HW 4 rubrics

Q1)

+1 if the query is correct and the results are displayed correctly in the screenshot.

Q2)
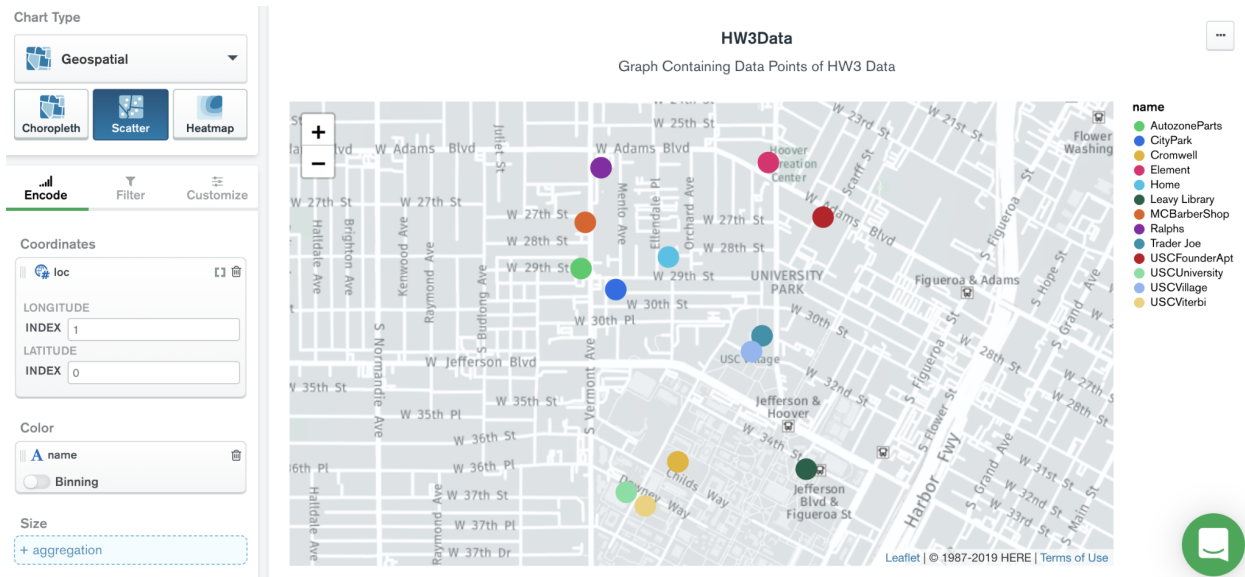
+0.5 for selecting appropriate chart type (Geospatial > Scatter or HeatMap?)
[Saty] - ANY chart type (incl non-spatial ones such as heatmap) is fine!
+0.5 for correct display of all the points on the Map/Chart.

Q3)
Example of what the query should look like :

Query ⓘ

```
{ loc: { $geoWithin: { $box: [ [34.022, -118.288], [34.033, -118.283 ]] } }}
```

0.5 for correct query, else 0

0.5 for correct display:
Screenshot should show **northern half** of the 13 points (6/7 points)
Corner case: Some set of points may be hard to split exactly in half in which a different number of points is acceptable.
0 in case of choosing some other orientation (e.g. south)
0 in case a chart type is chosen that does not allow the visualization of the locations.

