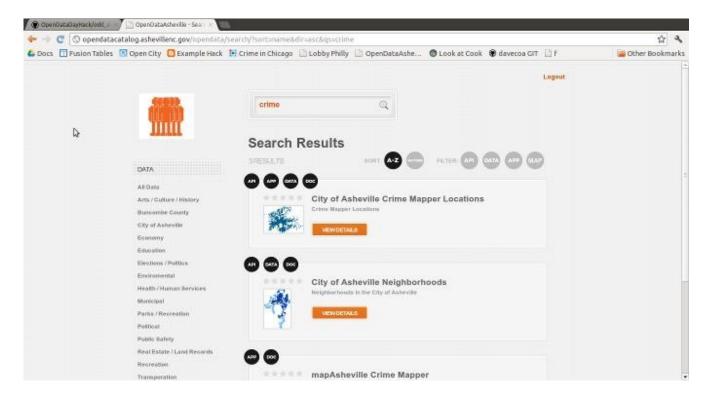
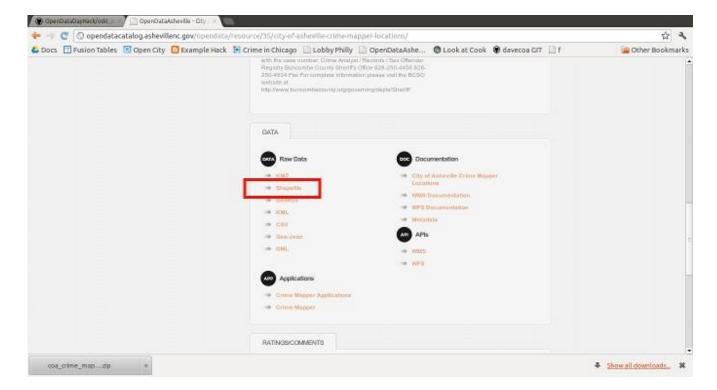
My ODD Sample Hack Directions.

This hack took me about an hour, here is how I did it. I would speculate that if several people worked on the different parts then it would only take a 20 to 30 minutes with the potential of adding extra goodies.

Go to the Open Data Asheville Data Portal at http://opendatacatalog.ashevillenc.gov/ and search for Crime



Select the City of Asheville Crime Mapper Locations and under the Data area click on the shapefile link.



Hit back on the browser and select City of Asheville Neighborhoods

Once again click the shapefile link to download.

Unzip coa asheville neighborhoods.zip

Unzip coa crime mapper locations view.zip

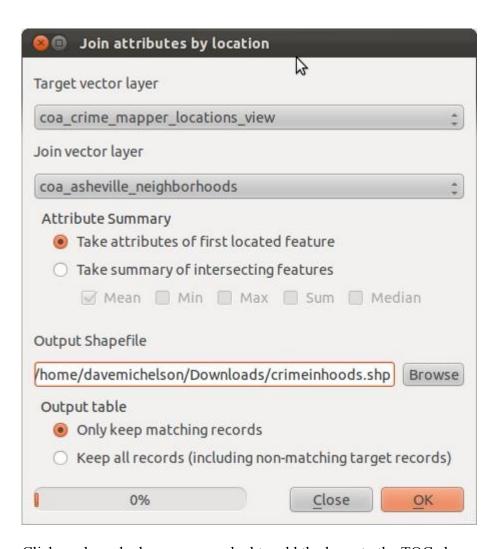
Open QGIS.

Add the layers coa asheville neighborhoods.shp and coa crime mapper locations view.shp to QGIS

Layer – add vector layer – navigate to where you downloaded and unziped the shapefiles

Now go to the menu choice Vector – Data Management Tools – Join attributes by location

Target vector layer: coa_crime_mapper_locations_view join vector layer: coa_asheville_neighborhood output is crimeinhoods.shp



Click apply and when you are asked to add the layer to the TOC choose yes.

Then close when finished.

Now we need to re-project the shapefile to wgs84 to get latitude and longitude.

Right click the crimeinhoods layer in the table of contents and click on save as...

