I C:/Users/THINK/Desktop/qgis_sample_data/shapefiles/trees.shp trees |
psql -U postgres -h localhost -p 5432 -d cw4
```

```
C:\Program Files\PostgreSQL\14\bin>shp2pgsql -D -I C:/Users/THINK/Desktop/qgis_sample_data/shapefiles/regions.shp regions |
psql -U postgres -h localhost -p 5432 -d cw4
```

```
C:\Program Files\PostgreSQL\14\bin>shp2pgsql -D -I C:/Users/THINK/Desktop/qgis_sample_data/shapefiles/railroads.shp railroad
s | psql -U postgres -h localhost -p 5432 -d cw4
```

```
C:\Program Files\PostgreSQL\14\bin>shp2pgsql -D -I C:/Users/THINK/Desktop/qgis_sample_data/shapefiles/airports.shp airports
| psql -U postgres -h localhost -p 5432 -d cw4
```

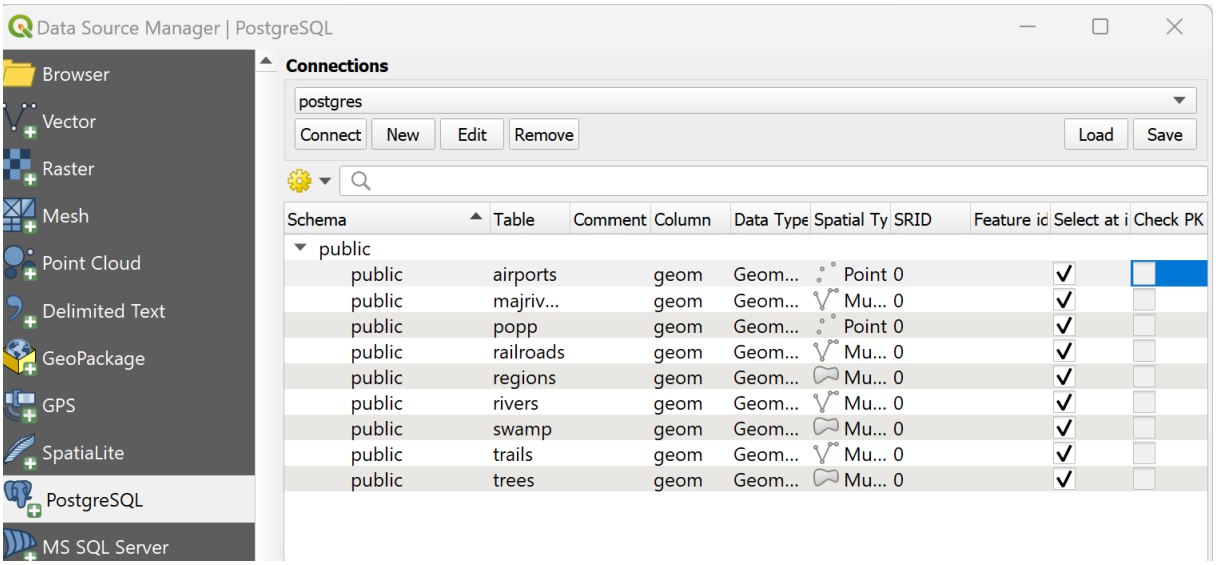
```
C:\Program Files\PostgreSQL\14\bin>shp2pgsql -D -I C:/Users/THINK/Desktop/qgis_sample_data/shapefiles/popp.shp popp | psql -
U postgres -h localhost -p 5432 -d cw4
```

```
C:\Program Files\PostgreSQL\14\bin>shp2pgsql -D -I C:/Users/THINK/Desktop/qgis_sample_data/shapefiles/rivers.shp rivers | ps
ql -U postgres -h localhost -p 5432 -d cw4
```

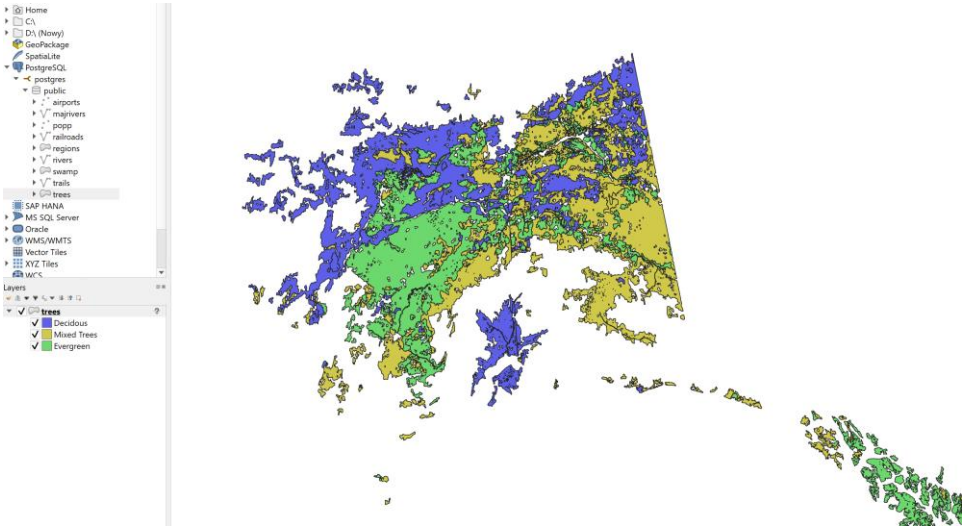
```
C:\Program Files\PostgreSQL\14\bin>shp2pgsql -D -I C:/Users/THINK/Desktop/qgis_sample_data/shapefiles/majrivers.shp majriver
s | psql -U postgres -h localhost -p 5432 -d cw4
```

```
