

# Performing Table Joins

## QGIS Tutorials and Tips



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Translations by

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

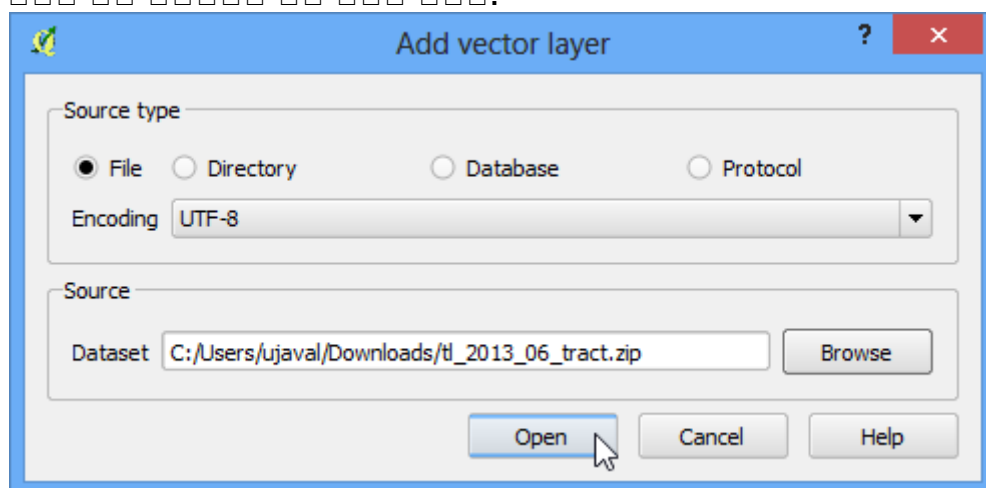
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1. □□□□ □□□ □□ shapefile□ □□□□□□. □□ □□□□ --> □□ □□□ □□ :menuselection: `Layer --> Add Vector Layer`□ □□□.



2. `tl_2013_06_tract.zip` को जोड़ें। QGIS में जोड़ें।  
 जोड़ें। `tl_2013_06_tract.zip` को जोड़ें।



3. `tl_2013_06_tract.shp` को जोड़ें :guilabel: 'OK' को जोड़ें।





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

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 file. It contains population data for each census tract in California. The file is organized by state (CA) and county (e.g., 001 for Alameda County). The columns include GEOID, NAME, and MTFC. The file is named `ca_tracts_pop.csv`.





9. In QGIS, open the CSV file in the previous step. In the main menu, go to **Layer --> Add Delimited Text Layer** and click **OK**.





