Cleanse property class into smaller data set

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Data Gathering

- Professor Lehr sent me some information about how the land use codes (LUC) were organized
- The actual LUC and descriptions came from the volusia.parcel table which we already have been using for this course

First Steps

The first steps of the project were to identify all the LUCs and cross reference with information provided by Prof Lehr to make sure the information was correct before acting upon it

```
Select luc, luc_desc from volusia.parcel group by luc, luc_desc order by luc;
```

Data Output

	luc text	luc_desc text
1	0000	Vacant Resid...
2	0100	Single Family
3	0200	Mobile Homes
4	0300	Multi-Family(...
5	0400	Condominia
6	0500	Cooperatives
7	0800	Multi-Family(...
8	0900	Residential C...
9	1000	Vacant Com...

First Step cont.

This examination supported the file provided by Prof Lehr so I proceeded. The file he supplied me with looked at the first two digits of the LUC and determined the following:

- 00 – 09 are Residential
- 10 – 39 are Commercial
- 40 – 49 are Industrial
- 50 – 69 are Agricultural
- 70 – 79 are Institutional
- 80 – 89 are Governmental
- 90 – 97 are Misc.
- 98 is Centrally Assessed
- 99 is Non-Agricultural Acreage

Cleaning Data

Using this information, I developed the following script which preformed the cleaning required and added it into a new row on the parcel table

```
Alter table volusia.parcel add luc_generic_desc varchar(255);

Update volusia.parcel Set luc_generic_desc = 'RESIDENTIAL' where left(luc,1) = '0';
Update volusia.parcel Set luc_generic_desc = 'COMMERCIAL' where left(luc,1) = '1' or left(luc,1) = '2' or left(luc,1) = '3';
Update volusia.parcel Set luc_generic_desc = 'INDUSTRIAL' where left(luc,1) = '4';
Update volusia.parcel Set luc_generic_desc = 'AGRICULTURAL' where left(luc,1) = '5' or left(luc,1) = '6';
Update volusia.parcel Set luc_generic_desc = 'INSTITUTIONAL' where left(luc,1) = '7';
Update volusia.parcel Set luc_generic_desc = 'GOVERNMENTAL' where left(luc,1) = '8';
Update volusia.parcel Set luc_generic_desc = 'MISCELLANEOUS' where left(luc,1) = '9';
Update volusia.parcel Set luc_generic_desc = 'CENTRALLY ASSESSED' where left(luc,2) = '98';
Update volusia.parcel Set luc_generic_desc = 'NON-AGRICULTURAL ACREAGE' where left(luc,2) = '99';
```

Results

- The resulting column looked like this which is much nicer than the 87 distinct descriptions they had previously

```
Select luc_generic_desc from volusia.parcel group by luc_generic_desc;
```

Data Output

	luc_generic_desc character varying (255)
1	AGRICULTURAL
2	COMMERCIAL
3	GOVERNMENTAL
4	INDUSTRIAL
5	INSTITUTIONAL
6	MISCELLANEOUS
7	NON-AGRICULTURAL ACREAGE
8	RESIDENTIAL

Results Visualization

I added the file into QGIS to look what it would look like when visualized on the map.

The result is an obvious visual of the different land uses around the county and works exactly how it was expected to