Rickardo Henry
IS380
Mini Project: Create a Choropleth Density Map from the Data you Acquired in part I

Hi Professor,

Thank you for your guidance in regard to my questions and concerns.

I did follow your directions to create a Choropleth Density Map from the Data Acquired from my last assignment.

The question I've have chosen was based on your feedback "**total perimeter of the waterways in each state"**

Based on your recommendations I've added the following layer "**tl_2017_us_state**" to my assignment. The layer introduced the State two-digit code as well as the full state name.

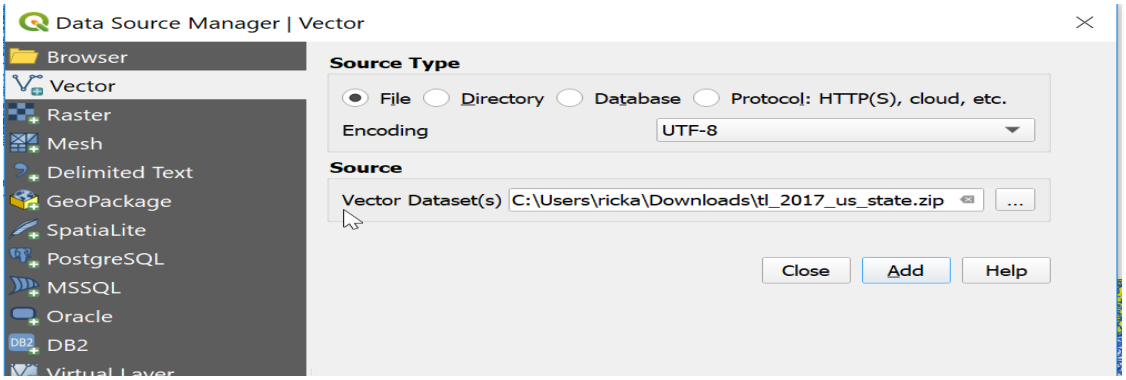
Source: https://catalog.data.gov/dataset/tiger-line-shapefile-2017-nation-u-s-current-state-and-equivalent-national/resource/e4cd223d-7e9b-4dc8-8e92-7bba2d8d2821

Below is an example of my attribute table for my state file.


tl_2017_us_state :: Features Total: 56, Filtered: 56, Selected: 0

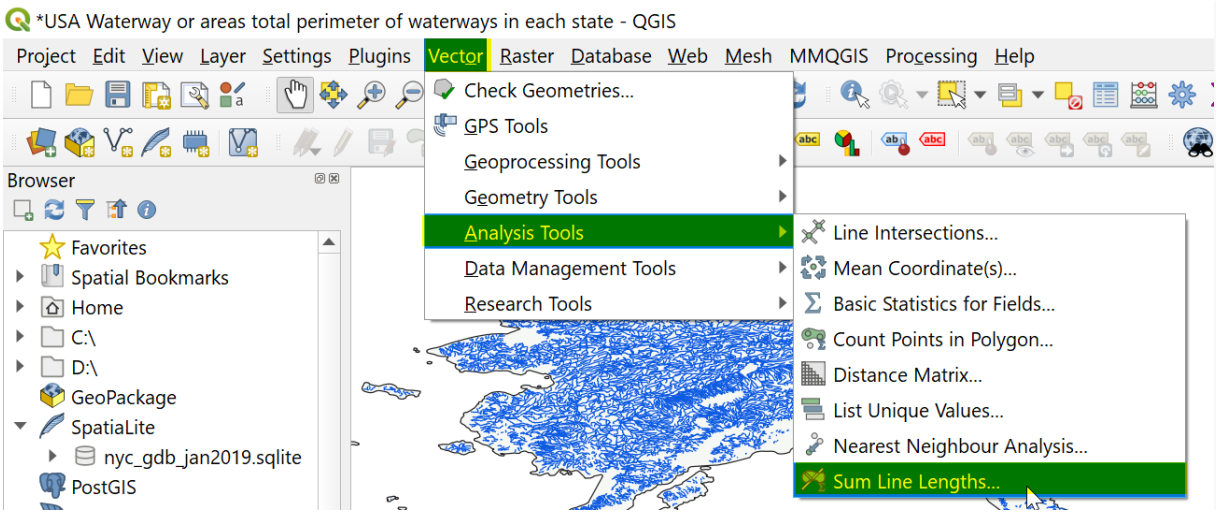
	REGION	DIVISION	STATEFP	STATENS	GEOID	STUSPS	NAME	LSAD	MTFCC	FUNCSTAT	ALAND	AWATER	INTPTLAT	INTPTLON
1	4	9	02	01785533	02	AK	Alaska	00	G4000	A	1478588231566	277723861311	+63.2813242	-152.5730397
2	3	6	01	01779775	01	AL	Alabama	00	G4000	A	131174431216	4592944701	+32.7396323	-086.8434593
3	3	7	05	00068085	05	AR	Arkansas	00	G4000	A	134768100673	2963631791	+34.8955256	-092.4446262
4	9	0	60	01802701	60	AS	American Samoa	00	G4000	A	197759070	1307243753	-14.2668475	-170.6671854
5	4	8	04	01779777	04	AZ	Arizona	00	G4000	A	294198661567	1027245114	+34.2039355	-111.6063565
6	4	9	06	01779778	06	CA	California	00	G4000	A	403483182192	20484637928	+37.1551773	-119.5434183
7	4	8	08	01779779	08	CO	Colorado	00	G4000	A	268425964573	1178495763	+38.9938482	-105.5083165
8	1	1	09	01779780	09	CT	Connecticut	00	G4000	A	12542619303	1815495323	+41.5798637	-072.7466572
9	3	5	11	01702382	11	DC	District of Colu...	00	G4000	A	158351639	18675956	+38.9041031	-077.0172290
10	3	5	10	01779781	10	DE	Delaware	00	G4000	A	5047241079	1398670234	+38.9986239	-075.4416920
11	3	5	12	00294478	12	FL	Florida	00	G4000	A	138911437206	31398800291	+28.4574302	-082.4091478
12	3	5	13	01705317	13	GA	Georgia	00	G4000	A	149177524294	4733385577	+32.6295789	-083.4235109
13	9	0	66	01802705	66	GU	Guam	00	G4000	A	543558310	934334983	+13.4382886	+144.7729493