Name it crimeinhoods_4326.shp

now browse for a projection wgs84

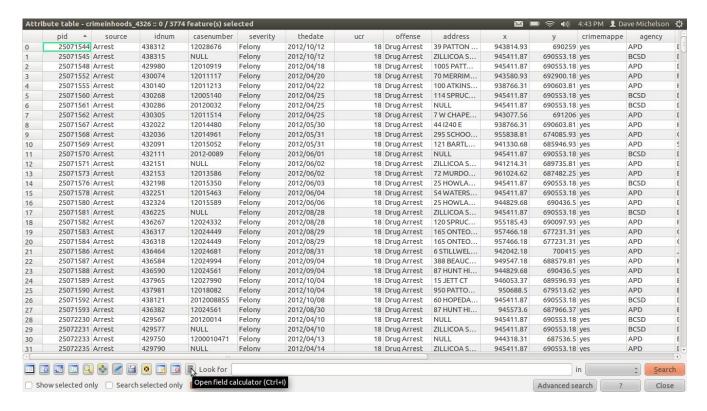
🔞 📵 Save vector layer as						
Format	ESRI Shapefile 🗦 💲					
Save as	ownloads/crimeinhoods.shp Browse					
Encoding	UTF-8 ‡					
CRS	Selected CRS ‡					
	WGS 84 Browse					
OGR creation options						
Data so	urce					
Layer						
	attribute creation					
Help	<u>Cancel</u> <u>OK</u>					

Click OK.

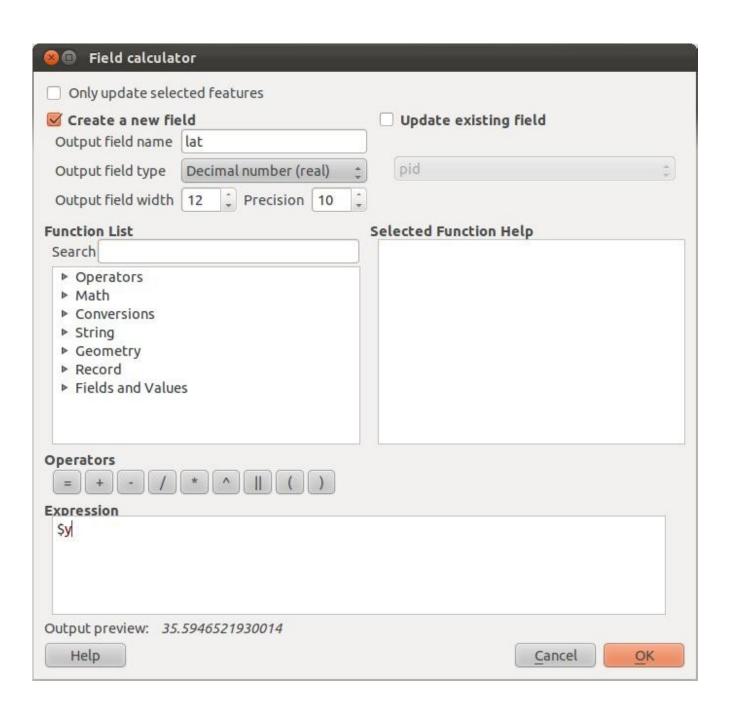
Add the crimeinhoods_4326.shp layer into QGIS.

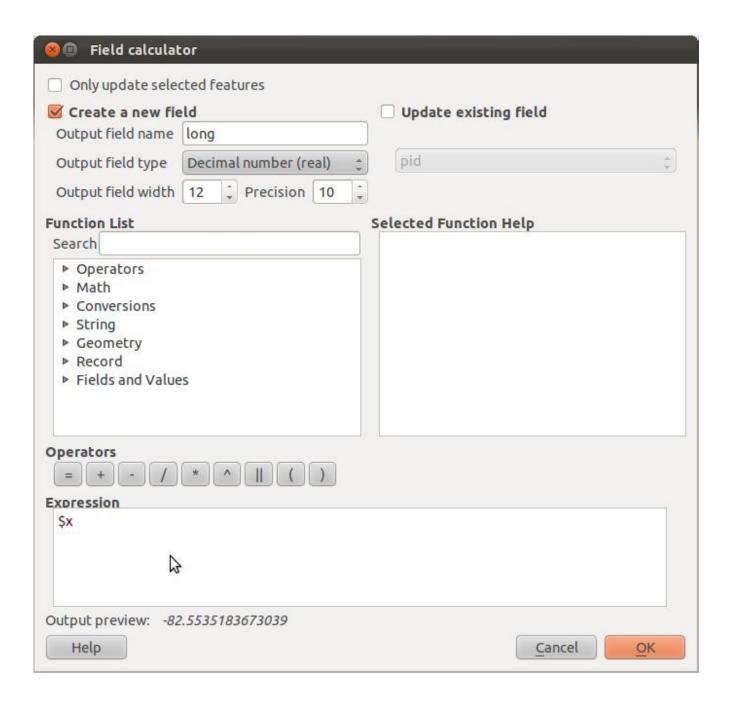
Layer – add vector layer – browse to crimeinhoods 4326.shp

