
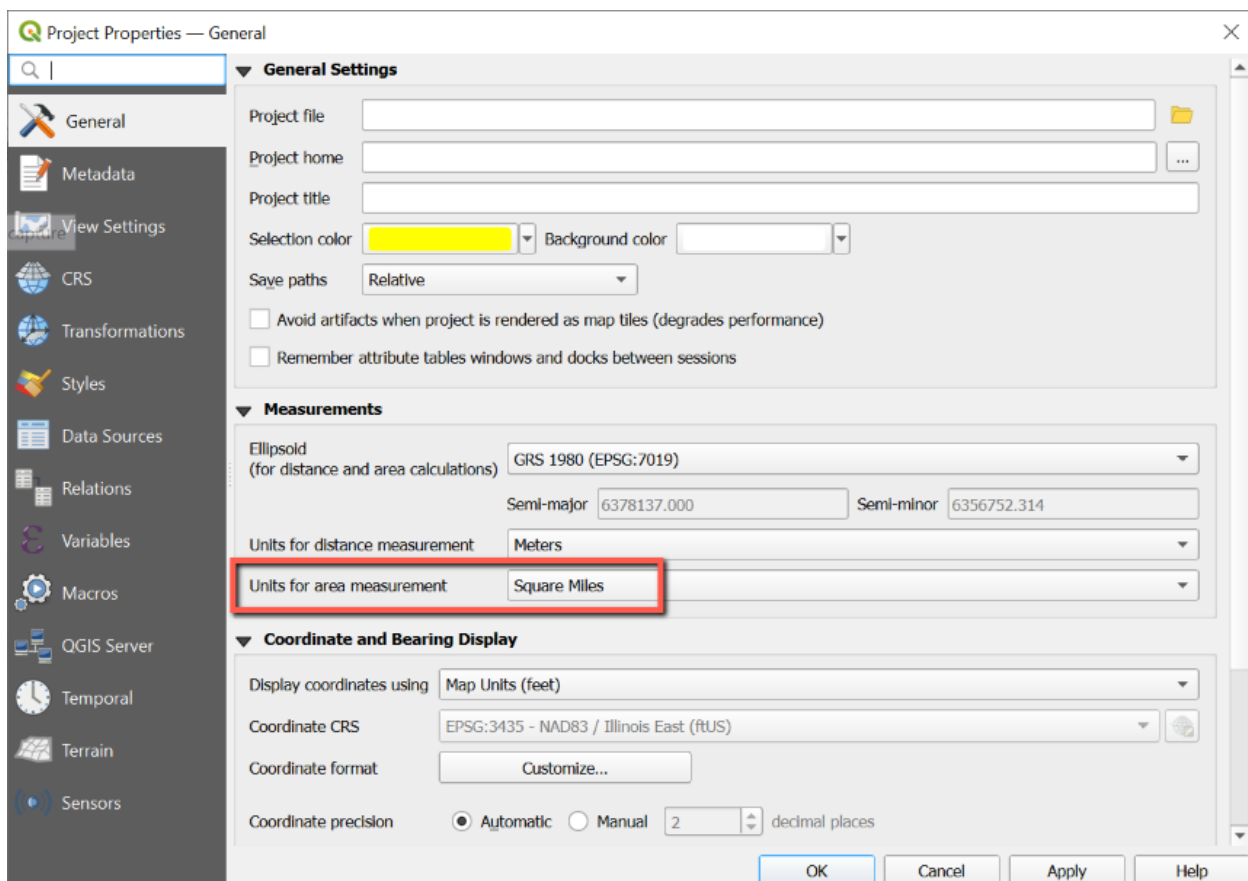
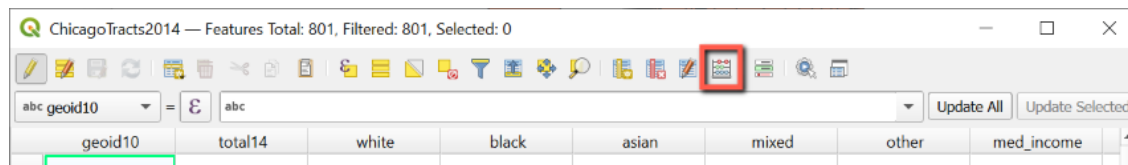


