

# Performing Table Joins

QGIS Tutorials and Tips



Author

Ujaval Gandhi

<http://google.com/+UjavalGandhi>

Translations by

SongHyun Choi



shapefile. Table Join` QGIS`



US Census Bureau` shapefile`



- CSV` .csvt`
- QGIS` CSV`



US Census Bureau MAF/TIGER` shapefile`

America FactFinder  
<<http://factfinder2.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>>`  
Advanced Search` CSV`  
Topic - Total Population` Geographies - All Census Tracts in California`  
Total Population 2010 Census Summary File 1`

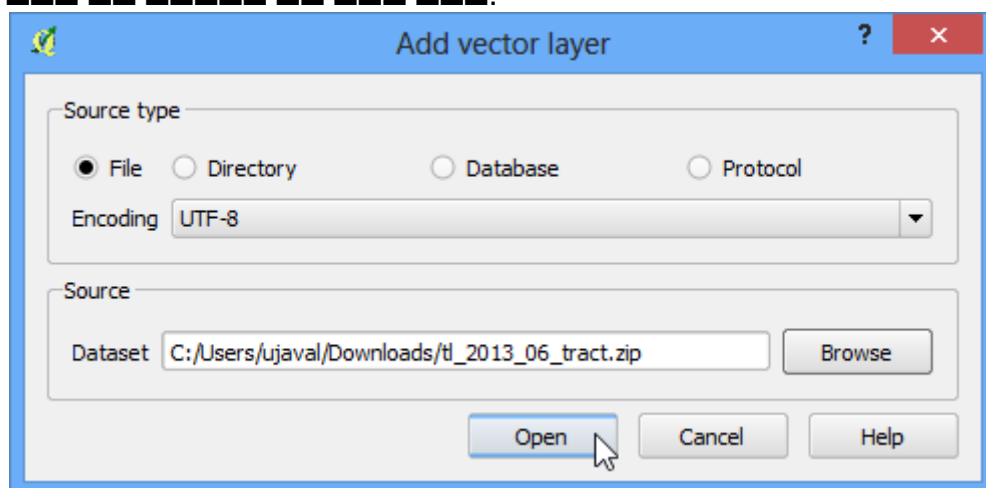
[TIGER] [USCENSUS]



1. shapefile` --> :menuselection: Layer --> Add Vector Layer`



2. `tl_2013_06_tract.zip` QGIS .



3. `tl_2013_06_tract.shp` :guilabel: 'OK' .





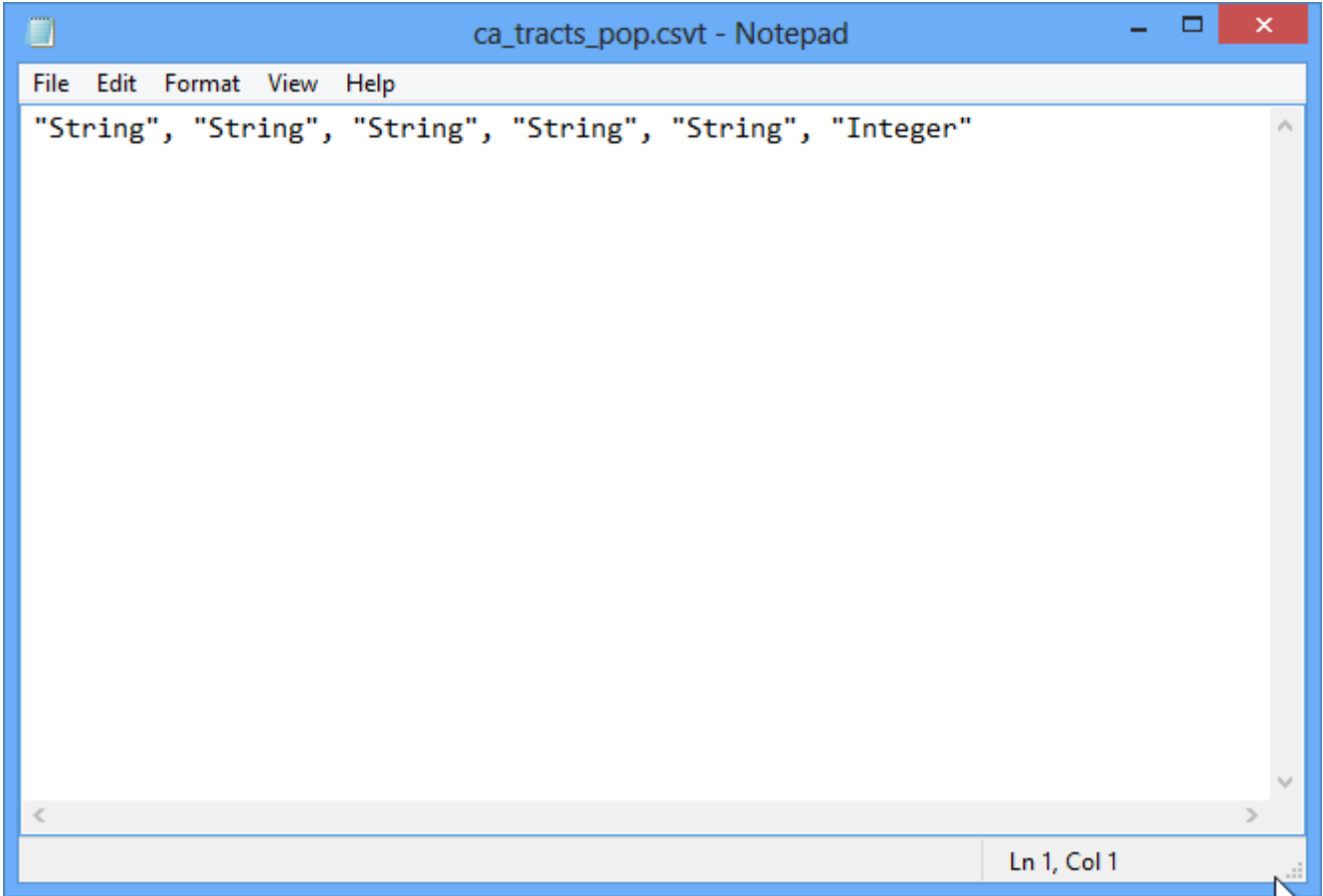
Attribute table - tl\_2013\_06\_tract :: Features total: 8057, filtered: 8057, selected: 0