Open the attribute table and toggle editing on.



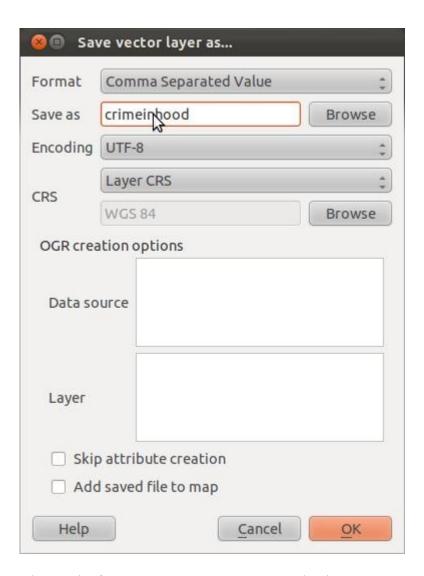
Click the field calculate utility and create two numeric (12,10) fields. One named lat and one named long and calculate lat to \$y and long to \$x.





Toggle the editing off and save the changes.

Right click the crimeinhoods layer and select save as....

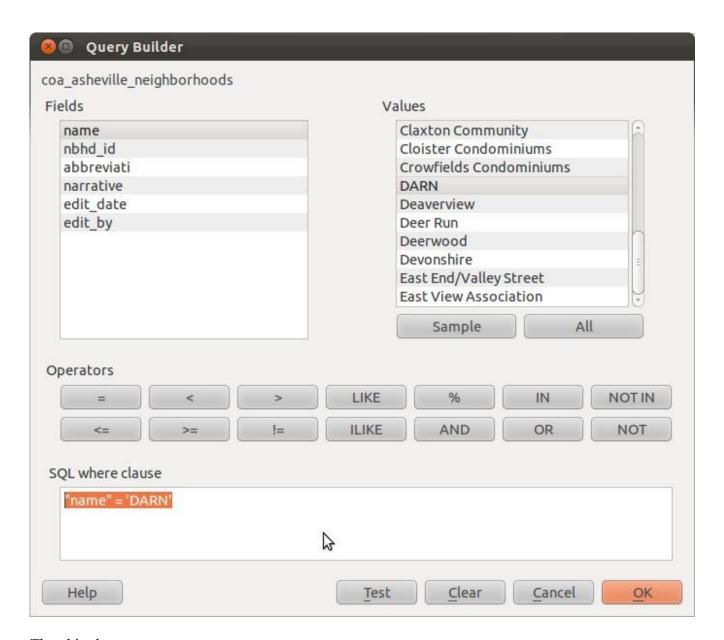


Change the format to CSV comma separated value.

Save as crimeinhood.csv.

Next in QGIS select the neighbored name = 'DARN' – in the neighborhood layer.

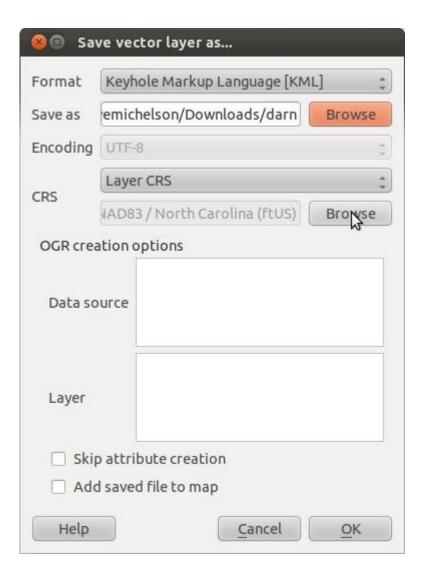
Right click the neighborhood layer in the table of contents and choose select query.