Use QGIS Field Calculator: Calculate Polygon Area

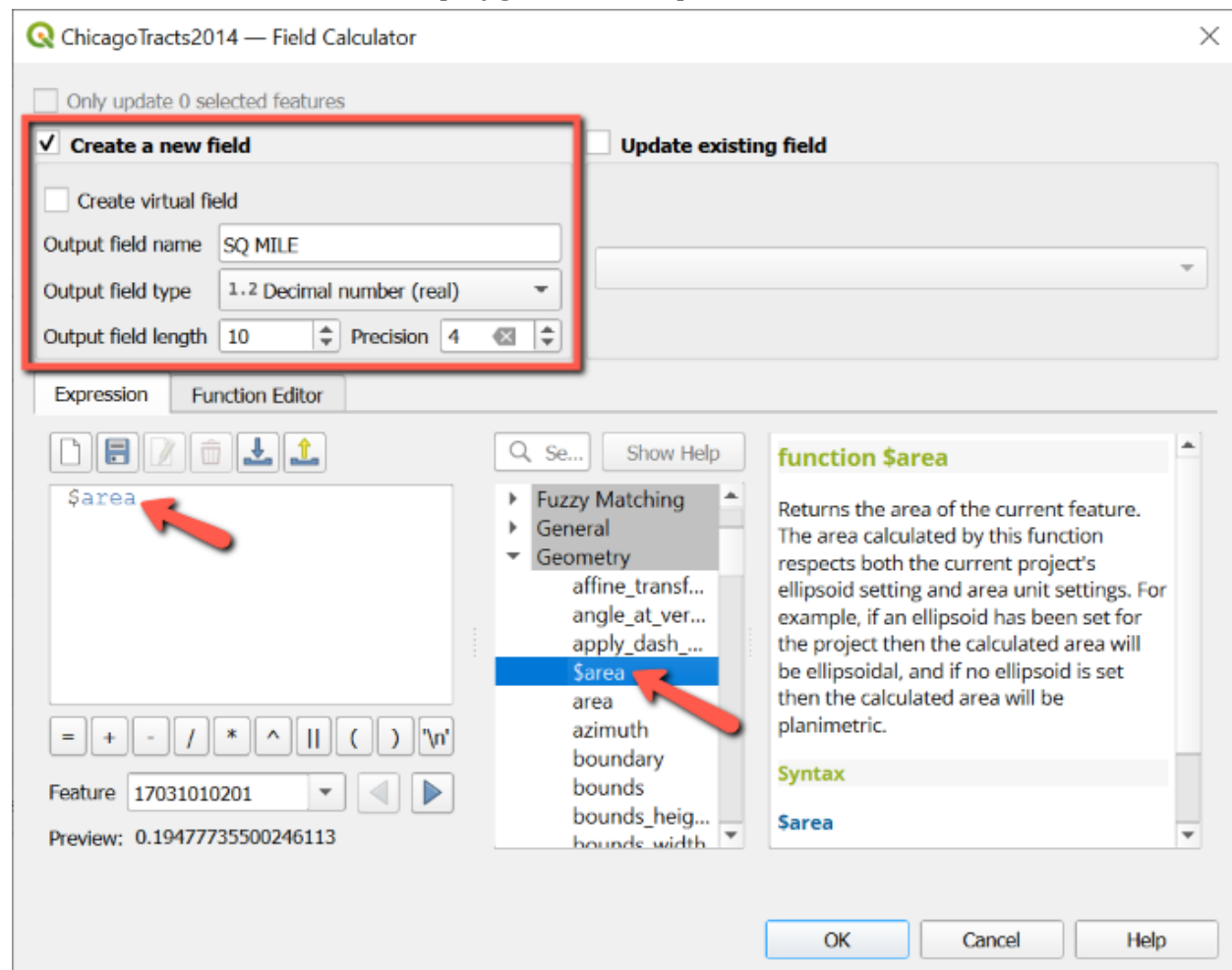
- Open QGIS Desktop and add the vector layer.
- In the Layers Panel, right-click on the layer and select **Open Attribute Table**.
- In the attribute table, click on the **Toggle editing mode** button . The editing mode allows you to make changes to the attribute table, such as *creating a new column* or *deleting an existing column*.
- Now, we are about to create a new field to calculate polygon areas in **square miles**. Before doing this in QGIS, we need to figure out the area unit.
 - In the main QGIS window, select **Project > Properties > General**.
 - The default area measurement unit is shown under **Measurements**. The Chicago layer is in Square meters. Use the dropdown menu to select **Square miles** and click **OK** to apply the change.




- Return to the layer's attribute table, click on the **Open field calculator** button .



- In the Field calculator window, make the following changes:
 - Check the box next to **Create a new field** (we will create a new field to hold the area values)
 - Set the Output field name as **SQ MILE** (this is the name of the new field)
 - Set the Output field type as **Decimal number (real)** (the data type of the new field)
 - Set Output field width as **10 (total number of digits)**, Precision as **4 (number of decimal places)**
 - Enter the Expression to calculate **\$area**. You may double-click the \$area function from the **Geometry** section to add it.
 - Click **OK** to calculate the polygon area in square miles.



- Be sure to save your changes by clicking on the **Save Edits** button .


ChicagoTracts2014 — Features Total: 801, Filtered: 801, Selected: 0

abc geoid10 = abc

Update All Update Selected

| | | white | black | asian | mixed | other | med_income | Shape_Leng | Shape_Area |
|---|---|-------|-------|-------|-------|-------|------------|------------------|------------------|
| 1 | 9 | 2073 | 1687 | 162 | 174 | 93 | 30798 | 9313.26123645... | 4101805.94674... |
| 2 | 3 | 3198 | 3545 | 148 | 135 | 57 | 40532 | 9303.49356826... | 5430178.78447... |
| 3 | 2 | 1099 | 839 | 248 | 84 | 232 | 25250 | 8288.36403647... | 3785954.30248... |
| 4 | 3 | 3429 | 1806 | 741 | 84 | 153 | 42606 | 9858.64592230... | 5080878.90328... |
| 5 | 0 | 3427 | 660 | 395 | 155 | 93 | 38531 | 15917.1519392... | 12393434.9572... |
| 6 | 1 | 2330 | 1190 | 100 | 194 | 17 | 26157 | 6869.00256530... | 2175993.86923... |
| 7 | 0 | 2123 | 595 | 638 | 88 | 246 | 33340 | 6187.59275451... | 1941492.98772... |

Show All Features

- Then click on the **Toggle editing mode** button  again to exit the editing mode. Then close the attribute table.