|    | STATEFP | COUNTYFP | TRACTCE | GEOID       | NAME    | NAMESAD            | MTFCC |
|----|---------|----------|---------|-------------|---------|--------------------|-------|
| 0  | 06      | 001      | 442700  | 06001442700 | 4427    | Census Tract 44... | G5020 |
| 1  | 06      | 001      | 442800  | 06001442800 | 4428    | Census Tract 44... | G5020 |
| 2  | 06      | 037      | 204920  | 06037204920 | 2049.20 | Census Tract 20... | G5020 |
| 3  | 06      | 037      | 205110  | 06037205110 | 2051.10 | Census Tract 20... | G5020 |
| 4  | 06      | 037      | 205120  | 06037205120 | 2051.20 | Census Tract 20... | G5020 |
| 5  | 06      | 037      | 206010  | 06037206010 | 2060.10 | Census Tract 20... | G5020 |
| 6  | 06      | 037      | 206020  | 06037206020 | 2060.20 | Census Tract 20... | G5020 |
| 7  | 06      | 037      | 206050  | 06037206050 | 2060.50 | Census Tract 20... | G5020 |
| 8  | 06      | 037      | 207400  | 06037207400 | 2074    | Census Tract 20... | G5020 |
| 9  | 06      | 001      | 442900  | 06001442900 | 4429    | Census Tract 44... | G5020 |
| 10 | 06      | 037      | 192410  | 06037192410 | 1924.10 | Census Tract 19... | G5020 |
| 11 | 06      | 037      | 192510  | 06037192510 | 1925.10 | Census Tract 19... | G5020 |
| 12 | 06      | 037      | 192520  | 06037192520 | 1925.20 | Census Tract 19... | G5020 |
| 13 | 06      | 037      | 192610  | 06037192610 | 1926.10 | Census Tract 19... | G5020 |
| 14 | 06      | 037      | 192700  | 06037192700 | 1927    | Census Tract 19... | G5020 |
| 15 | 06      | 037      | 194500  | 06037194500 | 1945    | Census Tract 19... | G5020 |
| 16 | 06      | 037      | 195100  | 06037195100 | 1951    | Census Tract 19... | G5020 |
| 17 | 06      | 037      | 195300  | 06037195300 | 1953    | Census Tract 19... | G5020 |
| 18 | 06      | 001      | 443001  | 06001443001 | 4430.01 | Census Tract 44... | G5020 |
| 19 | 06      | 001      | 443002  | 06001443002 | 4430.02 | Census Tract 44... | G5020 |
| 20 | 06      | 001      | 443102  | 06001443102 | 4431.02 | Census Tract 44... | G5020 |
| 21 | 06      | 001      | 443301  | 06001443301 | 4433.01 | Census Tract 44... | G5020 |

Show All Features

7. ca\_tracts\_pop.csv CSV. GEO.id2\*\*D001





9. ■■■ QGIS ■ CSV■■■■ ■■■■ ■■■ ■■■■■. ■■ ■■■ --> ■■■■ ■■■ ■■■ ■■■■ ■■  
:menuselection: Layer --> Add Delimited Text Layer` ■ ■■■.





