



# Geography 375 - Python Course

Submitted By: Annette Poole

## **Script to Run the Homeless Quarterly Stats** **May 19, 2019**

**Instructor: Nathan Jennings**



**Geography 375 – Python Course**  
**Script to Run the Homeless Quarterly Stats**  
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**Automation of Quarterly Homeless Stats**

Our goal is to automate from beginning to end the entire process of the Quarterly Homeless Stats. Specifically, create automation to retrieve data, process data, output data to a final product, and email product to recipients on a quarterly basis.

Automation will improve efficiency and accuracy of the following processes for homeless stats.

1. Homeless Stats project is initiated automatically once a quarter
2. Data retrieval of all raw data for the quarter
3. Retrieving the attributes used to define the homeless
4. Identifying the number of homeless in each district
5. Creating a final product which consists of a map document for each district, a count of the homeless for each district, and the top ten homeless calls for service Refer to Figure 1.
6. Upon completion, product is emailed to recipients

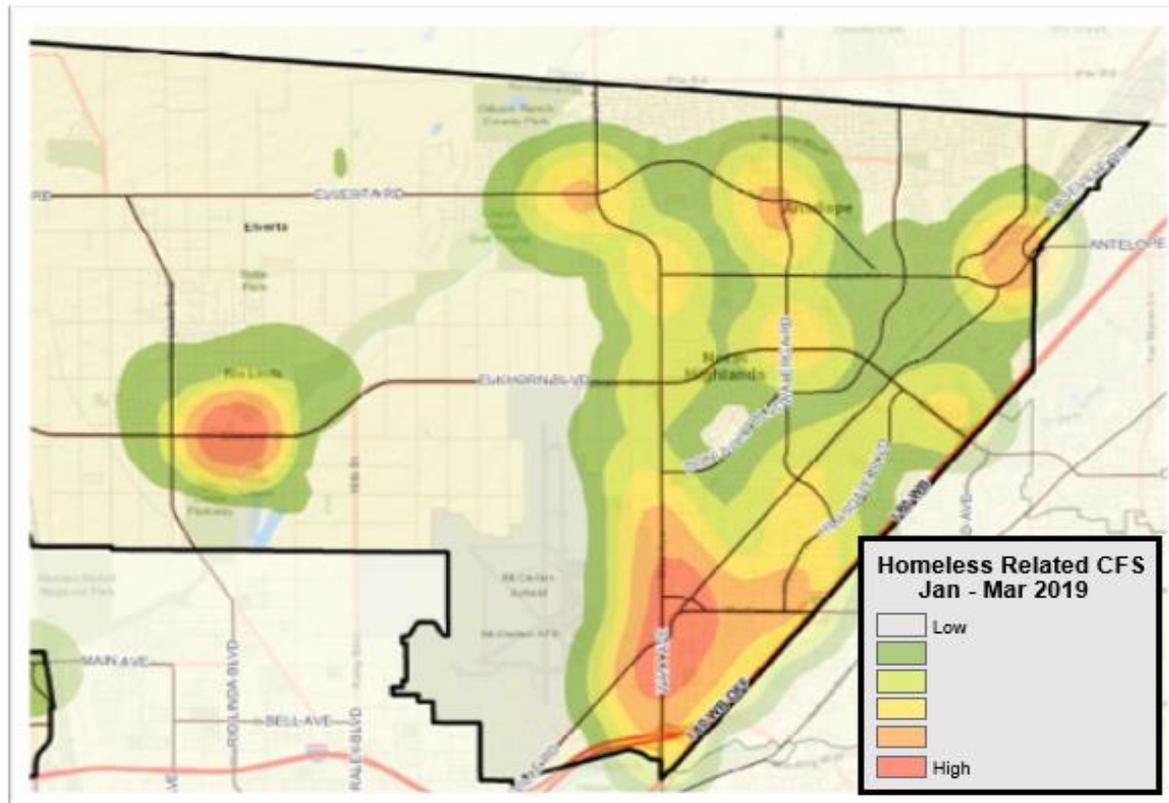


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Script to Run the Homeless Quarterly Stats  
May 19, 2019

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Final Product for each District

District # Homeless CFS Hotspots



583 Homeless Related CFS

Top Ten Call Types

HOT PROJECT	150
TRESPASSING IN PROGRESS	142
SUSPICIOUS SUBJECT(S)	66
SUSPICIOUS VEHICLE -- OCCUPIED	58
DIRECTED PATROL OPERATION	49
DISTURBANCE -- SPECIFY TYPE	25
DISTURBANCE -- CUSTOMER	8
PATROL REQUEST	8
SUSPICIOUS CIRCUMSTANCES	6
WELFARE CHECK -- SPECIFY TYPE AND NATURE	5