C:\Program Files\PostgreSQL\14\bin>shp2pgsql -D -I C:/Users/THINK/Desktop/qgis_sample_data/shapefiles/trails.shp trails | ps
ql -U postgres -h localhost -p 5432 -d cw4
```

```
C:\Program Files\PostgreSQL\14\bin>shp2pgsql -D -I C:/Users/THINK/Desktop/qgis_sample_data/shapefiles/swamp.shp swamp | psql
 -U postgres -h localhost -p 5432 -d cw4
```



Zad 1



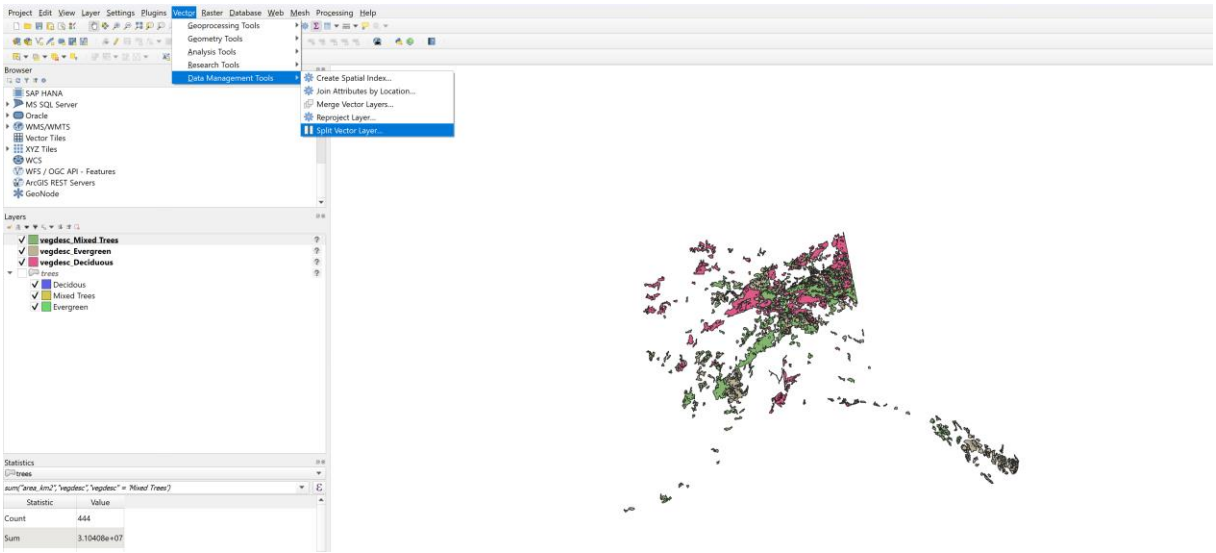
Statistics

trees

sum("area_km2","vegdesc","vegdesc" = 'Mixed Trees')

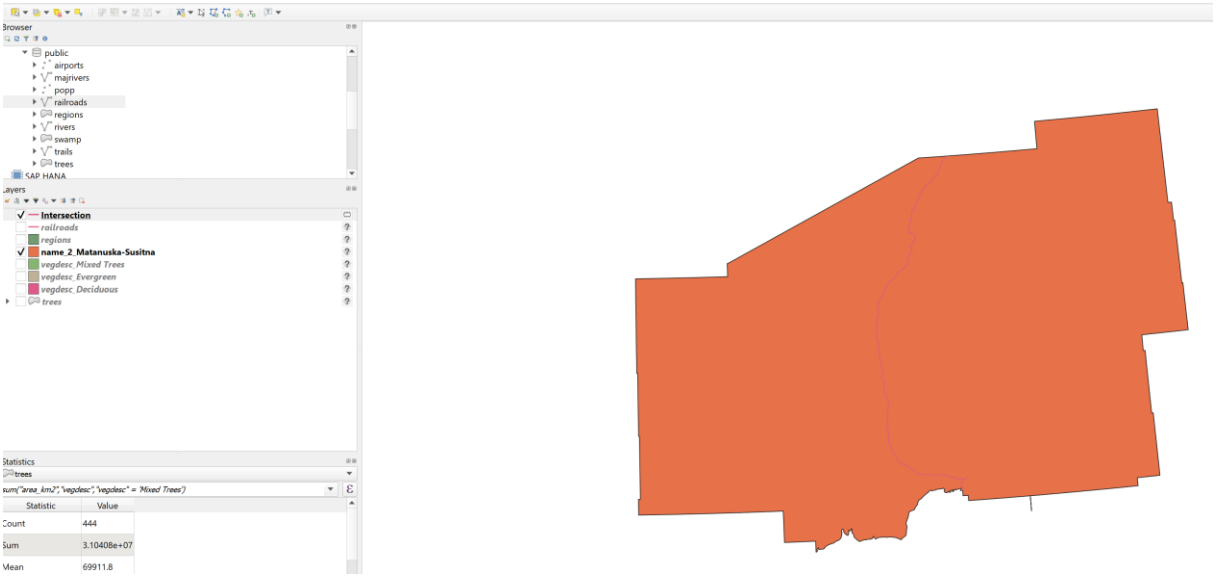
Statistic	Value
Count	444
Sum	3.10408e+07

Zad 2



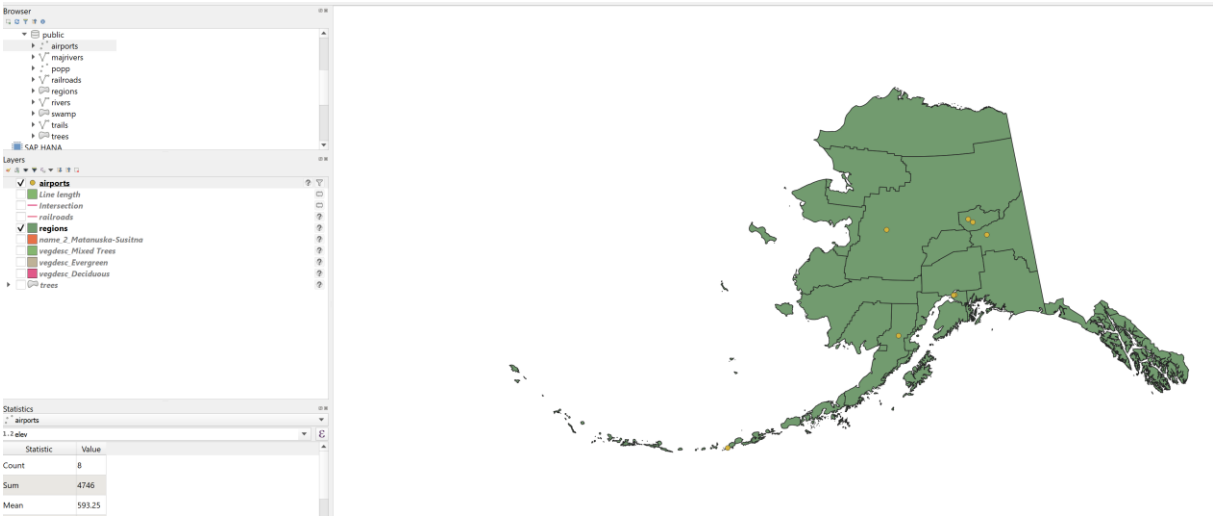
Część danych została pominięta, ze względu na błąd geometrii.