Then hit okay

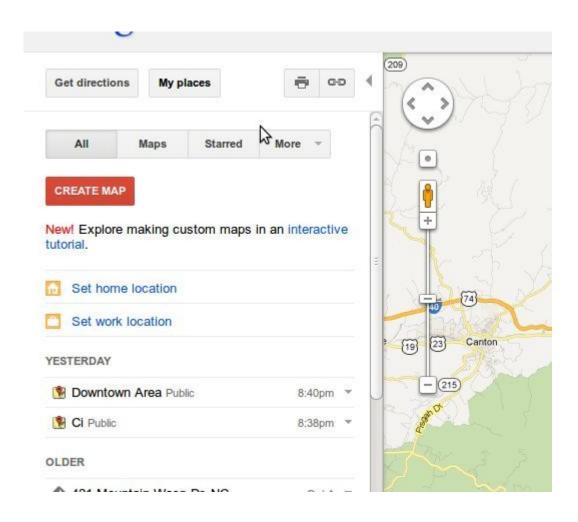
Right the neighborhood layer and choose save as...

Choose the format as kml key markup language and name it darn.kml



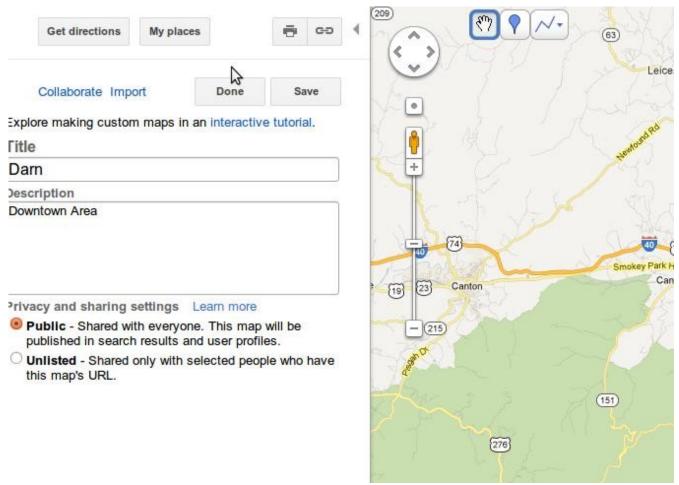
Next you will have to use a Google account to create a custom map...

In the menu of your Google account find maps and click on the link – use the my places button and then choose create map



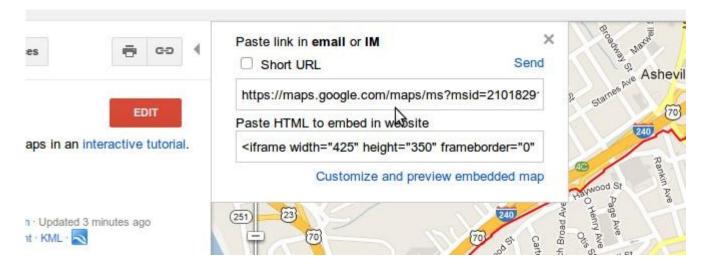
Enter a title so its meaningful. Downtown Area is what I choose.

Click on the import link and import the DARN KML file.