10. CSV (comma separated values) :guilabel:`File format` :guilabel:`CSV`  
 :guilabel:`No geometry (attribute only table)` :guilabel:`OK`





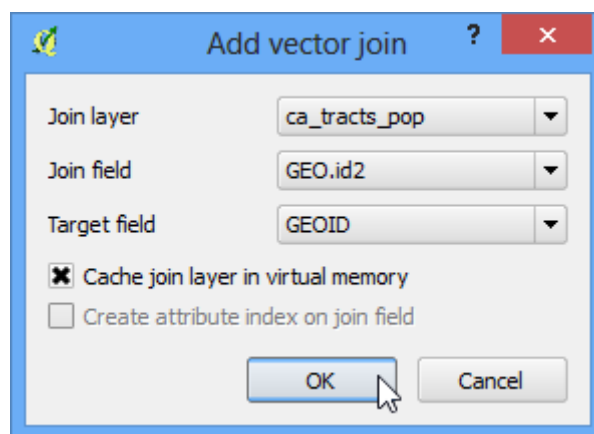
12. Select the *tl\_2013\_06\_tract* layer. Right-click on it and select *Properties*.



13. ■■■■ ■■ *Layer Properties* ■■■■■■■■ ■■ *Joins* ■■ ■■■■■■. ■■■■ ■■ ■■■■■■ ■■■■  
 ■■■■■■ + ■■■■ ■■■■■■.



14. Add vector join Join layer` `ca\_tracts\_pop` shapefile` CSV` id` :guiabel:`Join field` :guiabel:`Target field` `GEO.id2` `GEOID` :guiabel:`OK`



15. Layer Properties QGIS` CSV` shapefile` `tl\_2013\_06\_tract` :guiabel:`Open Attribute Table`



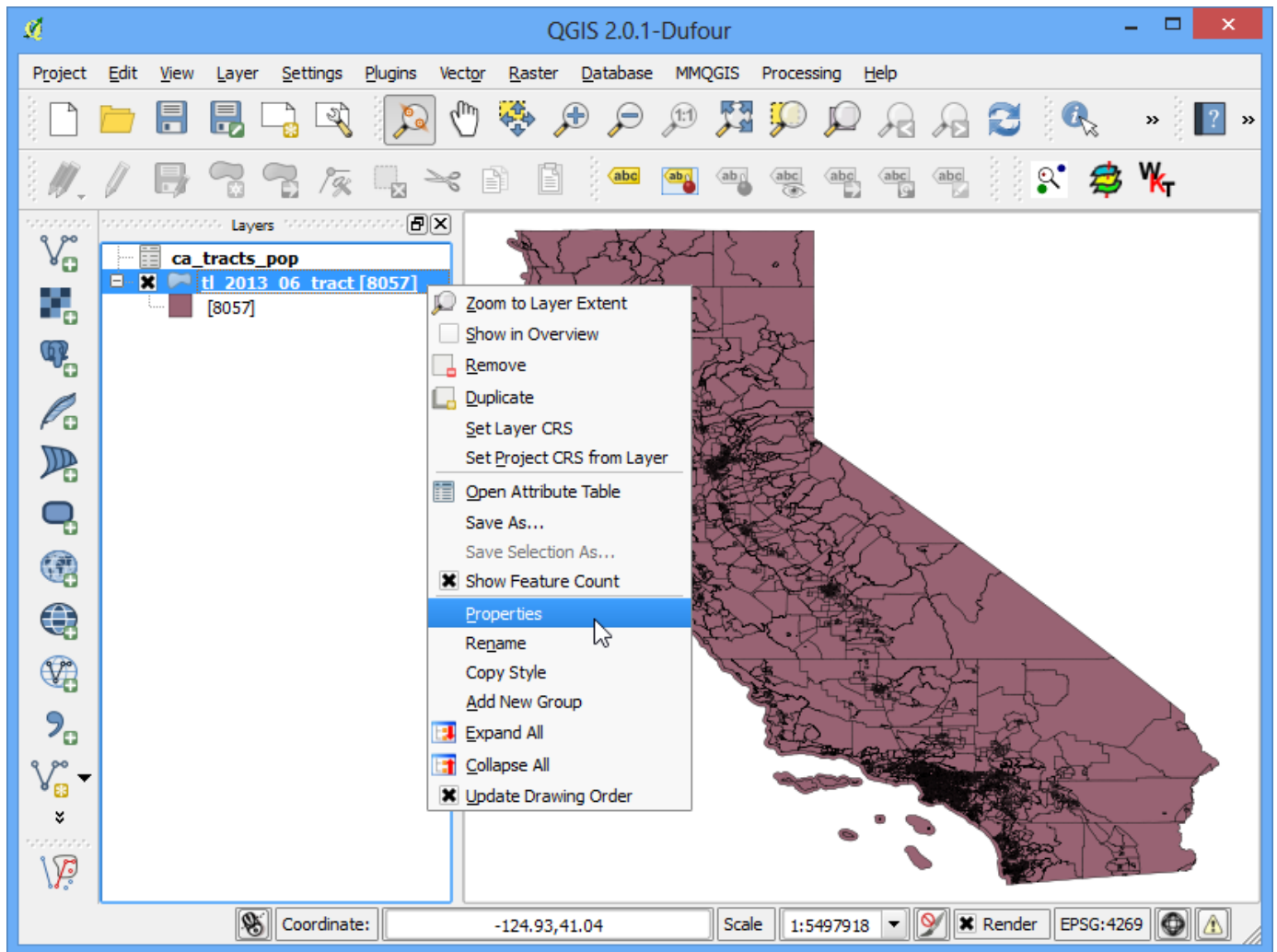
Attribute table - tl\_2013\_06\_tract :: Features total: 8057, filtered: 8057, selected: 0

