

# Creating Heatmaps

## QGIS Tutorials and Tips



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QGIS 2.0.1-Dufour - This is the first version of QGIS 2.0.1-Dufour. It is a free and open source GIS software. It is designed to be a replacement for ArcGIS. It is a multi-platform application. It is available for Windows, Mac OS X, and Linux. It is a powerful tool for GIS professionals. It is a good choice for those who want a free and open source GIS software.



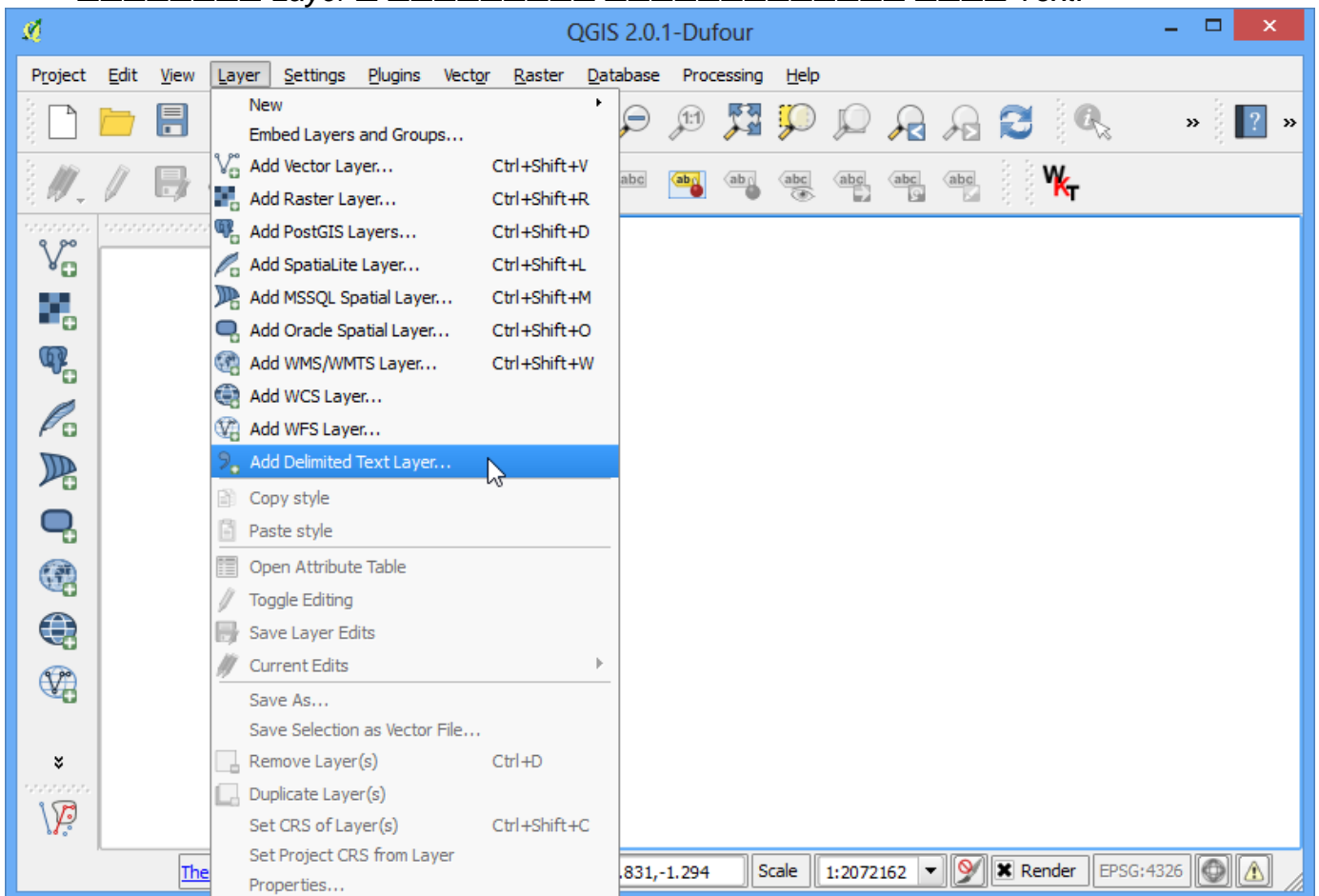
QGIS 2.0.1-Dufour is a free and open source GIS software. It is designed to be a replacement for ArcGIS. It is a multi-platform application. It is available for Windows, Mac OS X, and Linux. It is a powerful tool for GIS professionals. It is a good choice for those who want a free and open source GIS software.



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2. Police-uk-crime-data-surrey.txt CSV (Easting Northing Use OK.

