

Performing Table Joins

QGIS Tutorials and Tips



Author

Ujaval Gandhi

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

Translations by

SongHyun Choi



000000 00 00 000000 **shapefile** 00 000000 000000 00000. 00 00000 0000 00 00000000
 00 0000 0000 00 00 000000 0000 0000 00000. 0 0000 0000 00 `Table Join` 00 0000 00 0
 0000000 **QGIS** 00 0000 0000 0000 00000000.



US Census Bureau shapefile.



- CSVファイルは、テキスト形式で保存されたデータファイル。拡張子は **.csv** である。
- QGISは、CSVファイルを読み込んで、地図上に表示することができる。



US Census Bureau MAF/TIGER shapefile

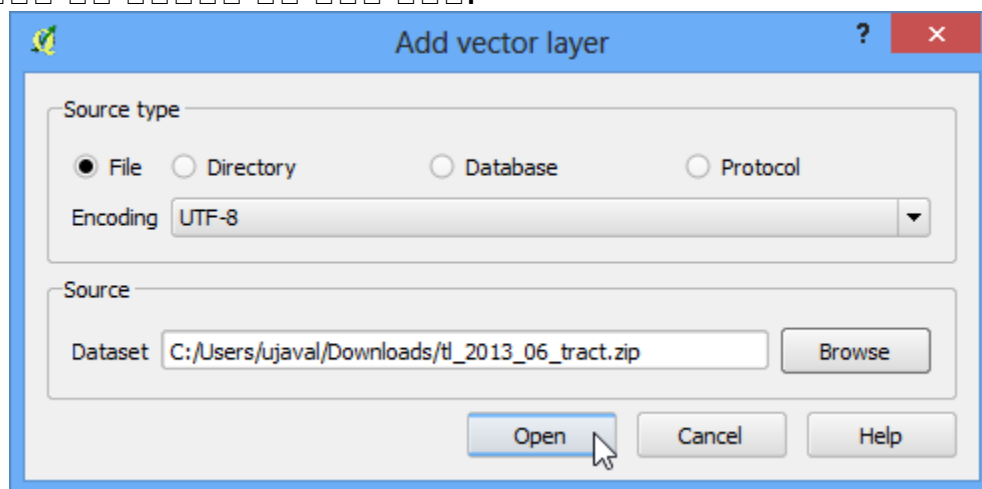
Americal FactFinder
 <<http://factfinder2.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>>`_□
 □□□ □□ □□ □□□ □□□□□. `Advanced Search` □ □□ □ □□ □□□ CSV □ □□ □□□□ □□
 □□ `Topic – Total Population` □ `Geographies – All Census Tracts in California` □ □□□ □
 □□□□. □ □□□□□ `Total Population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

□□□ □□ [TIGER] [USCENSUS]

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



2. 파일을 불러와서 `tl_2013_06_tract.zip`을 불러옵니다. QGIS에 불러오면 zip 파일이 아니라 shapefile로 인식됩니다. 이 때 shapefile을 불러오기 위해 'Layer' 메뉴에서 'Add Vector Layer...'를 선택합니다.



3. `tl_2013_06_tract.shp` 파일을 불러옵니다. :guilabel: `OK` 버튼을 클릭합니다.



6. □□ shapefile□ □□□ □□□□□□. □ shapefile□ □□□□ □□□□ □□□□ □ □□□ □□□□ □□□□ □□□□□□. □ □□□□ **GEOID**□□□□ □ □□□□ □□□□□□ □□ ID□ □□□□ □□ □□ □□□□ □ shapefile□ '□□' □ □ □□□□.



9. In QGIS, open the CSV file and load it into the map. Then, click on the "Layer" menu and select "Add Delimited Text Layer".



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

Create a Layer from a Delimited Text File

File Name:

Layer name: Encoding:

File format: ☒ CSV (comma separated values) ☐ Custom delimiters ☐ Regular expression delimiter

Record options: Number of header lines to discard: ☒ First record has field names

Field options: ☐ Trim fields ☐ Discard empty fields ☐ Decimal separator is comma

Geometry definition: ☐ Point coordinates ☐ Well known text (WKT) ☒ No geometry (attribute only table)

Layer settings: ☐ Use spatial index ☐ Use subset index ☐ Watch file

	POPGROUP.id	POPGROUP.display-label	GEO.id	GEO.id2	GEO.display-label
1	001	Total population	1400000US06001400100	06001400100	Census Tract 4001, Alameda County
2	001	Total population	1400000US06001400200	06001400200	Census Tract 4002, Alameda County
3	001	Total population	1400000US06001400300	06001400300	Census Tract 4003, Alameda County
4	001	Total population	1400000US06001400400	06001400400	Census Tract 4004, Alameda County
5	001	Total population	1400000US06001400500	06001400500	Census Tract 4005, Alameda County

11. CSV ☐ ☐ QGIS ☐ ☐ ☐ ☐ ☐.



12. Select the ***tl_2013_06_tract*** layer. Right-click on it and select Properties.



13. Click on Layer Properties and Joins. Click on the Join icon in the Layer Properties dialog. Click on the Join icon in the Layer Properties dialog.



14. Add vector join Join layer` `ca_tracts_pop`
 shapefile CSV id Join field` `Target field` `GEO.id2` `GEOID`
 :guilabel:`Join field` :guilabel:`Target field` :guilabel:`OK`



15. Layer Properties QGIS CSV shapefile
 `tl_2013_06_tract` :guilabel:`Open
 Attribute Table`



16. □□ ca_tracts_pop_D001 □□□ □ □□□ □□□ □□□ □ □ □□□□. □□ CSV□□□□□ □ □□□ □□□□ □□□□□. □□ □□□□ □□ QGIS□ □□□□□.

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

Show All Features

17. `tl_2013_06_tract` :guilabel: `Properties` .



18. Click Style in the Layer Properties dialog. The Style dialog box appears. :guilabel: `Graduated` is selected. :guilabel: `Column` is set to :guilabel: `ca_tracts_pop_D001`. :guilabel: `Color ramp` is set to :guilabel: `Mode` and :guilabel: `Quantile (Equal Count)`. :guilabel: `Classify` is checked. :guilabel: `OK` is clicked.



19. `guiLabel: 'Zoom in'`



20. □□□□□□ □□□□ □□□ □□□□□ □□□ □□□□. □□□ □□□ □□□□ □□□ □□□ □□□ □□□ □□□ □□□ □□□□.