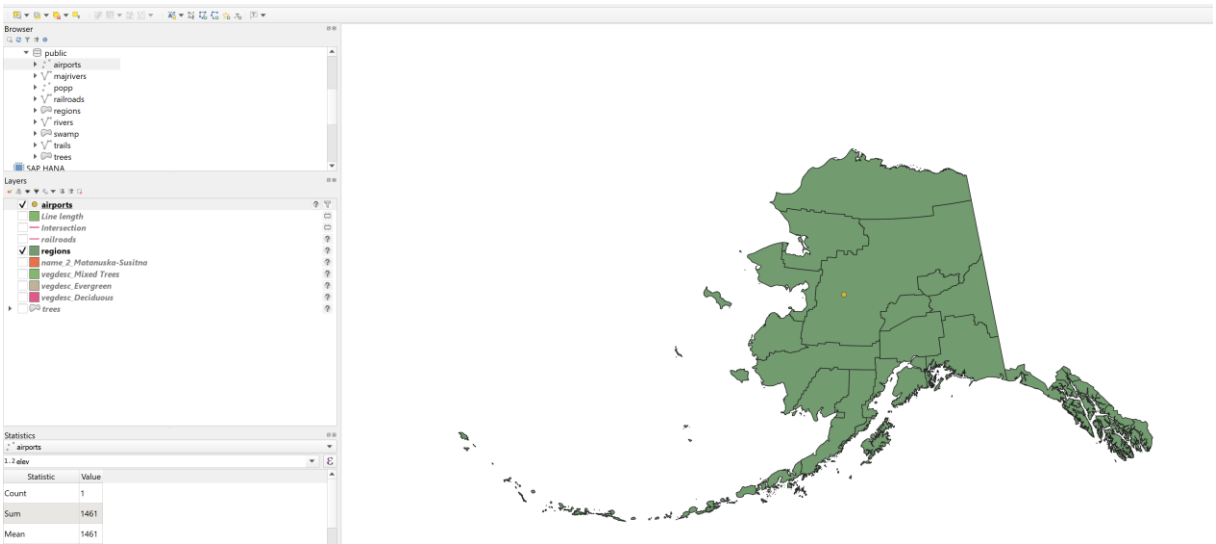
Zad 3



LENGTH
880923,7543681661

Zad 4

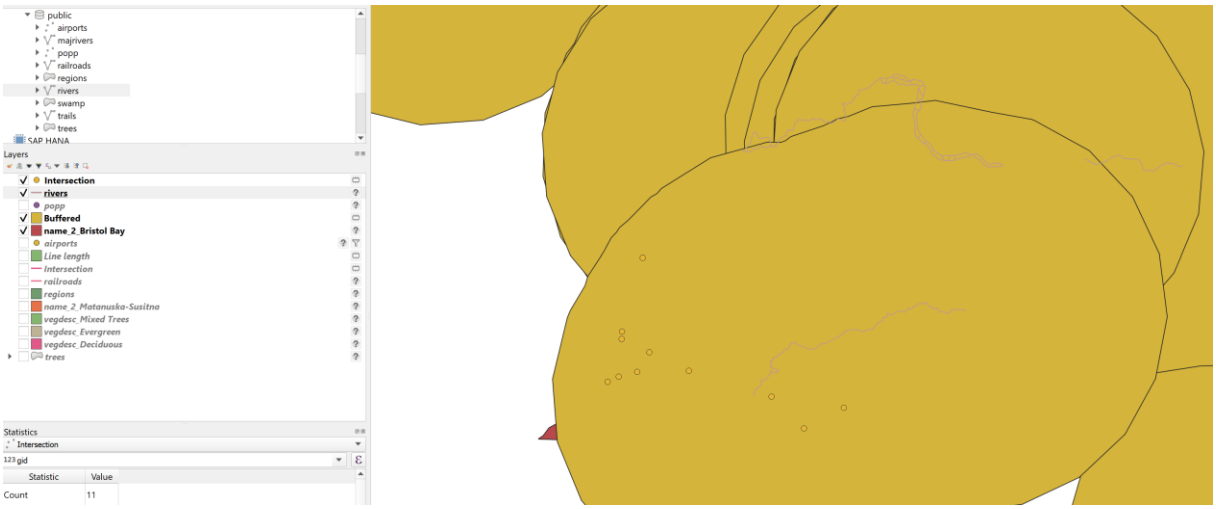




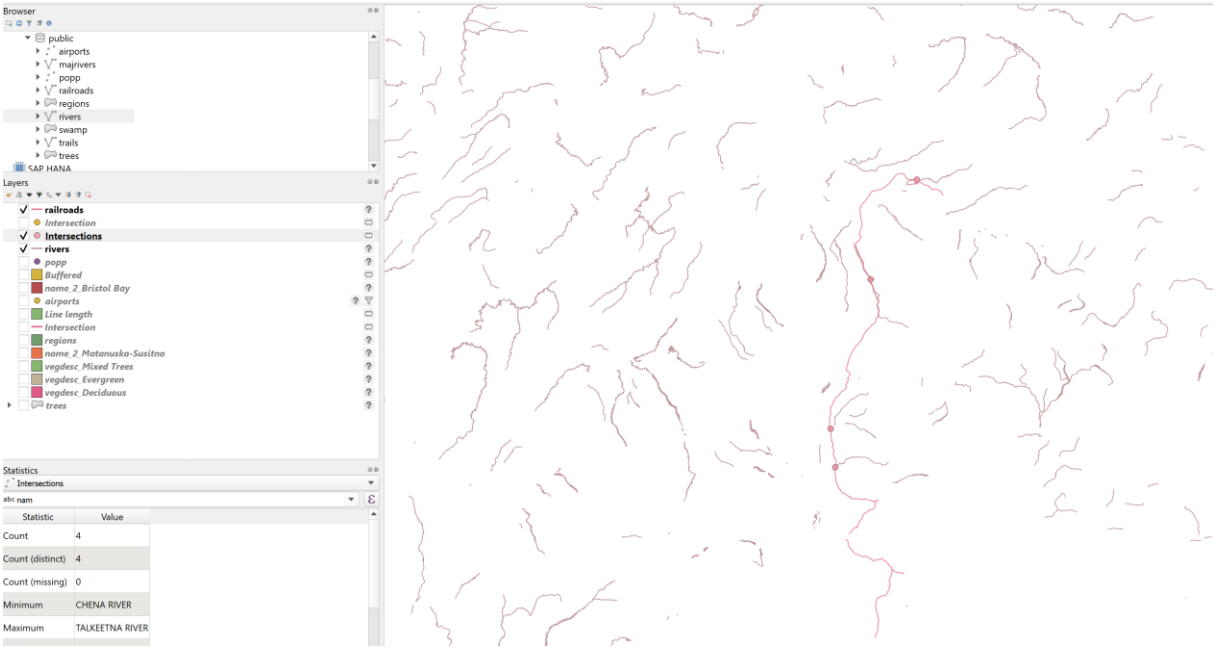
Zad 5

Browser
public
airports
majrivers
popp
railroads
regions
rivers
swamp
trails
trees
SAP HANA
Layers
Intersection
popp
name_2_Bristol Bay
airports
Line length
Intersection
railroads
regions
name_2_Matanuska-Susitna
vegdesc_Mixed Trees
vegdesc_Evergreen
vegdesc_Deciduous
trees
Statistics
Intersection
123 gid
Statistic
Value
Count
11

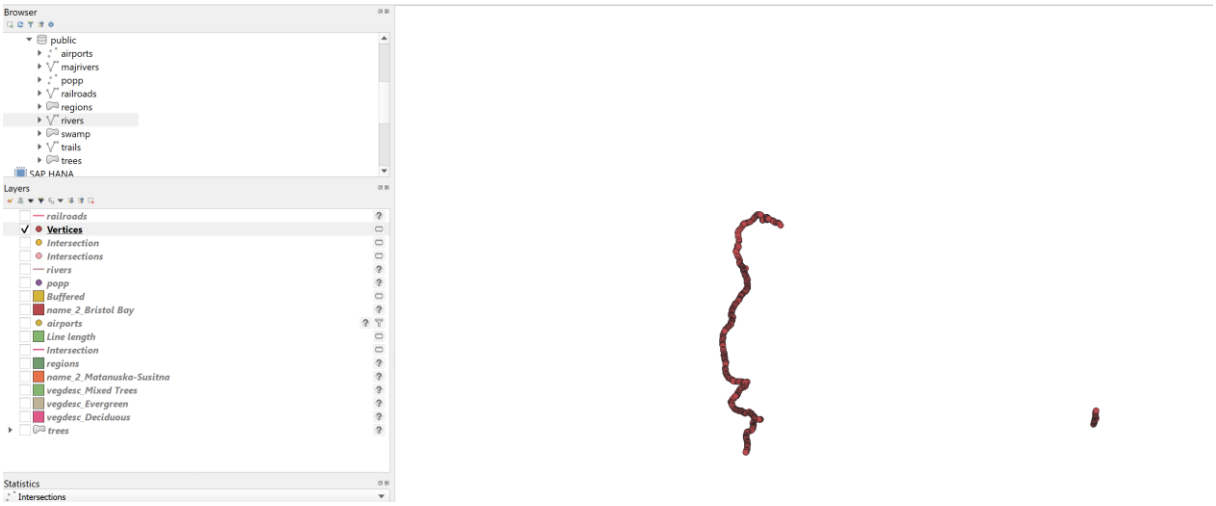
Zad 6

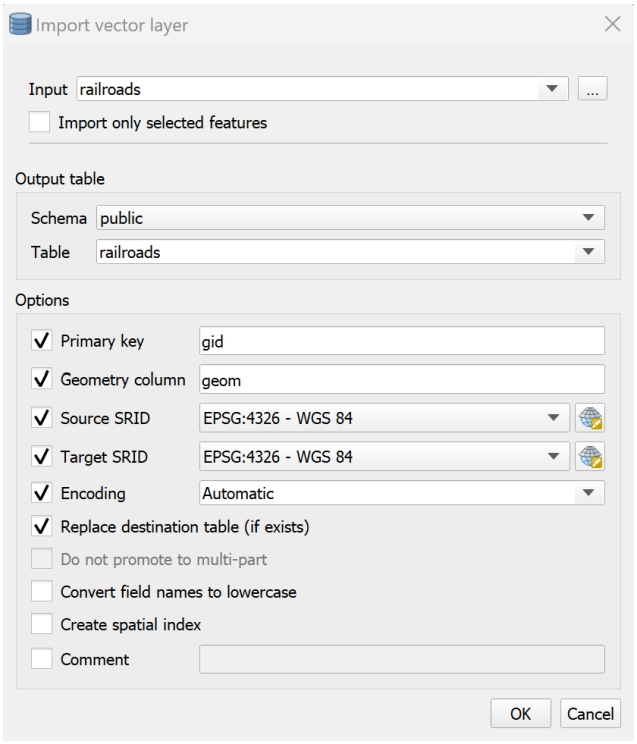

public
airports
majrivers
popp
railroads
regions
rivers
swamp
trails
trees
SAP HANA
Layers
Intersection
rivers
popp
Buffered
name_2_Bristol Bay
airports
Line length
Intersection
railroads