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## Script to Run the Homeless Quarterly Stats

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### Working Portion of Script

```
##### Step 1. Make Feature Layer, Select Layer by Attribute with Query
##### Select from calls for service the Study Flag "TP"
```

```
result = arcpy.GetCount_management(Original_Data) # counting the dbase
print "Number of features in the raw data feature class " + Original_Data + " : " + str(result)

if arcpy.Exists(Original_Data_Layer):
    arcpy.Delete_management(Original_Data_Layer)

arcpy.MakeFeatureLayer_management(Original_Data,Original_Data_Layer)

# query = """"Study_Flag" = 'TP'""""
query = """"Study_Flag" = 'TP' and "District" = 1""""

arcpy.SelectLayerByAttribute_management(Original_Data_Layer, "NEW_SELECTION", query)

result = arcpy.GetCount_management(Original_Data_Layer)
print "Number of Call Types where the " + query + " : " + str(result)
```

```
>>>
```

```
RESTART: C:\Users\Annette\Desktop\375_Python\01 Final Project\Work\Class Project Script Map Automation\Poole_script.py
Number of features in the raw data feature class Orig_HOT.shp : 748
Number of Call Types where the "Study_Flag" = 'TP' and "District" = 1 : 10
```

Step 1. First counts all rows in the current table. Next, selects all calls for service with a Study\_Flag of “TP”. Then in this case, the Process also selects only the TP study flags for District 1. In this table, there are only 10 for District 1.



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## Script to Run the Homeless Quarterly Stats

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### Working Portion of Script

```
##### Step 2. Count the number of calls within each Call Type(field name casetype)
```

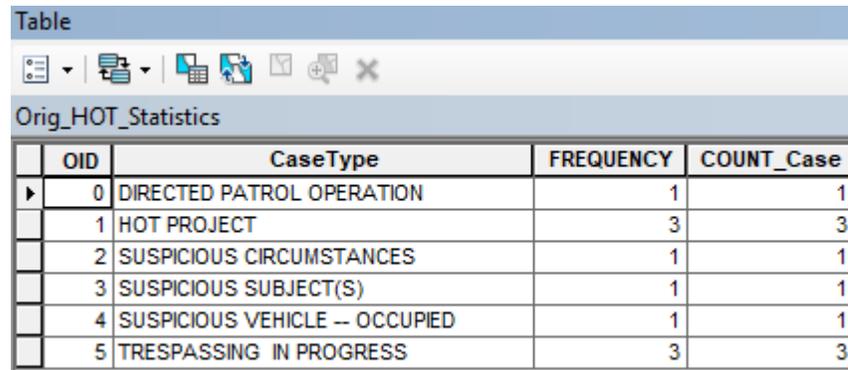
```
if arcpy.Exists(Orig_HOT_Statistics):  
    arcpy.Delete_management(Orig_HOT_Statistics)
```

```
arcpy.Statistics_analysis(Original_Data_Layer, Orig_HOT_Statistics, "CaseType COUNT", "CaseType")
```

Step 2.

This process counts the number of calls for service  
For each case type.

Table



	OID	CaseType	FREQUENCY	COUNT_Case
▶	0	DIRECTED PATROL OPERATION	1	1
	1	HOT PROJECT	3	3
	2	SUSPICIOUS CIRCUMSTANCES	1	1
	3	SUSPICIOUS SUBJECT(S)	1	1
	4	SUSPICIOUS VEHICLE -- OCCUPIED	1	1
	5	TRESPASSING IN PROGRESS	3	3



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## Working Portion of Script

```
##### Step 3. Copy the result of the query = """"Study_Flag" = 'TP' and "District" = 1"""" t
```

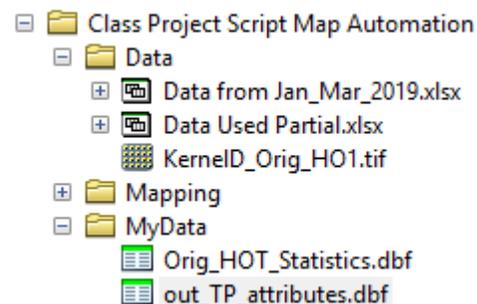
```
if arcpy.Exists(out_TP_attributes):  
    arcpy.Delete_management(out_TP_attributes)
```

```
arcpy.CopyRows_management(Original_Data_Layer, out_TP_attributes)
```

```
print "Copied selected attributes from " + Original_Data_Layer + " to " + out_TP_attributes
```

Step 3. Copies the rows to a database, in this case, called out\_TP\_attributes.