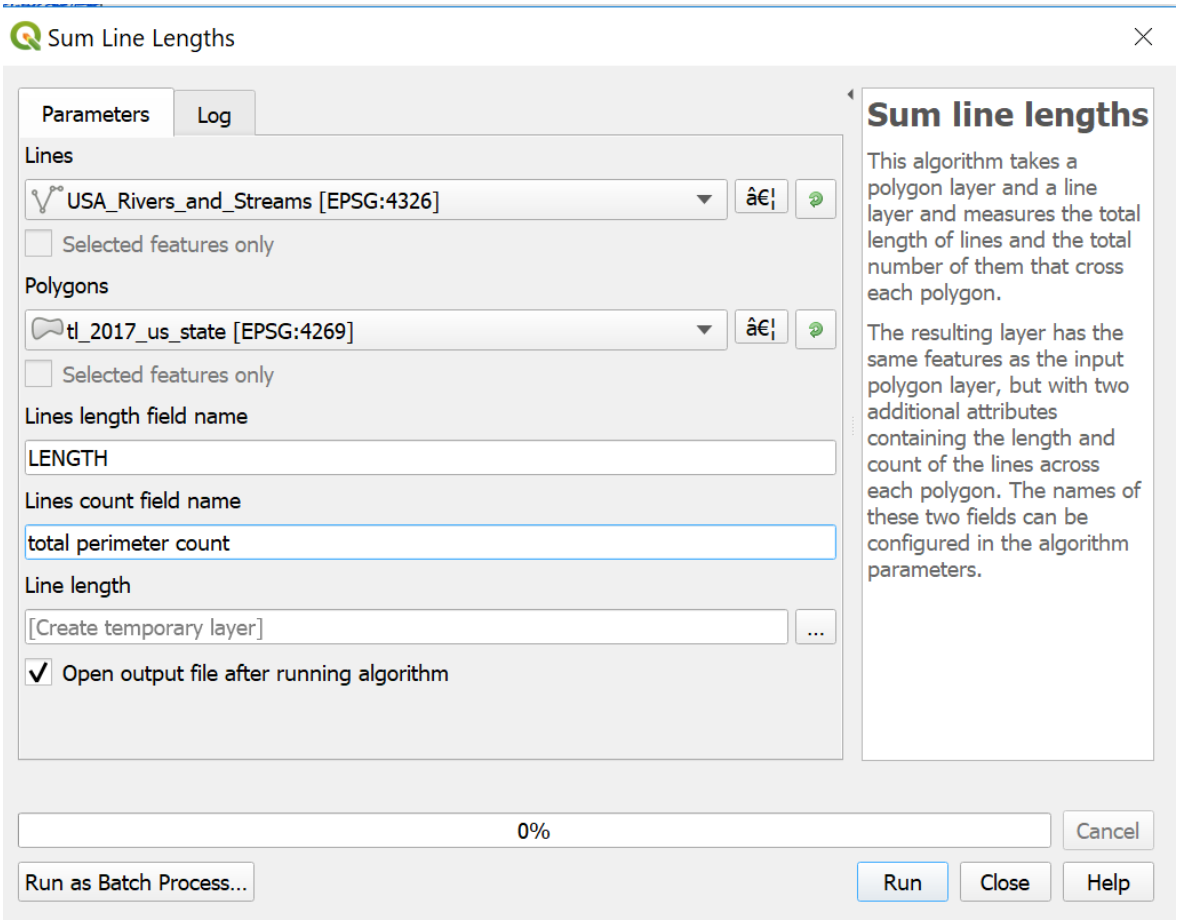
My state file "**tl_2017_us_state**"was added:
Go to Layer → Add Layer → Vector →File →Vector Datasets source →Point to the file download.