regions
name_2_Matanuska-Susitna
vegdesc_Mixed Trees
vegdesc_Evergreen
vegdesc_Deciduous
trees
Statistics
Intersection
123 gid
Statistic
Value
Count
11

Zad 7

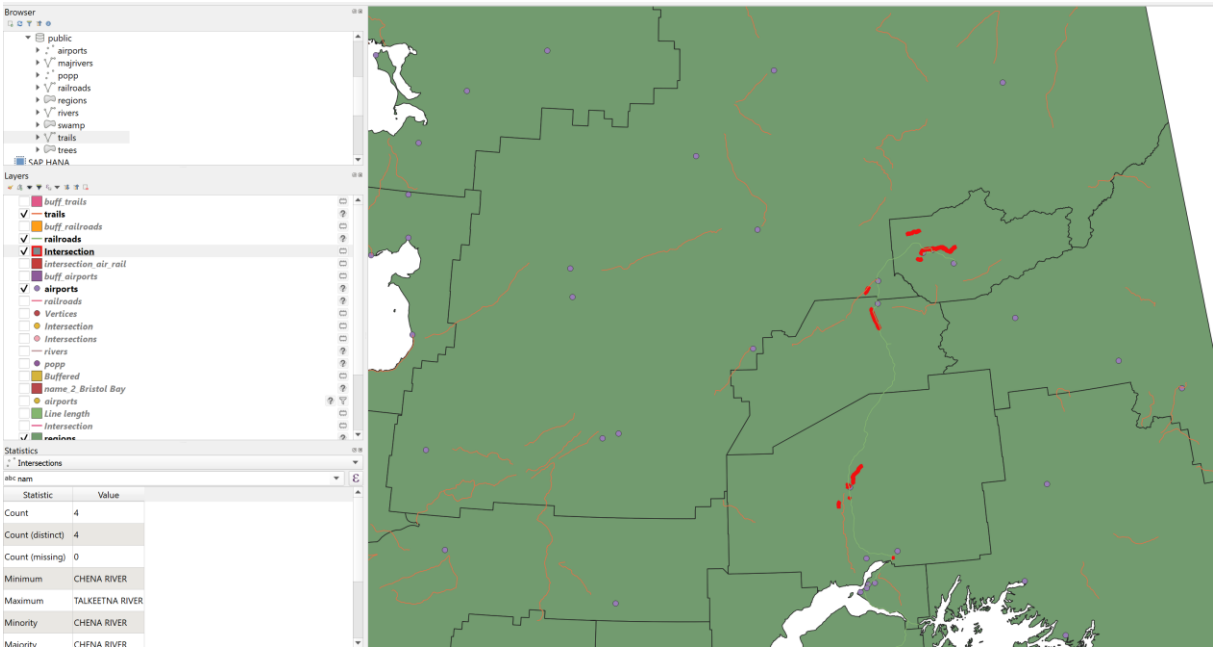

Browser
public
airports
majrivers
popp
railroads
regions
rivers
swamp
trails
trees
SAP HANA
Layers
railroads
Intersection
Intersections
rivers
popp
Buffered
name_2_Bristol Bay
airports
Line length
Intersection
regions
name_2_Matanuska-Susitna
vegdesc_Mixed Trees
vegdesc_Evergreen
vegdesc_Deciduous
trees
Statistics
Intersections
abc nam
Statistic
Value
Count
4
Count (distinct)
4
Count (missing)
0
Minimum
CHENA RIVER
Maximum
TALKEETNA RIVER

Zad 8


Browser
public
airports
majrivers
popp
railroads
regions
rivers
swamp
trails
trees
SAP HANA
Layers
railroads
Vertices
Intersection