	Cleared_1	Study_Flag	Study_FL_1
▶	AREA CHECKED CLEAR (ACC)	TP	
	ADVISED	TP	
	OTHER	TP	
	ADVISED	TP	
	OTHER	TP	
	TICKET/CITATION	TP	
	OTHER	TP	
	OTHER	TP	
	ADVISED	TP	
	GONE ON ARRIVAL (GOA)	TP	





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Script to Run the Homeless Quarterly Stats  
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Working Portion of Script

```
##### Step 5. (STEP NOT COMPLETED) For each district, we want to print a map of the district  
##### SelectByLayer to select each district with study flag TP
```

```
result = arcpy.GetCount_management(District_Area)  
print "Number of features in the feature class " + District_Area + " : " + str(result)  
  
if arcpy.Exists(District_Area_Layer):  
    arcpy.Delete_management(District_Area_Layer)  
  
querydistrict = """"ColorCode" = 'NORTHWEST'"""  
  
arcpy.MakeFeatureLayer_management(District_Area, District_Area_Layer)  
  
print "Number of features in the query " + querydistrict + ":" + str(result)
```

```
Number of features in the feature class Sheriff_Districts_Poly.shp : 15  
Number of features in the query "ColorCode" = 'NORTHWEST':15
```

Step 5. Counts the features in the feature class.  
Next performs a query and a MakeFeatureLayer.  
The query and MakeFeatureLayer are not working.



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### Working Portion of Script

Step 6. Performs a Kernel Density on all of the Study\_Flags that are “TP”. This creates a .tif.

```
##### Step 6. (STEP NOT COMPLETED) Spatial Analysis-Kernel Density
```

```
arcpy.CheckOutExtension("Spatial")
```

```
if arcpy.Exists(outKernelDensity):  
    arcpy.Delete_management(outKernelDensity)
```

```
outKernelDensity = KernelDensity(infeatures, populationField, cellSize, searchRadius, "SQURE_MILES") # creates tif
```

- [-] Class Project Script Map Automation
  - [-] Data
    - [+] Data from Jan\_Mar\_2019.xlsx
    - [+] Data Used Partial.xlsx
    - KernelID\_Orig\_HO1.tif
  - [+] Mapping
  - [-] MyData
    - Orig\_HOT\_Statistics.dbf
    - out\_TP\_attributes.dbf



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Script to Run the Homeless Quarterly Stats  
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Working Portion of Script

Step 7. Creates a list of all the dataframes and layers. There is only one dataframe.

```
##### Step 7. Mapping Portion

# Get a list of dataframes, only one
dataframe = ListDataFrames(mxd, "Layers") [0]

# Get a list of layers from the Table of Contents. This works!
TOCLayers = ListLayers(mxd)

# Loop thru the layers.
for TOCLayer in TOCLayers:
    print 'Layer Name' + str(TOCLayer.name)
    DistrictLayer = TOCLayer

Layer NameOrig_HOT
Layer NameSheriff_Districts_Poly
Layer NameZipCodes
Layer NameNeighborhoods
Layer NameBasemap
Layer NameWorld Topographic Map
Layer NameCitations
```



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## Working Portion of Script

```
#### Step 3. Copy the result of the query = """"Study_Flag" = 'TP' and "District" = 1"""" to a .dbf

if arcpy.Exists(out_TP_attributes):
    arcpy.Delete_management(out_TP_attributes)

arcpy.CopyRows_management(Original_Data_Layer, out_TP_attributes)

print "Copied selected attributes from " + Original_Data_Layer + " to " + out_TP_attributes

if arcpy.Exists(out_TP_attributes + '_map.pdf'):
    arcpy.Delete_management(out_TP_attributes + '_map.pdf')

ExportToPDF(mxd,out_TP_attributes + '_map.pdf')
```

I tried to export the out\_TP\_attributes. The mxd exported instead. Then I took the mxd out of the script and I received the error below. More research to come on how to export table. Also I need to add a save, because it disappears.

```
>>>
RESTART: C:\Users\Annette\Desktop\375_Python\01 Final Project\Work\Class Project Script Map Automation\Poole_script.py
Number of features in the raw data feature class Orig_HOT.shp : 748
Number of Call Types where the "Study_Flag" = 'TP' and "District" = 1 : 10
Copied selected attributes from Orig_HOT to C:\Users\Annette\Desktop\375_Python\01 Final Project\Work\Class Project Script Map Automation\MyData
WORKS
ARCPY ERRORS:

PYTHON ERRORS:
Traceback Info:
File "C:\Users\Annette\Desktop\375_Python\01 Final Project\Work\Class Project Script Map Automation\Poole_script.py", line 105, in <module>
    ExportToPDF(out_TP_attributes + '_map.pdf')

Error Info:
<class 'Queue.Empty'>:
```