Solution: I've performed the following steps to calculate my results "total perimeter count of the waterways in each state"

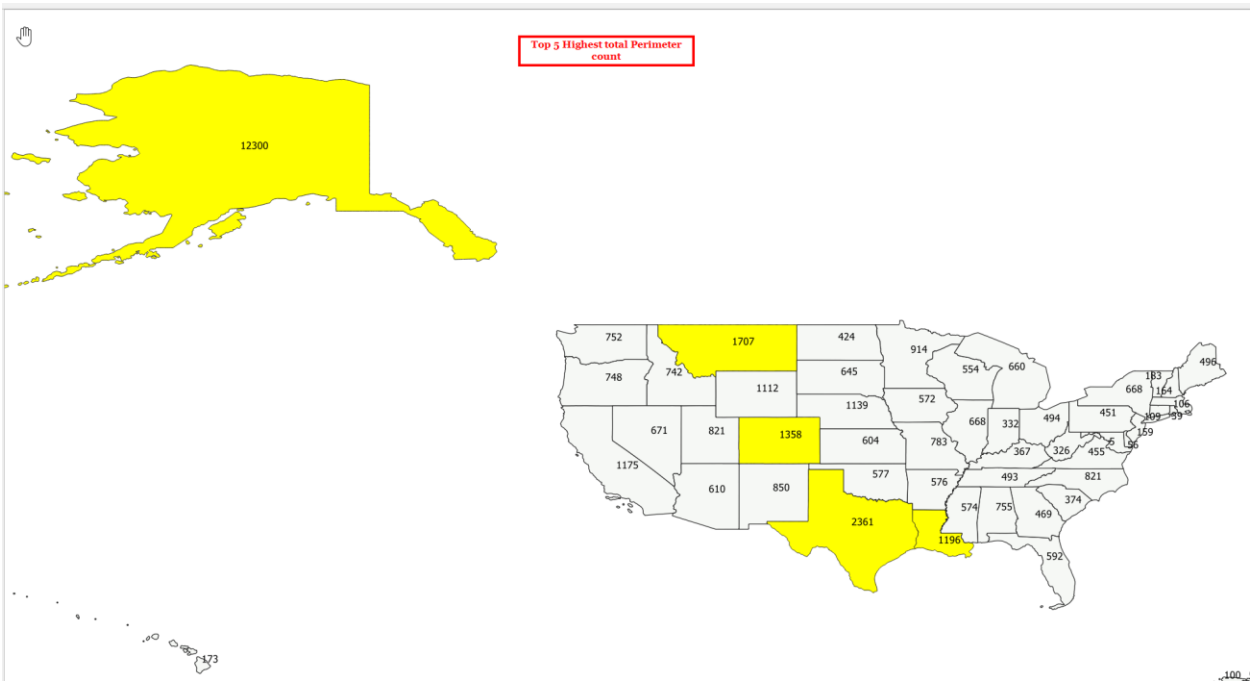
Go to Vector → Analysis Tools → Sum Line Lengths → Select Lines → Select Polygons → Enter your count Field name → Run to compute your results.





Once completed, I've sorted the unwanted data/columns and kept the desired fields based on the total perimeter count, filtered from highest to lowest.