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

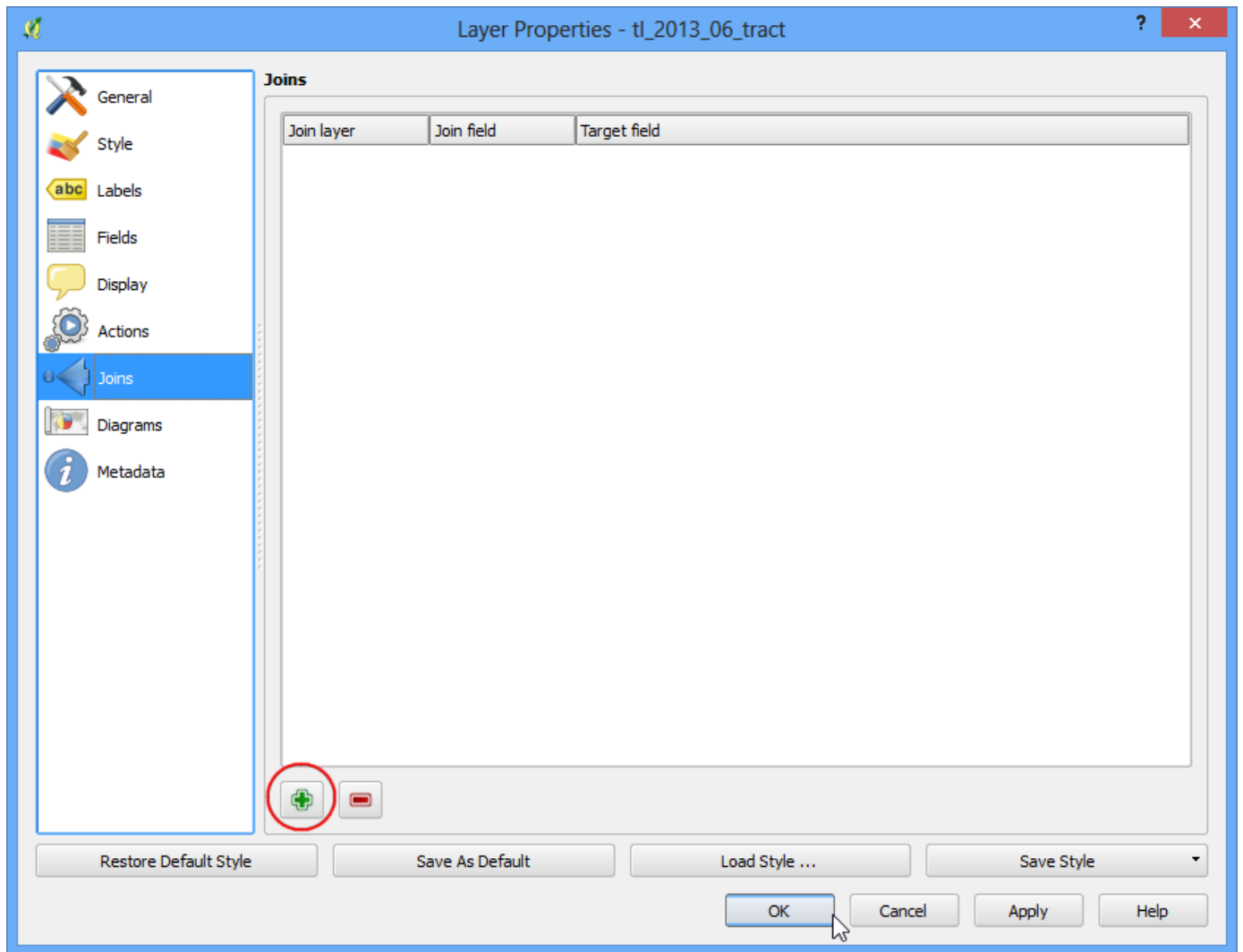
11. CSV ☐ ☐ QGIS ☐ ☐ ☐ ☐ ☐ ☐.



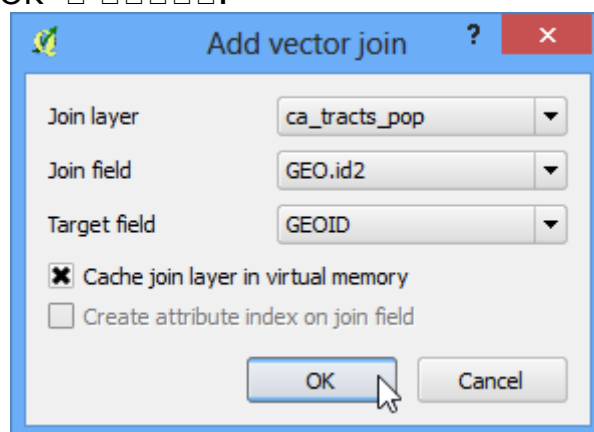
12. Select the ***tl\_2013\_06\_tract*** layer. Right-click on it and select Properties.



13. □□□ □□ Layer Properties □□□□□□ □□ Joins □□ □□□□□. □□□ □□ □□□□□ □□□  
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14. Click the '+' icon to add a new join. In the 'Join layer' dropdown, select 'ca\_tracts\_pop'. In the 'Join field' dropdown, select 'GEO.id2'. In the 'Target field' dropdown, select 'GEOID'. Click the 'OK' button.



15. Click the 'Open Attribute Table' button in the Layer Properties dialog box for the 'tl\_2013\_06\_tract' layer.



16. □□ ca\_tracts\_pop\_D001 □□□ □ □□□ □□□ □□□ □ □ □□□□. □□ CSV□□□□□ □ □□□ □□□□ □□□□□. □□ □□□□ □□ QGIS□ □□□□□.

