
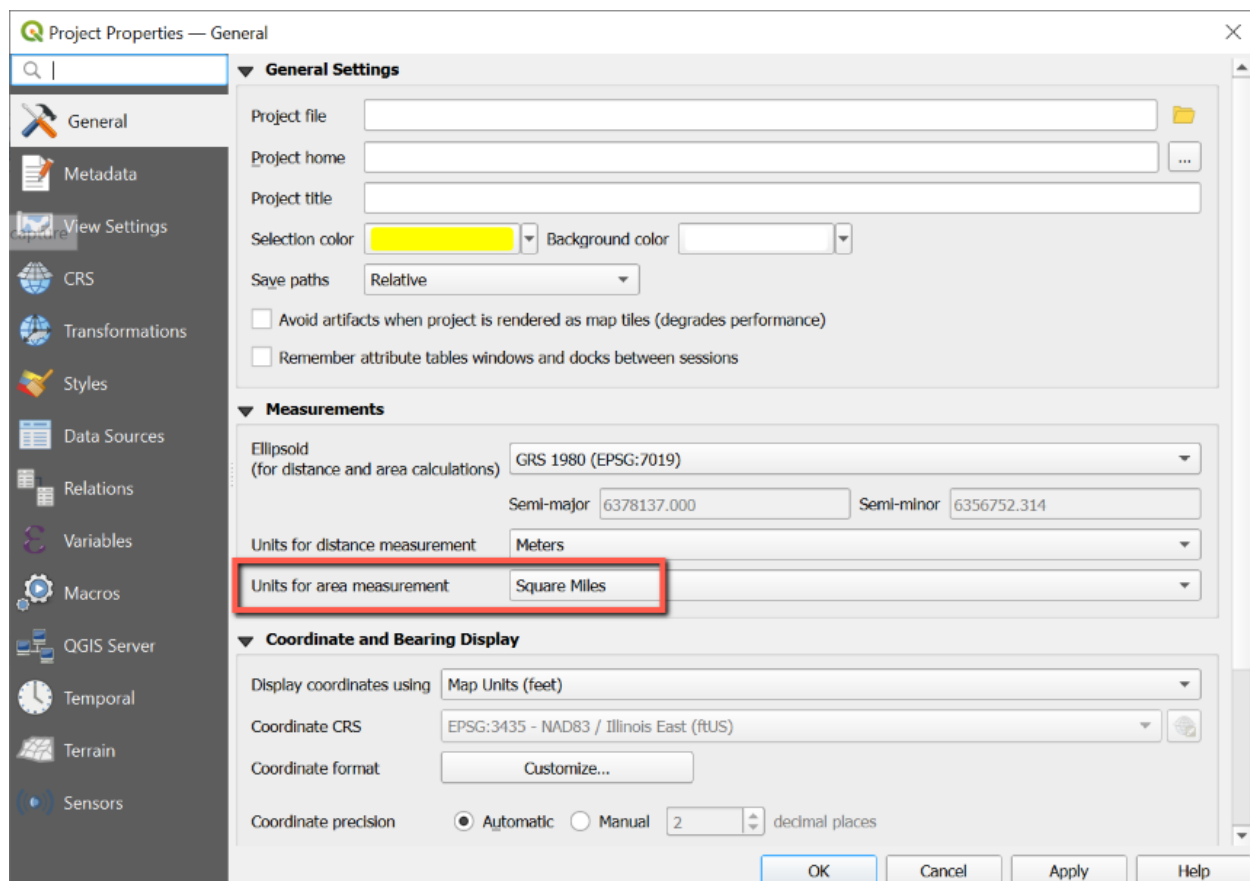
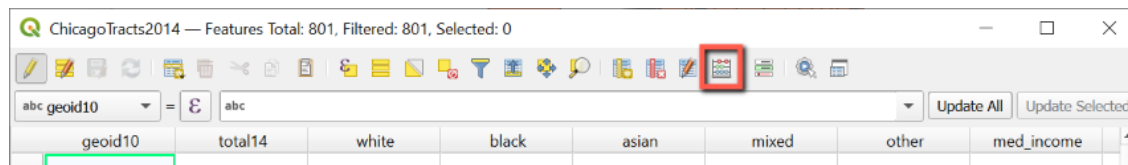


Use QGIS Field Calculator: Calculate Polygon Area

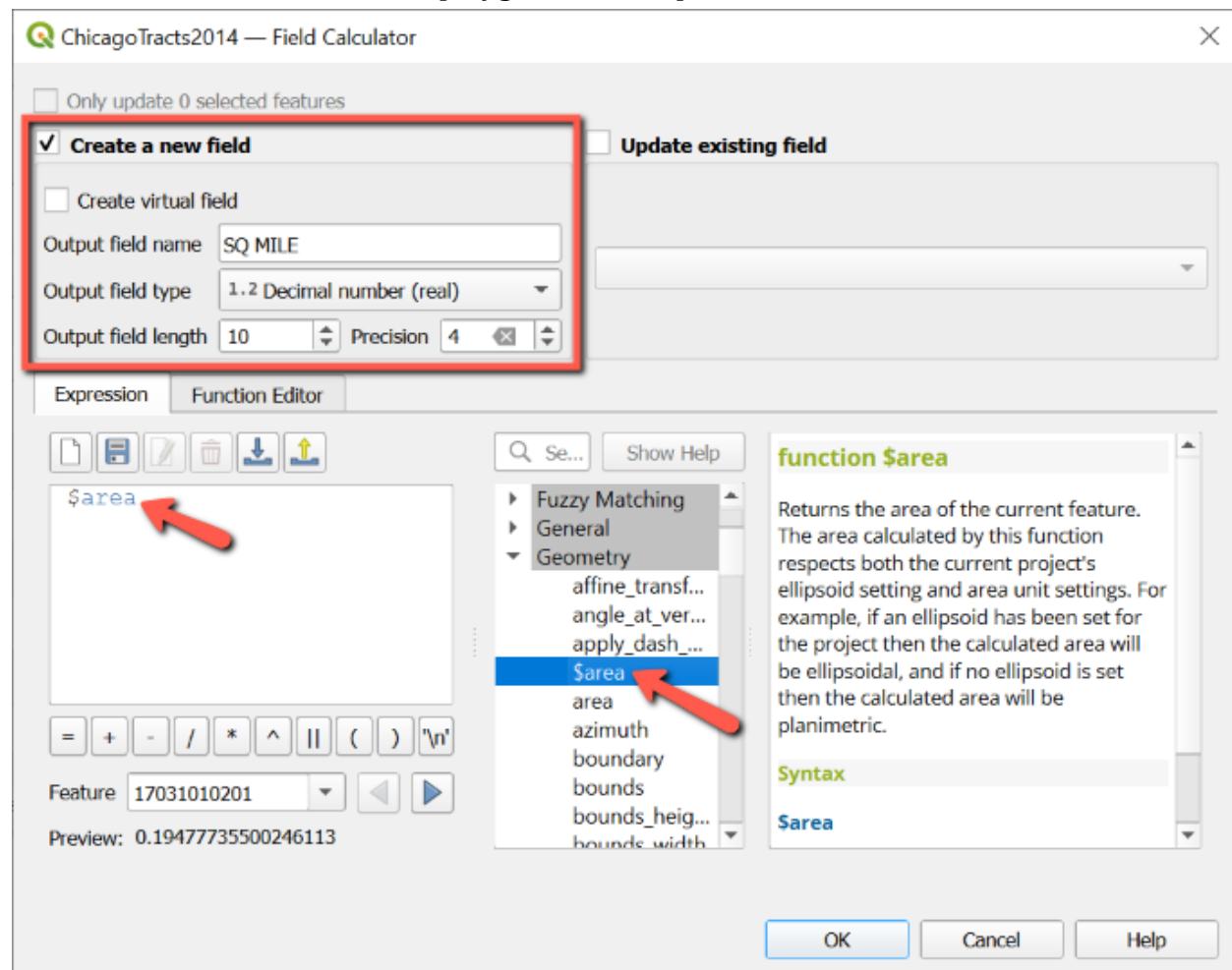
- Open **QGIS Desktop** and add the vector layer.
- In the Layers Panel, right-click on the layer and select **Open Attribute Table**.
- In the attribute table, click on the **Toggle editing mode** button . The editing mode allows you to make changes to the attribute table, such as *creating a new column* 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.