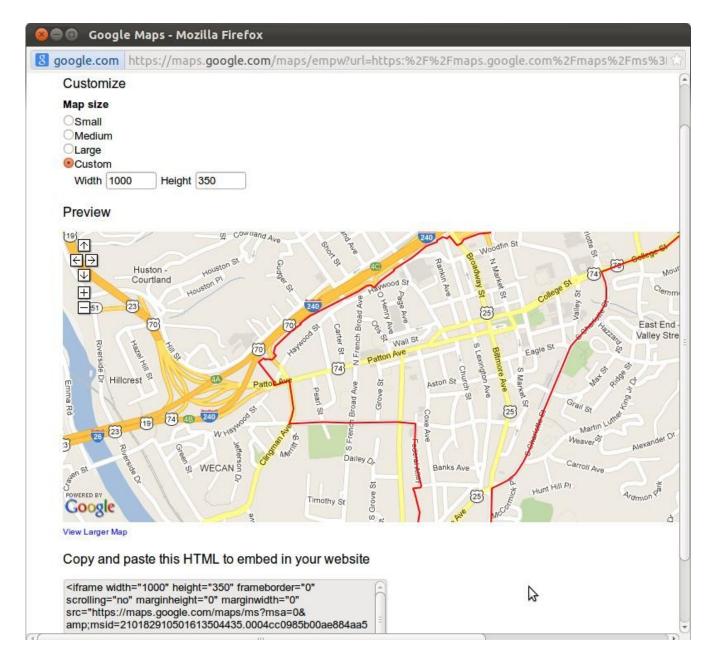


Click save, then click done.

Click the embed link, then click the customize and preview embedded map link.



Enter a custom width of 1000 and and height of 350



Copy and paste the HTML at the bottom into a HTML Editor or blog post.

<iframe width="1000" height="350" frameborder="0" scrolling="no" marginheight="0"
marginwidth="0" src="https://maps.google.com/maps/ms?</pre>

msa=0&msid=210182910501613504435.0004cc0985b00ae884aa5&hl=en&ie=UTF8&t=m&ll=35.593076,-

82.552428&spn=0.012214,0.042915&z=15&output=embed"></iframe>
/><small>View <a href="https://maps.google.com/maps/ms?"

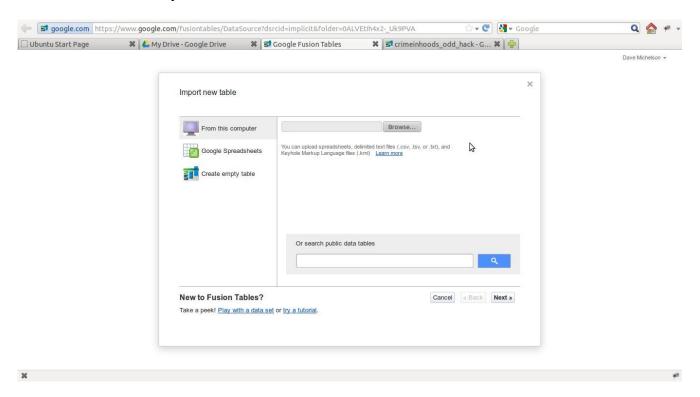
msa=0& amp; msid=210182910501613504435.0004cc0985b00ae884aa5& amp; hl=en& amp; ie=UTF8& amp; t=m& amp; ll=35.593076, -

82.552428&spn=0.012214,0.042915&z=15&source=embed" style="color:#0000FF;text-align:left">Darn in a larger map</small>

Go to your Google account and find Documents or Google Drive, add a new fusion table for the crime in hoods....

Fusion tables are under Create, then more > (my screen shots refused to capture some of this stuff sorry)

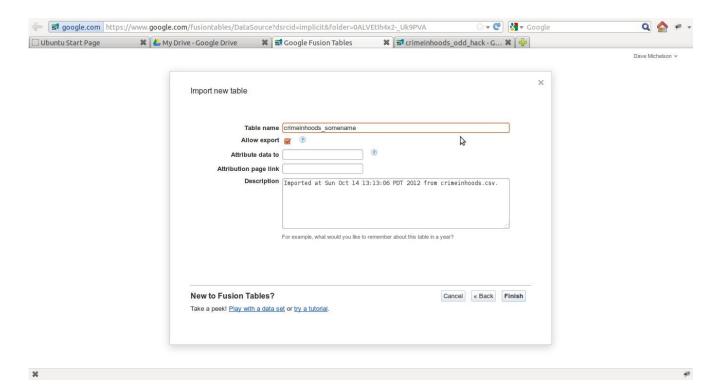
Choose to browse to a file from this computer. The file should be named crimeinhoods.csv, you may have named it differently which is fine.



