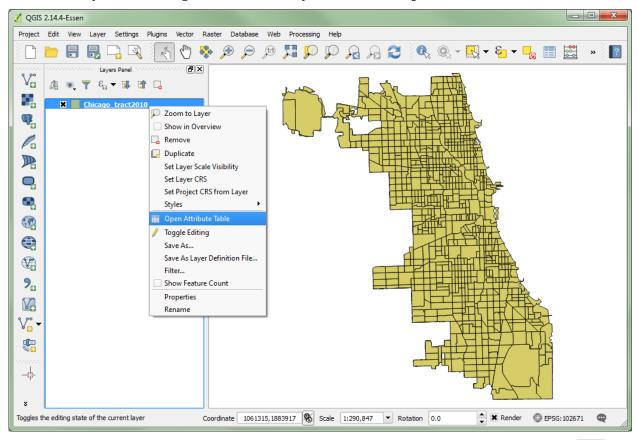
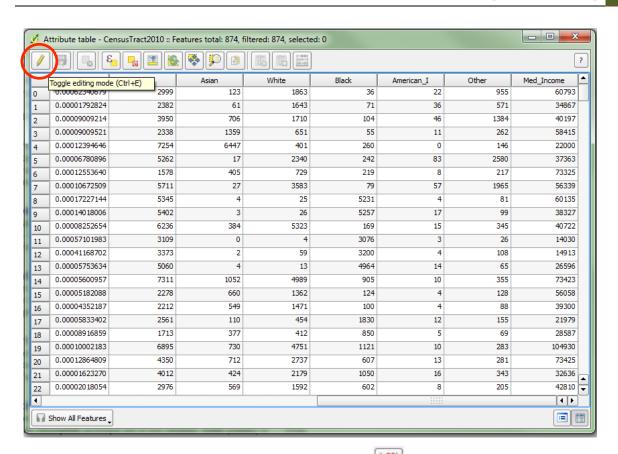
Use QGIS Field Calculator: Calculate Polygon Area

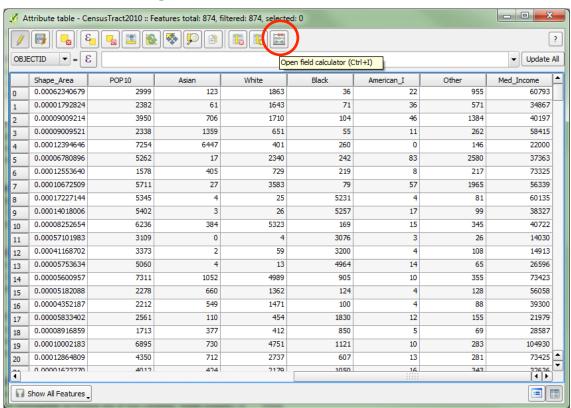
- Open QGIS Desktop and Add the Vector Layer
- In the Layers Panel, right-click on the layer and select **Open Attribute Table**.



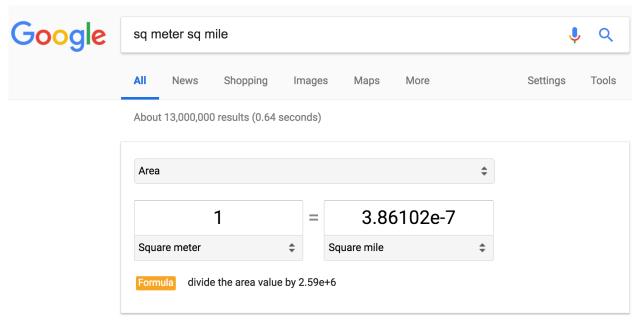
• In the Attribute Table dialog window, click on the **Toggle editing mode** button (see image below). The editing mode will allow you to make changes to the attribute table, such as *creating a new column* or *deleting an existing column*.



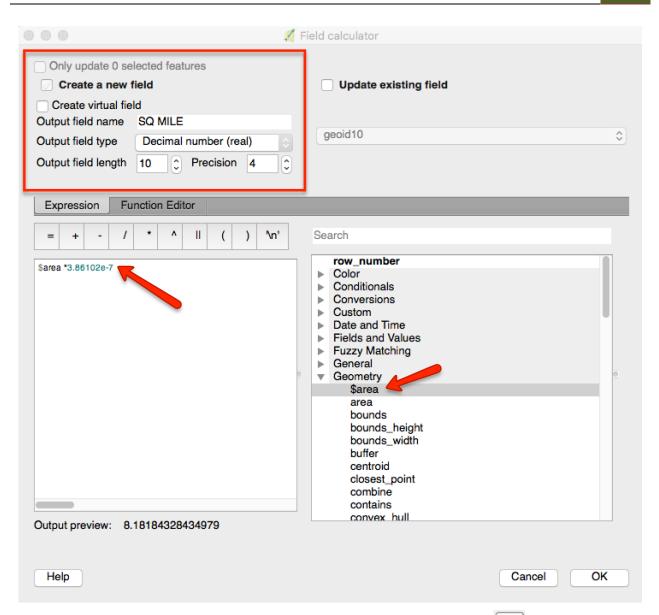
• Then click on the **Open field calculator** button



- Now, we are about to create a new field to calculate polygon areas in **square miles**.
 - o Before doing this in QGIS, we need to figure out the formula to be used.
 - First, check the map unit under Project Properties > General
 - The default area measurement unit is shown under **Measurements.** The Chicago layer is in **square meters**.
 - o To get square miles instead, I looked up the formula on Google:

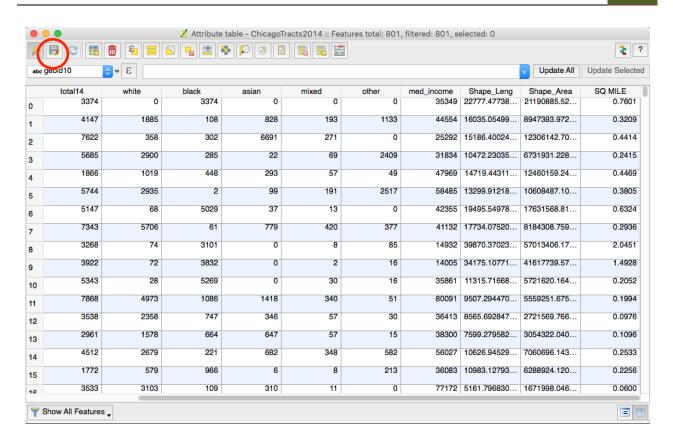


- This basically tells us that we could calculate square mile by multiplying the square meters values by 3.86102e-7
- In the Field calculator window, make the following changes:
 - Check the box next to Create a new field (we will create a new field to hold the area values)
 - o Set the Output field 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 * 3.86102e-7". You may double-click the \$area function from the **Geometry** section to add it. And you may complete the rest of the expression using your keyboard.
 - Click **OK** to calculate the polygon area in square miles.



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

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