|    | INTPTLAT    | INTPTLON     | tracts_pop_POPGRC | op_POPGROURdi    | tracts_pop_GEC | pop_GEQdis    | ca_tracts_pop_D001 |
|----|-------------|--------------|-------------------|------------------|----------------|---------------|--------------------|
| 0  | +37.5371514 | -122.0081094 | 001               | Total population | 1400000US06... | Census Tra... | 2873               |
| 1  | +37.5293619 | -121.9931002 | 001               | Total population | 1400000US06... | Census Tra... | 2816               |
| 2  | +34.0175004 | -118.1974975 | 001               | Total population | 1400000US06... | Census Tra... | 2598               |
| 3  | +34.0245059 | -118.2142985 | 001               | Total population | 1400000US06... | Census Tra... | 3766               |
| 4  | +34.0187546 | -118.2117956 | 001               | Total population | 1400000US06... | Census Tra... | 3618               |
| 5  | +34.0682177 | -118.2320356 | 001               | Total population | 1400000US06... | Census Tra... | 3127               |
| 6  | +34.0571230 | -118.2311021 | 001               | Total population | 1400000US06... | Census Tra... | 7883               |
| 7  | +34.0299036 | -118.2244531 | 001               | Total population | 1400000US06... | Census Tra... | 2146               |
| 8  | +34.0561941 | -118.2466502 | 001               | Total population | 1400000US06... | Census Tra... | 1363               |
| 9  | +37.5184093 | -121.9748369 | 001               | Total population | 1400000US06... | Census Tra... | 7194               |
| 10 | +34.0798577 | -118.3181008 | 001               | Total population | 1400000US06... | Census Tra... | 3628               |
| 11 | +34.0798690 | -118.3068568 | 001               | Total population | 1400000US06... | Census Tra... | 3670               |
| 12 | +34.0799255 | -118.3024972 | 001               | Total population | 1400000US06... | Census Tra... | 5067               |
| 13 | +34.0813650 | -118.2961539 | 001               | Total population | 1400000US06... | Census Tra... | 4389               |
| 14 | +34.0800134 | -118.2881064 | 001               | Total population | 1400000US06... | Census Tra... | 3513               |
| 15 | +34.0781753 | -118.3695958 | 001               | Total population | 1400000US06... | Census Tra... | 2037               |
| 16 | +34.1022274 | -118.2669741 | 001               | Total population | 1400000US06... | Census Tra... | 4717               |
| 17 | +34.0992506 | -118.2836893 | 001               | Total population | 1400000US06... | Census Tra... | 3203               |
| 18 | +37.5184218 | -121.9515237 | 001               | Total population | 1400000US06... | Census Tra... | 2917               |
| 19 | +37.5168344 | -121.9605916 | 001               | Total population | 1400000US06... | Census Tra... | 5918               |
| 20 | +37.5071943 | -121.9271475 | 001               | Total population | 1400000US06... | Census Tra... | 4611               |
| 21 | +37.4707325 | -121.9129556 | 001               | Total population | 1400000US06... | Census Tra... | 4074               |

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17. *tl\_2013\_06\_tract* :guilabel: Properties`.





18. `Style` `Graduated` `Column` `ca_tracts_pop_D001` `Color ramp` `Mode` `Quantile (Equal Count)` `Classify` `OK`





19. `guiLabel: Zoom in`



20. ■■■■■■■■ ■■■■ ■■■■ ■■■■ ■■■■ ■■■■. ■■■■ ■■■■ ■■■■ ■■■■ ■■■■ ■■■■ ■■■■  
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