Create a Layer from a Delimited Text File

File Name: C:/Users/ujaval/Downloads/police-uk-crime-data-surrey/police-uk-crime-data-surrey.txt Browse...

Layer name: police-uk-crime-data-surrey Encoding: UTF-8

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

Record options: Number of header lines to discard: 0 ☒ 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)

X field: Easting Y field: Northing ☐ DMS coordinates

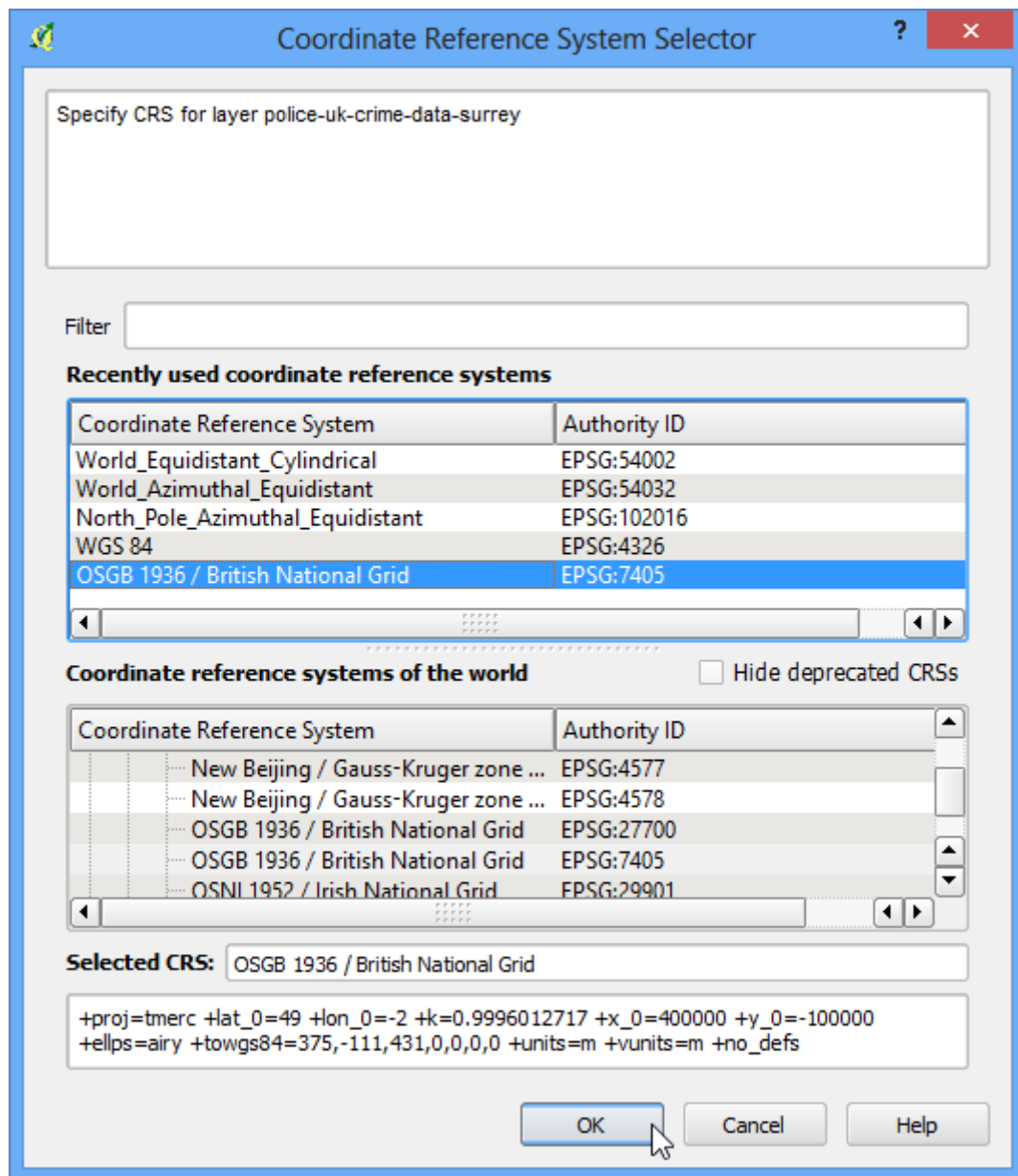
Layer settings: ☒ Use spatial index ☐ Use subset index ☐ Watch file

	ID	Month	Reported by	Falls within	Easting	Northing	Location	Crime type	Conte
1	480097	2010-12	Surrey Police	Surrey Police	532773.00	156680.00	On or near Addison Road	Burglary	
2	480098	2010-12	Surrey Police	Surrey Police	498361.00	149806.00	On or near The Oval	Burglary	
3	480099	2010-12	Surrey Police	Surrey Police	498205.00	165251.00	On or near Albury Close	Burglary	
4	480100	2010-12	Surrey Police	Surrey Police	507437.00	174069.00	On or near Sanctuary Road	Burglary	
5	480101	2010-12	Surrey Police	Surrey Police	498205.00	165251.00	On or near Albury Close	Burglary	

OK Cancel Help

3. , Close.