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

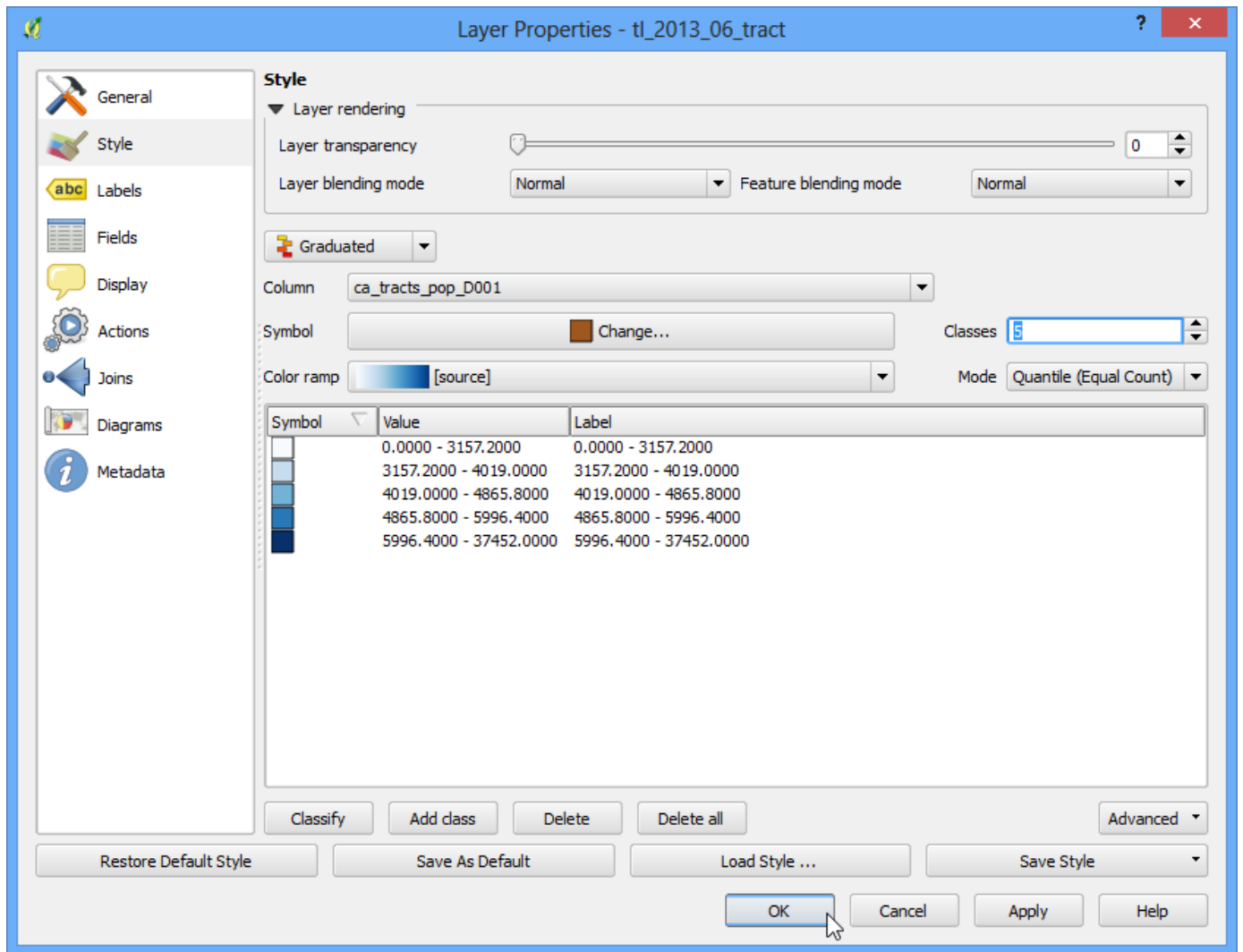
	INTPTLAT	INTPTLON	tracts_pop_POPGRC	op_POPGROURdi	tracts_pop_GEC	pop_GEQdis	ca_tracts_pop_D001
0	+37.5371514	-122.0081094	001	Total population	1400000US06...	Census Tra...	2873
1	+37.5293619	-121.9931002	001	Total population	1400000US06...	Census Tra...	2816
2	+34.0175004	-118.1974975	001	Total population	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` .







19. `zoom_in` 按钮的 `text` 属性为 `Zoom in`。



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