Class Project Script Map Automation > MyData

Name	Date modified	Type
info	5/18/2019 6:36 PM	File folder
Orig_HOT_Statistics.cpg	5/19/2019 10:55 PM	CPG File
Orig_HOT_Statistics.dbf	5/19/2019 10:55 PM	DBF File
Orig_HOT_Statistics.dbf	5/19/2019 10:55 PM	XML Document
out_TP_attributes.cpg	5/19/2019 10:55 PM	CPG File
out_TP_attributes.dbf	5/19/2019 10:55 PM	DBF File
out_TP_attributes.dbf	5/19/2019 10:55 PM	XML Document
out_TP_attributes.dbf_map	5/19/2019 10:55 PM	Adobe Acrobat



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**Coding Issues**

The next set of slides review the coding issues.

Several coding issues are not resolved.

To resolve the coding issues, I have searched youtube, CodeAcademy, Python.org, Stack Overflow, ArcGIS online and asked anyone who might know Python, including the instructor. I have also re-examined my variables, paths, and used other variables instead of the one I thought it was to see what would happen.



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## Script to Run the Homeless Quarterly Stats

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**Data Path Issues:** I had issues with data going into the right folders. Initially, I had the out data going into the Data folder instead of the MyData folder. That was corrected with your help.

**#1 Problem**

**#1 Corrected**

**#2 Problem**

However, I am having issues with outKernelDensity. It is going to Data. I even cut and paste the code that was working for the Orig\_HOT\_Statistics and it didn't work. I thought maybe somewhere else I have outKernelDensity pointing to Data, but I do not.

```
datapath = "C:\\Users\\Annette\\Desktop\\375_Python\\01 Final Project\\Work\\Class Project Script Map Automation\\"
#datapath = "C:\\Users\\apoole\\Desktop\\Python\\Class Project Script Map Automation\\"

outKernelDensity = datapath + 'MyData\\KernelD_Orig_HO1.tif'
#outKernelDensity = outpath + 'KernelD_Orig_HO1.tif'

outpath = datapath + 'MyData'
Orig_HOT_Statistics = datapath + 'MyData\\Orig_HOT_Statistics.dbf'

arcpy.env.workspace = datapath + 'Data'
```



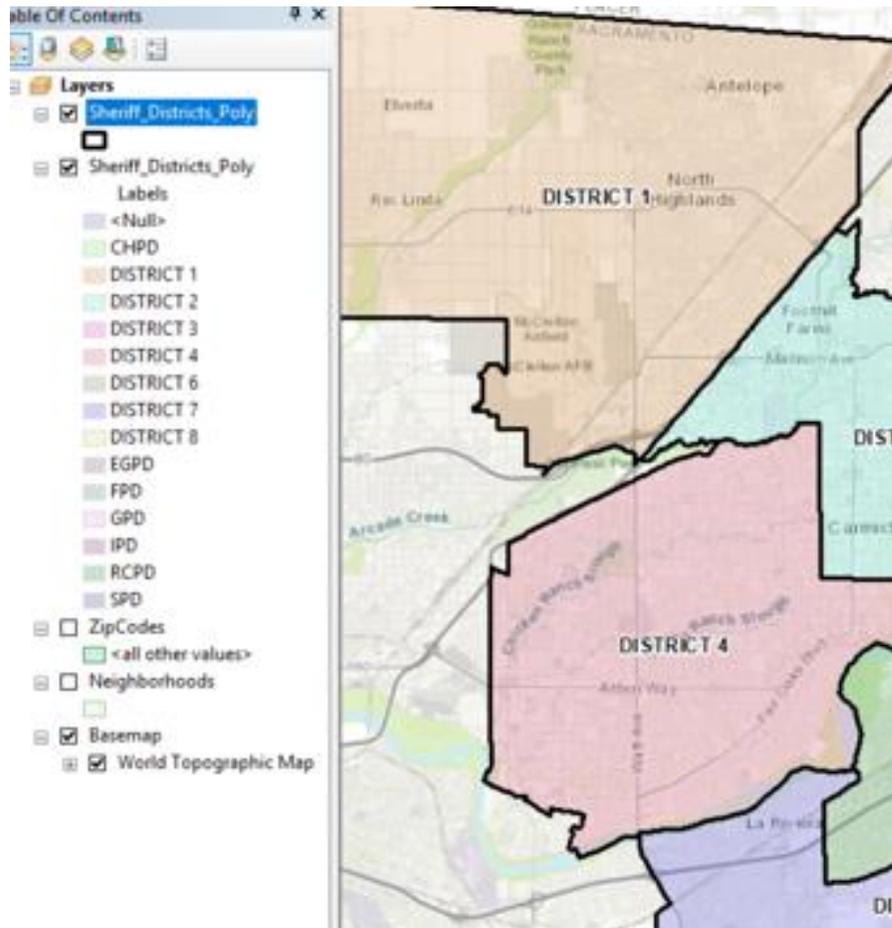
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## Script to Run the Homeless Quarterly Stats