4) should be something like this, this is just an example
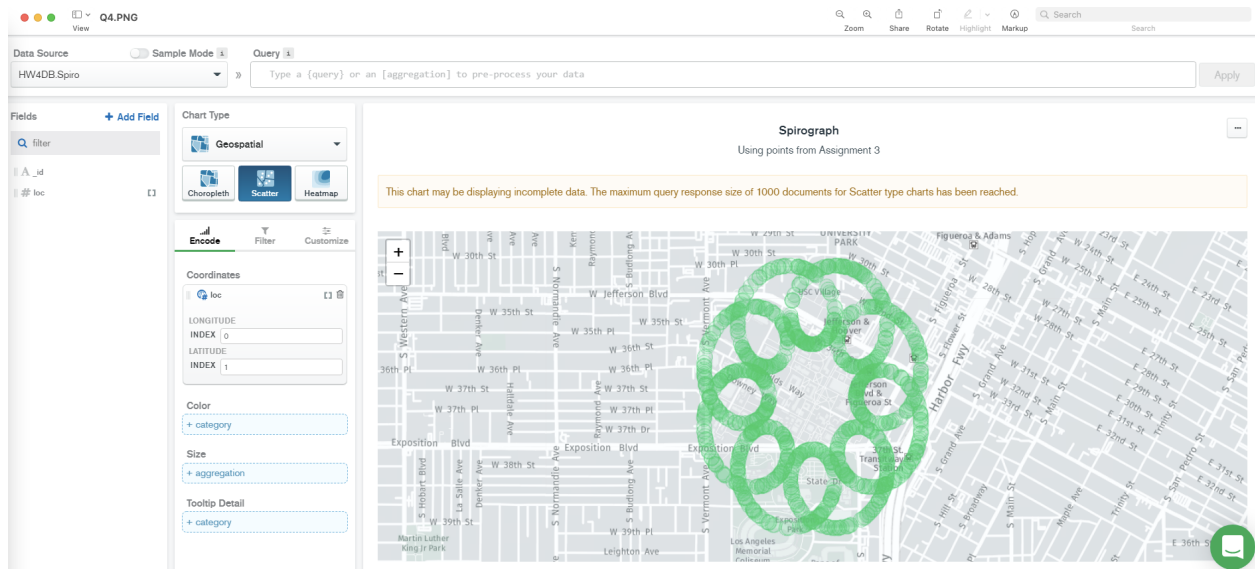
+0.5 for bring in some locations, screen shot

+0.5 for bring in all 13 locations and nice screen shot.

[Saty: no need for the sampled locations, just the Spirograph points showing up will do]

5) This is the example of a triangle provided in the homework, but the size of the triangle can be any size. Should be as equilateral as possible.
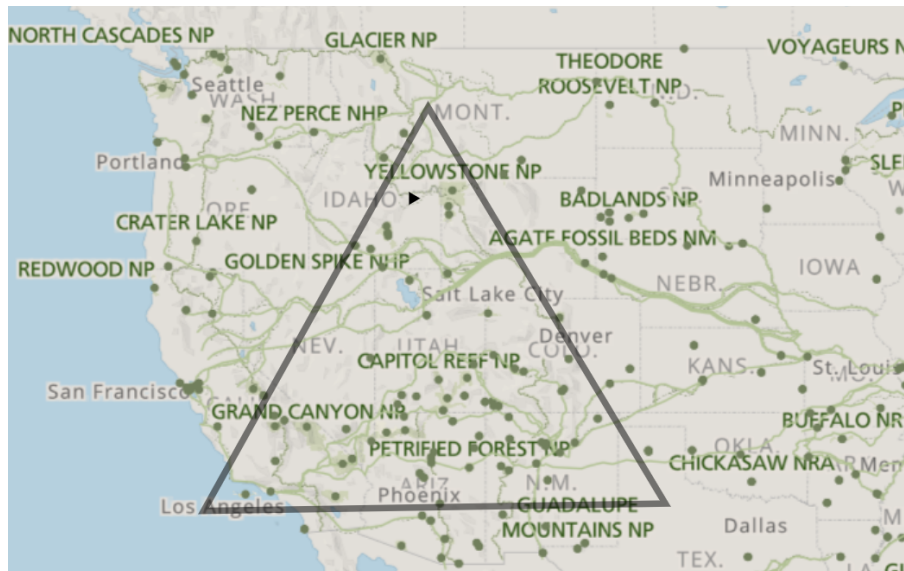
+0.25 for providing a triangle. Any form to represent the triangle should be fine, They can screenshot their code like this


```
Query i

{loc:{$geoWithin:{$polygon:[[-115,36],[-120,33],[-123,33]]}}}
```

they can screen shot of the overimposed one on map, they can specify the coordinates of three corner, or three line function,