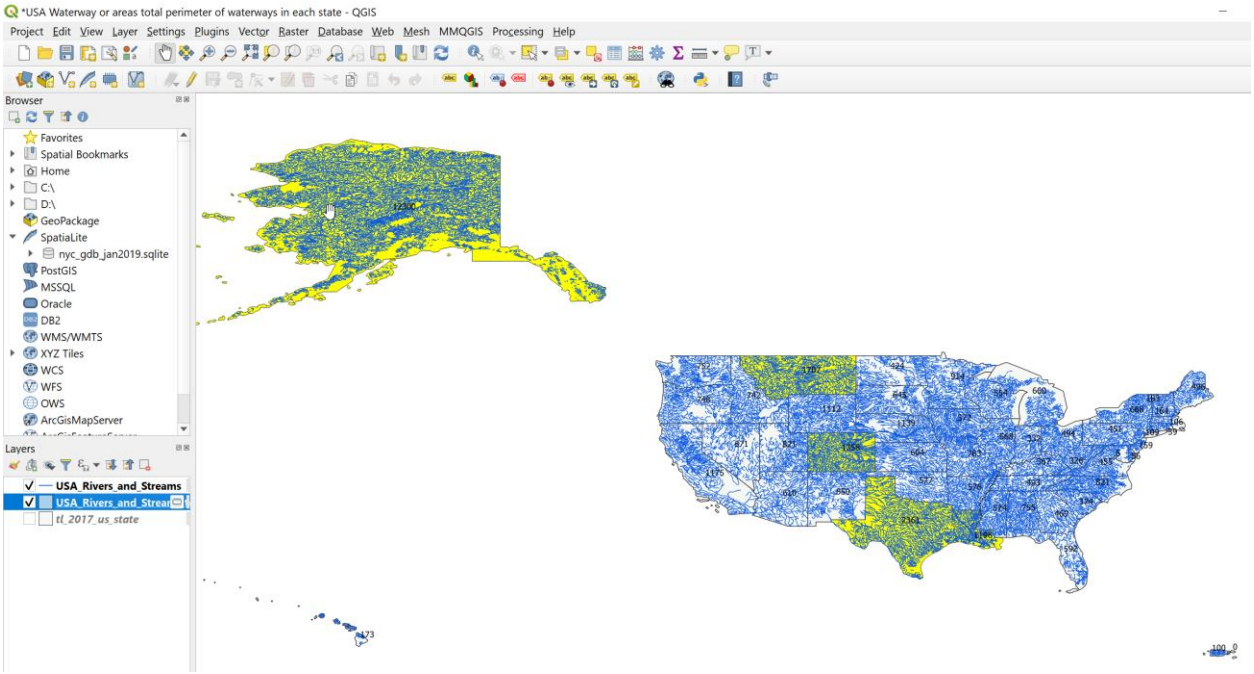
Displayed here reflects my results was filtered for the highest perimeter count per state (Top 5 highest count results).



I've also included a sample of my Attribute table.

USA_Rivers_and_Streams total Count per state :: Features Total: 56, Filtered: 56, Selected: 5

	STUSPS	NAME	LENGTH	US R&S Total perimeter COUNT State
1	AK	Alaska	185330342.10903588	12300
2	TX	Texas	51500057.8005231	2361
3	MT	Montana	34823510.70110213	1707
4	CO	Colorado	27992311.544937585	1358
5	LA	Louisiana	15882036.621753419	1196
6	CA	California	26015141.609099492	1175
7	NE	Nebraska	18177003.284133922	1139
8	WY	Wyoming	23344647.722484875	1112
9	MN	Minnesota	17497377.970034998	914
10	NM	New Mexico	19525084.04631463	850
11	NC	North Carolina	14224724.049359811	821
12	UT	Utah	15942257.174147457	821
13	MO	Missouri	18883185.525482588	783
14	AL	Alabama	15202805.916469488	755
15	WA	Washington	15156484.647055022	752


*USA Waterway or areas total perimeter of waterways in each state - QGIS
Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh MMQGIS Processing Help
Browser
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D:\
GeoPackage
SpatiaLite
nyc_gdb_jan2019.sqlite
PostGIS
MSSQL
Oracle
DB2
WMS/WMTS
XYZ Tiles
WCS
WFS
OWS
ArcGisMapServer
Layers
USA_Rivers_and_Streams
USA_Rivers_and_Strean
tl_2017_us_state