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**MakeFeatureLayer and SelectByLocation on Districts:** The SelectByLocation would not work, I believe it has to something with my MakeFeatureLayer. I cannot determine what the problem is though. I get the same answer which is 15 in the print “Number of features in the query “ColorCode”. I get this when I have the MakeFeatureLayer commented out as well which is why I feel it has something to do with this part of the code. The code is on the next page.



This is what the TOC and the Sheriff’s polygon attribute table look like.

OBJECTID *	Shape *	ColorCode	SSD_District	DistrictNo	Muni	Labels
1	Polygon	CENTRAL	CENTRAL	6	SSD6	<Null>
2	Polygon	CENTRAL	CENTRAL	6	SSD6	DISTRICT 6
4	Polygon	EAST	EAST	7	SSD7	DISTRICT 7
5	Polygon	EAST	EAST	7	SSD7	DISTRICT 7
7	Polygon	CITY	IPD	<Null>	IPD	IPD
8	Polygon	CITY	IPD	<Null>	IPD	IPD
9	Polygon	NORTH CENTRAL	NORTH CENTRAL	4	SSD4	DISTRICT 4
10	Polygon	NORTHEAST	NORTHEAST	3	SSD3	DISTRICT 3
11	Polygon	NORTHWEST	NORTHWEST	1	SSD1	DISTRICT 1
12	Polygon	NORTHWEST	NORTHWEST	1	SSD1	DISTRICT 1
13	Polygon	RANCHO CORDOV	RCPD	5	RCPD	RCPD
16	Polygon	SOUTH	SOUTH	8	SSD8	DISTRICT 8
17	Polygon	SOUTH	SOUTH	8	SSD8	DISTRICT 8
18	Polygon	SOUTH	SOUTH	8	SSD8	DISTRICT 8
21	Polygon	NORTH	NORTH	2	SSD2	DISTRICT 2



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## Script to Run the Homeless Quarterly Stats

May 19, 2019

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**Cont'd - MakeFeatureLayer and SelectionByLocation on Districts:** At first I did a query using DistrictNo = 1, no luck. Next, I decided to do a query on the ColorCode. ColorCode = Northwest. It doesn't work. The query keeps giving me 15, the answer should be 2. At first I had the query after the Delete\_Management, I moved it to above the

Delete\_Management. Didn't work.

No matter what changes I make it gives me 15 and

The answer should be 2. The good news is I can use the other table to determine which district the Homeless calls for service fall in. Bad news, I never Got the SelectByLocation layer to work.

Could it be the table?

```
result = arcpy.GetCount_management(District_Area)
print "Number of features in the feature class " + District_Area + " : " + str(result)
```

```
querydistrict = """"ColorCode" = 'NORTHWEST'"""
```

```
if arcpy.Exists(District_Area_Layer):
    arcpy.Delete_management(District_Area_Layer)
```

```
arcpy.MakeFeatureLayer_management(District_Area, District_Area_Layer, querydistrict)
```

```
print "Number of features in the query " + querydistrict + ":" + str(result)
```

```
>>>
RESTART: C:\Users\Annette\Desktop\375_Python\01 Final Project\Work\Class Project
Script Map Automation\TEST FILE Revised with KD.py
Number of features in the raw data feature class Orig_HOT.shp : 748
Number of Call Types where the "Study_Flag" = 'TP' and "District" = 1 : 10
Copied selected attributes from Orig_HOT to C:\Users\Annette\Desktop\375_Python\
01 Final Project\Work\Class Project Script Map Automation\MyData\out_TP_attribut
es.dbf
Number of features in the feature class Sheriff_Districts_Poly.shp : 15
Number of features in the query "ColorCode" = 'NORTHWEST':15
DONE
>>> |
```



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## Script to Run the Homeless Quarterly Stats