+0.25 for output at least a correct single location in the triangle by their query
+0.5 output all correct locations in the triangle and screen shot them.
[Saty: no need to show the triangle overlaid - just the contained (in the triangle) points will do]

6) The screenshot should include something like this
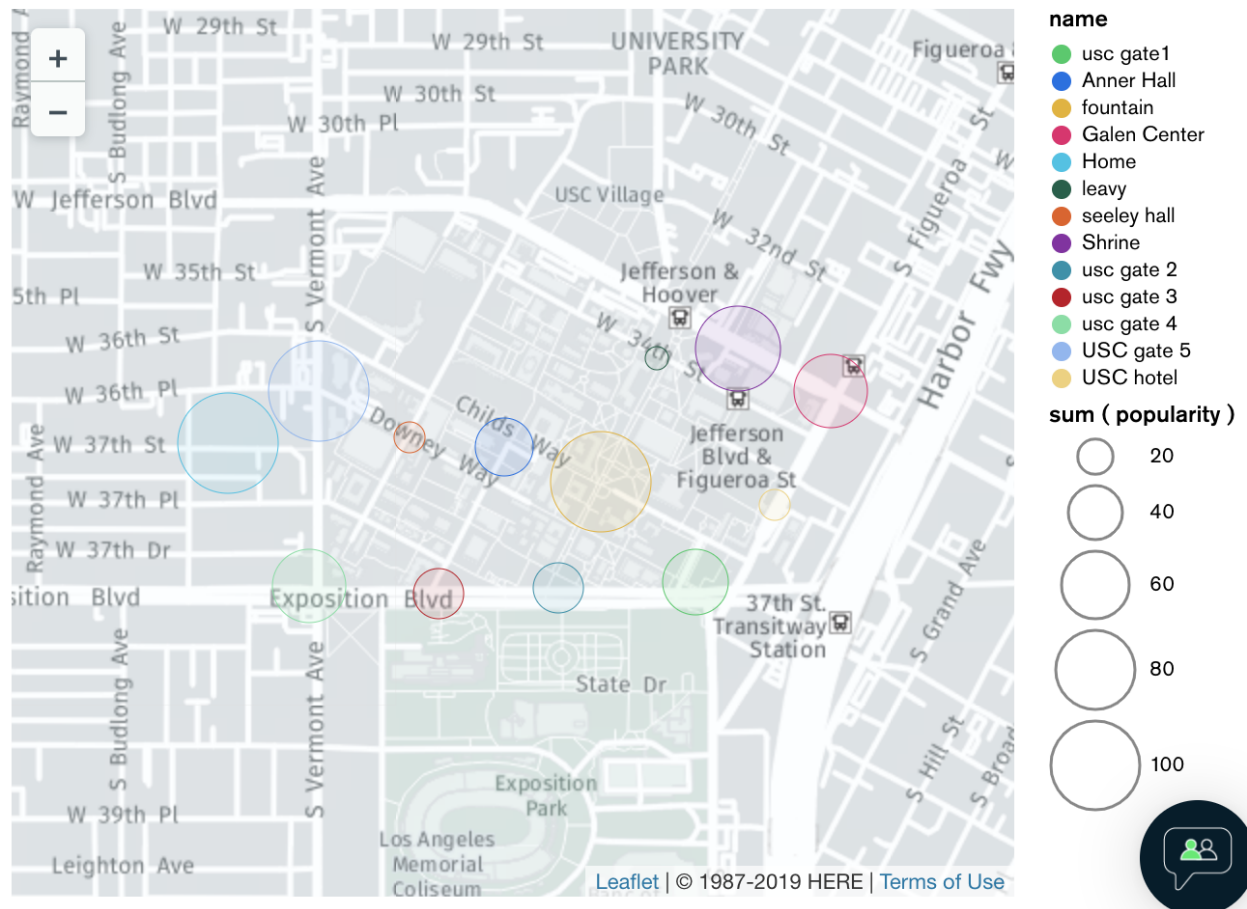
+0.5 for using the correct style
+0.5 for using the 'Size' aggregation so that the location size is displayed in various sizes.