Accept the defaults and click next

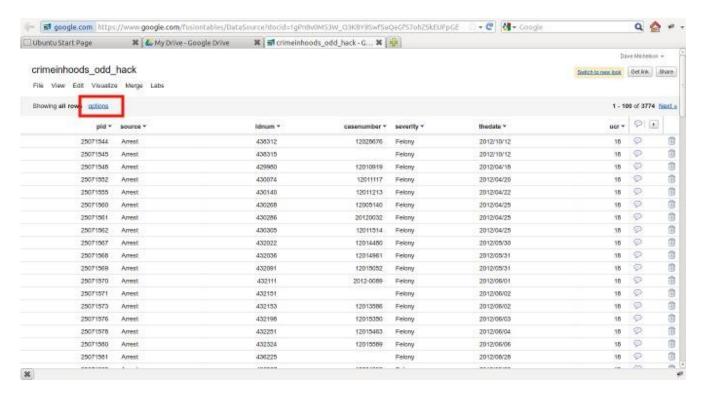
When the upload is completed click next.

Then rename the imported file to something like crimeinhoods_odd_hack

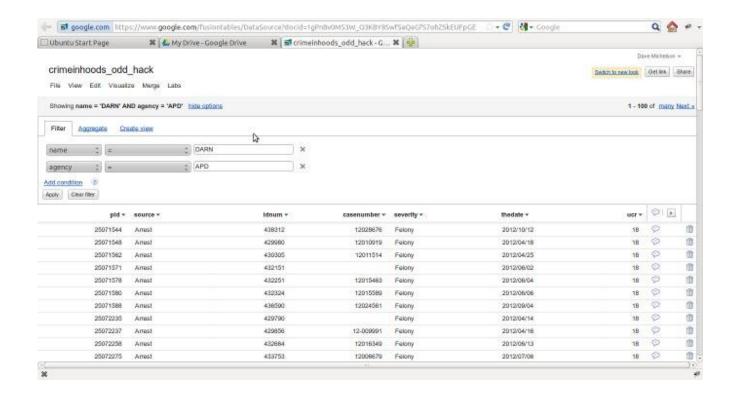


You may have to wait till it uploads to work with the fusion table...

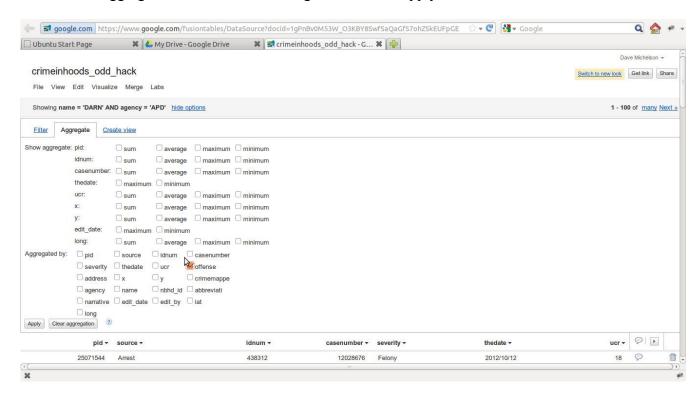
After the import is complete start your analysis by clicking on the options link



Add filters for name(neighborhood) = DARN and agency = APD. Don't forget to click the apply button.



Next add an aggregate for offense. Don't forget to click the apply button.



From the fusion table menu choose visualize pie. Mmmmm Pie.

Click the get embeddable code button, then the change visibility link, choose share.

Then choose the level of sharing you want. Since its Open data day you should lean towards public!

Click OK

Go back to the embeddable code link and change the width to 1000 and height to 350

Copy and paste the HTML to a HTML editor and make the HTML look nice. I copied it to a blog post it was a lot easier.

```
<iframe width="1000" height="350" scrolling="no" frameborder="no"
src="https://www.google.com/fusiontables/embedviz?
viz=GVIZ&amp;t=PIE&amp;containerId=gviz_canvas&amp;q=select+col7%2C+count()
+from+1gPnBv0M53W_O3KBY8SwfSaQaGfS7ohZSkEUFpGE+where+col13+
%3D+&#39;DARN&#39;+and+col12+%3D+&#39;APD&#39;&amp;qrs=+and+col7+%3E
%3D+&amp;qre=+and+col7+%3C
%3D+&amp;qe=+group+by+col7+limit+9&amp;width=1000&amp;height=350"></iframe>
```

Go back to the visualize and choose bar.