Intersections
rivers
popp
Buffered
name_2_Bristol Bay
airports
Line length
Intersection
regions
name_2_Matanuska-Susitna
vegdesc_Mixed Trees
vegdesc_Evergreen
vegdesc_Deciduous
trees
Statistics
Intersections


Import vector layer
Input
railroads
Import only selected features
Output table
Schema
public
Table
railroads
Options
Primary key
gid
Geometry column
geom
Source SRID
EPSG:4326 - WGS 84
Target SRID
EPSG:4326 - WGS 84
Encoding
Automatic
Replace destination table (if exists)
Do not promote to multi-part
Convert field names to lowercase
Create spatial index
Comment
OK
Cancel

Zad 9


Browser
public
airports
majrivers
popp
railroads
regions
rivers
swamp
trails
trees
SAP HANA
Layers
buff_trails
trails
buff_railroads
railroads
intersection
intersection_air_rail
buff_airports
airports
railroads
Vertices
intersection
intersections
rivers
popp
Buffered
name_2_Bristol Bay
airports
Line length
intersection
Statistics
Intersections
Statistic
Value
Count
4
Count (distinct)
4
Count (missing)
0
Minimum
CHENA RIVER
Maximum
TALKEETNA RIVER
Minority
CHENA RIVER

Zad 10

Przed:

Statistics

swamp

1.2 areakm2

Statistic	Value
Count	69
Sum	24719.8
Mean	358.257
Median	207.046
St dev (pop)	463.808
St dev (sample)	467.206
Minimum	104.141
Maximum	2679.68
Range	2575.54

Statistics

Vertices

123 gid

Statistic	Value
Count	7469

Po:

Statistics

Simplified

1.2 areakm2

Statistic	Value
Count	69
Sum	24719.8
Mean	358.257
Median	207.046
St dev (pop)	463.808
St dev (sample)	467.206
Minimum	104.141
Maximum	2679.68
Range	2575.54

Statistics

Vertices

123 gid

Statistic	Value
Count	6661