### May 19, 2019

**Delete\_Management:** I wasn't using the Delete\_Management. After adding it, it worked.

```
>>>
RESTART: C:\Users\apoole\Desktop\Python\Class Project Script Map Automation\TEST FILE.py
Number of features in the raw data feature class Orig_HOT.shp : 748
Number of selected TP in the: "Study_Flag" = 'TP' layer with a query: 38
WORKS
ARCPY ERRORS:
Failed to execute. Parameters are not valid.
ERROR 000725: Output Table: Dataset C:\Users\apoole\Desktop\Python\Class Project Script Map Automation\Data\outTP.dbf already exists.
Failed to execute (CopyRows).

PYTHON ERRORS:
Traceback Info:
```

**Working:**

```
>>>
RESTART: C:/Users/Annette/Desktop/375_Python/01 Final Project/Work/Class Project Script Map Automation/TEST FILE Revised with KD.py
Number of features in the raw data feature class Orig_HOT.shp : 748
Number of Call Types where the "Study_Flag" = 'TP' and "District" = 1 : 10
Copied selected attributes from Orig_HOT to C:\Users\Annette\Desktop\375_Python\01 Final Project\Work\Class Project Script Map Automation\MyData\out_TP_at
tributes.dbf
Number of features in the feature class Sheriff_Districts_Poly.shp : 15
Number of features in the query "ColorCode" = 'NORTHWEST':15
Layer Name=Orig_HOT
```



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## Script to Run the Homeless Quarterly Stats

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Submitted By: Annette Poole

**Input Layers:** In this script, I could not get a count of the initial database. I replaced the layer with the actual database and it worked. I feel this is my biggest issue, determining when I use the layer or when I use the database.

```
>>>
RESTART: C:\Users\apoole\Desktop\Python\Class Project Script Map Automation\TEST FILE.py
Number of features in the raw data feature class Orig_HOT.shp : 748
Number of selected TP in the: "Study_Flag" = 'TP' layer with a query: 38
Copied selected attributes from Orig_HOT.shp to outTP.shp
Number of features in the feature class Sheriff_Districts_Poly.shp : 15
WORKS
ARCPY ERRORS:

PYTHON ERRORS:
Traceback Info:
File "C:\Users\apoole\Desktop\Python\Class Project Script Map Automation\TEST FILE.py", line 142, in <module>
    result = arcpy.GetCount_management(Original_Data_Layer)

Error Info:
<class 'Queue.Empty'>:
```

**Working:**

```
>>>
RESTART: C:/Users/Annette/Desktop/375_Python/01 Final Project/Work/Class Project Script Map Automation/TEST FILE Revised with KD.py
Number of features in the raw data feature class Orig_HOT.shp : 748
Number of Call Types where the "Study_Flag" = 'TP' and "District" = 1 : 10
Copied selected attributes from Orig_HOT to C:\Users\Annette\Desktop\375_Python\01 Final Project\Work\Class Project Script Map Automation\MyData\out_TP_at
tributes.dbf
Number of features in the feature class Sheriff_Districts_Poly.shp : 15
Number of features in the query "ColorCode" = 'NORTHWEST':15
Layer NameOrig HOT
```



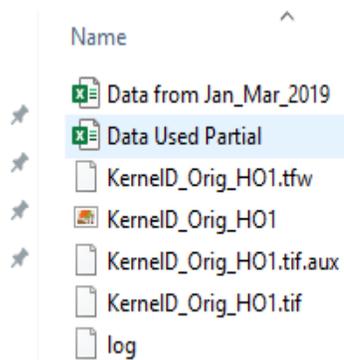
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**Kernel Density:** Creating the kernel density for my Study Flag TP points (homeless calls for service) was pretty straight forward. It worked as I see the .tif in the folder. Next I wanted to move the Kernel Density (.tif) to the table of contents. I used the MakeRasterLayer\_management. I assume the way to check this is to see if there is a layer in my TOC. There never was so I assume it never worked.



MakeRasterLayer\_management (in\_raster, out\_rasterlayer, {where\_clause}, {envelope}, {band\_index})

Parameter	Explanation	Data Type
in_raster	The path and name of the input raster dataset.	Composite Geodataset
out_rasterlayer	The name of the temporary output raster dataset.	Raster Layer

My in\_raster for the MakeRasterLayer was my outKernelDensity that was created with the Kernel Density tool. The out raster layer was named MakeRas\_kerneld2. However, the python script did print out DONE which makes it seem like it worked.