Repeat the embeddable code process width 1000 and 350 width

```
<iframe width="1000" height="350" scrolling="no" frameborder="no"
src="https://www.google.com/fusiontables/embedviz?
viz=GVIZ&amp;t=BAR&amp;containerId=gviz_canvas&amp;q=select+col7%2C+count()
+from+1gPnBv0M53W_O3KBY8SwfSaQaGfS7ohZSkEUFpGE+where+col13+
%3D+&#39;DARN&#39;+and+col12+%3D+&#39;APD&#39;&amp;qrs=+and+col7+%3E
%3D+&amp;qre=+and+col7+%3C
%3D+&amp;qe=+group+by+col7+limit+9&amp;att=true&amp;width=1000&amp;height=335"></iframe>
```

I found that the bar code did not sort by the count so I hacked it and added the syntax. See the addition in red below

```
<iframe width="1000" height="350" scrolling="no" frameborder="no"
src="https://www.google.com/fusiontables/embedviz?
viz=GVIZ&amp;t=BAR&amp;containerId=gviz_canvas&amp;q=select+col7%2C+count()
+from+1gPnBv0M53W_O3KBY8SwfSaQaGfS7ohZSkEUFpGE+where+col13+
%3D+&#39;DARN&#39;+and+col12+%3D+&#39;APD&#39;&amp;qrs=+and+col7+%3E
%3D+&amp;qre=+and+col7+%3C%3D+&amp;qe=+group+by+col7+order+by+count()
+limit+9&amp;att=true&amp;width=1000&amp;height=335"></iframe>
```

Repeat the copy and paste to the HTML editor or blog post

Go to the aggregate again and change the aggregate from offense to thedate.

Change the visualize to line and get the embeddable code the same way.

```
<iframe width="1000" height="350" scrolling="no" frameborder="no"
src="https://www.google.com/fusiontables/embedviz?</pre>
```

viz=GVIZ&t=LINE&containerId=gviz_canvas&isXyPlot=true&q=select+col5%2 C+count()+from+1gPnBv0M53W_O3KBY8SwfSaQaGfS7ohZSkEUFpGE+where+col13+ %3D+'DARN'+and+col12+%3D+'APD'&qrs=+and+col5+%3E %3D+&qre=+and+col5+%3C %3D+&qe=+group+by+col5+order+by+col5+asc+limit+250&att=true&width=1000&a mp;height=335"></iframe>

Again I noticed that the syntax did some things I did not like - it left out some months at the end of the graph. I hacked it like below. The change is in red.

<iframe width="1000" height="350" scrolling="no" frameborder="no"
src="https://www.google.com/fusiontables/embedviz?
viz=GVIZ&t=LINE&containerId=gviz_canvas&isXyPlot=true&q=select+col5%2
C+count()+from+1gPnBv0M53W_O3KBY8SwfSaQaGfS7ohZSkEUFpGE+where+col13+
%3D+'DARN'+and+col12+%3D+'APD'&qrs=+and+col5+%3E
%3D+&qre=+and+col5+%3C
%3D+&qe=+group+by+col5+order+by+col5+asc+limit+10000&att=true&width=1000
&height=335"></iframe>

Repeat the copy and paste to the HTML editor or blog post

Now add a new filter for offense. Start with Drug Arrest then Larceny, and then Vandalism. Each one individually, each time Repeating the copy and paste to the HTML editor or blog post.

In each instance I hacked the limit to 10000 to force the graph to show all dates.

For the maps remove all aggregates. you need the lat and long fields, which aggregation leaves off. Fusion tables auto-magically recognizes the field lat and long as a location so you should be good.

You will also need to add another filter for date. Dates are formated like 2011/10/29 in the data to replicate my maps. Then choose visualize and map. It should be auto-magic.

I followed the same principle for each map as the charts. I changed the width to 1000 and height to 350. Got the embedded link and repeated the copy and paste to the HTML editor or blog post.

For the heat map notice that there is a check box that says display as heat map - click it. The embedded link will use that option. Get the embedded link and repeat the copy and paste to the HTML editor or blog post.

For the blog I used the blogger simple template and removed all the extra stuff. And made the width 1200. Since this is a hack you should hack it to what you want and not do exactly what I did!

I Saved and published the bog post viola, a somewhat simple hack on Open Data from Asheville.

My complete HTML that I am using on the blog post is on git hub at:

https://github.com/davecoa/OpenDataDayHack/blob/master/odd example hack post.html

feel free to us it and play with the settings. Happy Hacking!