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## Script to Run the Homeless Quarterly Stats

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**Con't - Kernel Density:** Next I tried the Save Layer. The result of my Save Layer is Queue Empty.

```
arcpy.MakeRasterLayer_management(outKernelDensity, MakeRas_kernelld2)

if arcpy.Exists(kernellayer):
    arcpy.Delete_management(kernellayer)

SaveToLayerFile_management(outKernelDensity,kernellayer)
```

## Results:

```
RESTART: C:\Users\Annette\Desktop\375_Python\01 Final Project\Work\Class Project Script Map Automation\TEST FILE Revised with KD.py
Number of features in the raw data feature class Orig_HOT.shp : 748
Number of Call Types where the "Study_Flag" = 'TP' and "District" = 1 : 10
Copied selected attributes from Orig_HOT to C:\Users\Annette\Desktop\375_Python\01 Final Project\Work\Class Project Script Map Automation\MyData\out_TP_attributes.dbf
Number of features in the feature class Sheriff_Districts_Poly.shp : 15
Number of features in the query "ColorCode" = 'NORTHWEST':15
WORKS
ARCPY ERRORS:

PYTHON ERRORS:
Traceback Info:
File "C:\Users\Annette\Desktop\375_Python\01 Final Project\Work\Class Project Script Map Automation\TEST FILE Revised with KD.py", line 180, in <module>
    SaveToLayerFile_management(outKernelDensity,kernellayer)

Error Info:
<class 'Queue.Empty'>:
```



# Geography 375 – Python Course

## Script to Run the Homeless Quarterly Stats

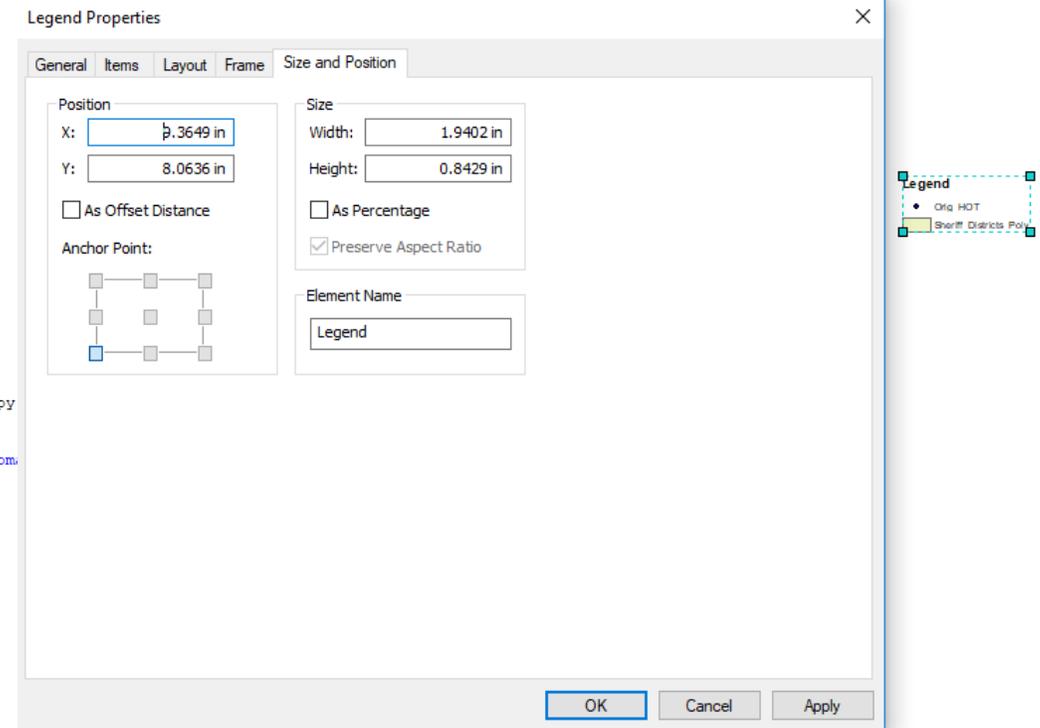
May 19, 2019

Submitted By: Annette Poole

**ListLayoutElements:** When using the function for the legend, I get “Queue.Empty”. That tells me there is no legend. I checked and there is. I double checked my paths. I ran this in a script with nothing running above it, still no luck.

```
####  
# Get a list of dataframes, only one  
dataframe = ListDataFrames(mxd, "Layers") [0]  
  
# Get a list of layers from the Table of Contents  
TOCLayers = ListLayers(mxd)  
  
for TOCLayer in TOCLayers:  
    print 'Layer Name' + str(TOCLayer.name)  
    DistrictLayer = TOCLayer  
  
legend = ListLayoutElements(mxd, 'LEGEND_ELEMENTS', 'Legend') [0]  
legend.autoAdd = True
```

```
>>>  
RESTART: C:/Users/Annette/Desktop/375_Python/01 Final Project/Work/Class Project Script Map Automation/TEST FILE Revised with KD.py  
Number of features in the raw data feature class Orig_HOT.shp : 748  
Number of Call Types where the "Study_Flag" = 'TP' and "District" = 1 : 10  
Copied selected attributes from Orig_HOT to C:\Users\Annette\Desktop\375_Python\01 Final Project\Work\Class Project Script Map Autom  
tributes.dbf  
Number of features in the feature class Sheriff_Districts_Poly.shp : 15  
Number of features in the query "ColorCode" = 'NORTHWEST':15  
Layer NameOrig_HOT  
Layer NameSheriff_Districts_Poly  
Layer NameZipCodes  
Layer NameNeighborhoods  
Layer NameBasemap  
Layer NameWorld Topographic Map  
Layer NameCitations  
WORKS  
ARCPY ERRORS:  
  
PYTHON ERRORS:  
Traceback Info:  
File "C:/Users/Annette/Desktop/375_Python/01 Final Project/Work/Class Project Script Map Automation/TEST FILE Revised with KD.py", line 190, in <module>  
    legend = ListLayoutElements(mxd, 'LEGEND_ELEMENTS', 'Legend') [0]  
  
Error Info:  
<class 'Queue.Empty'>
```





# Geography 375 – Python Course

## Script to Run the Homeless Quarterly Stats

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**Mapping Module:** I thought I wrote the code verbatim to Exercise 9 using the search cursor. But it didn't work. Seems go be a theme. Since that didn't work, I didn't to try The SelectbyAttribute Tool. Didn't work either.

### Using Search Cursor Results

```
RESTART: C:\Users\Annette\Desktop\375_Python\01 Final Project\Work\Class Project Script Map Automation\TEST FILE Revised with KD fromWorkcomoputer.py
Number of features in the raw data feature class Orig_HOT.shp : 748
Number of Call Types where the "Study_Flag" = 'TP' and "District" = 1 : 10
Copied selected attributes from Orig_HOT to C:\Users\Annette\Desktop\375_Python\01 Final Project\Work\Class Project Script Map Automation\MyData\out_TP_attr
ibutes.dbf
Number of features in the feature class Sheriff_Districts_Poly.shp : 15
Number of features in the query "ColorCode" = 'NORTHWEST':15
Layer NameOrig_HOT
Layer NameSheriff_Districts_Poly
Layer NameZipCodes
Layer NameNeighborhoods
Layer NameBasemap
Layer NameWorld Topographic Map
Layer NameCitations
WORKS
ARCPY ERRORS:

PYTHON ERRORS:
Traceback Info:
  File "C:\Users\Annette\Desktop\375_Python\01 Final Project\Work\Class Project Script Map Automation\TEST FILE Revised with KD fromWorkcomoputer.py", line
197, in <module>
    with arcpy.SearchCursor(DistrictLayer, field_name) as Drow:
Error Info:
  <class 'Queue.Empty'>:
```

### Using SelectByAttribute Results

```
>>>
RESTART: C:/Users/Annette/Desktop/375_Python/01 Final Project/Work/Class Project Script Map Automation/TEST FILE Revised with KD.py
Number of features in the raw data feature class Orig_HOT.shp : 748
Number of Call Types where the "Study_Flag" = 'TP' and "District" = 1 : 10
Copied selected attributes from Orig_HOT to C:\Users\Annette\Desktop\375_Python\01 Final Project\Work\Class Project Script Map Automation\MyData\out_TP_attr:
ibutes.dbf
Number of features in the feature class Sheriff_Districts_Poly.shp : 15
Number of features in the query "ColorCode" = 'NORTHWEST':15
Layer NameOrig_HOT
Layer NameSheriff_Districts_Poly
Layer NameZipCodes
Layer NameNeighborhoods
Layer NameBasemap
Layer NameWorld Topographic Map
Layer NameCitations
DONE
>>>
```



# Geography 375 – Python Course

## Script to Run the Homeless Quarterly Stats

May 19, 2019

Submitted By: Annette Poole

**Computer Issues:** On both my work and my home computer I get this error when I go to save a .mxd file. It doesn't always happen.

After I click “ok” on this map, then I get this error. I then just save it under another name and it works.

The first screenshot shows an ArcMap window with a map of a city area. A dialog box is open with the following text: "Unable to save. Check to make sure you have write access to the specified file and that there is enough space on the storage device to hold your document." The second screenshot shows the same ArcMap window, but the dialog box now says: "An unknown error occurred while accessing C:\Users\Annette\Desktop\375\_Python\01 Final Project\Work\Class Project Script Map Automation\Mapping\Map\_Homeless\_Template\_8.mxd."