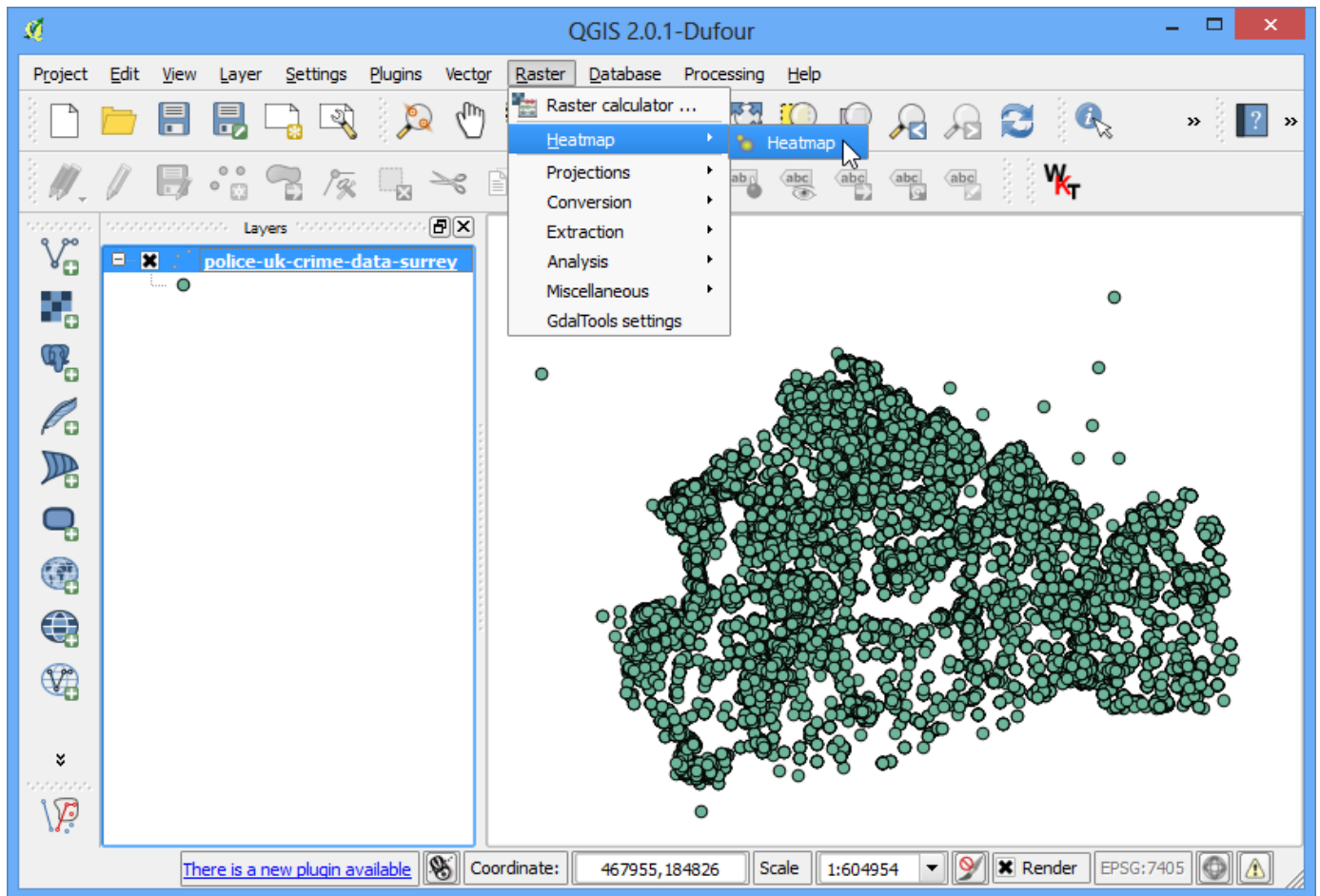




5. ■■■■■■■■ ■■ ■■■■■■■■ ■■■■■■■■ ■■■■■■■■ ■■■■■■■■■■■■■■■■ ■■ QGIS.





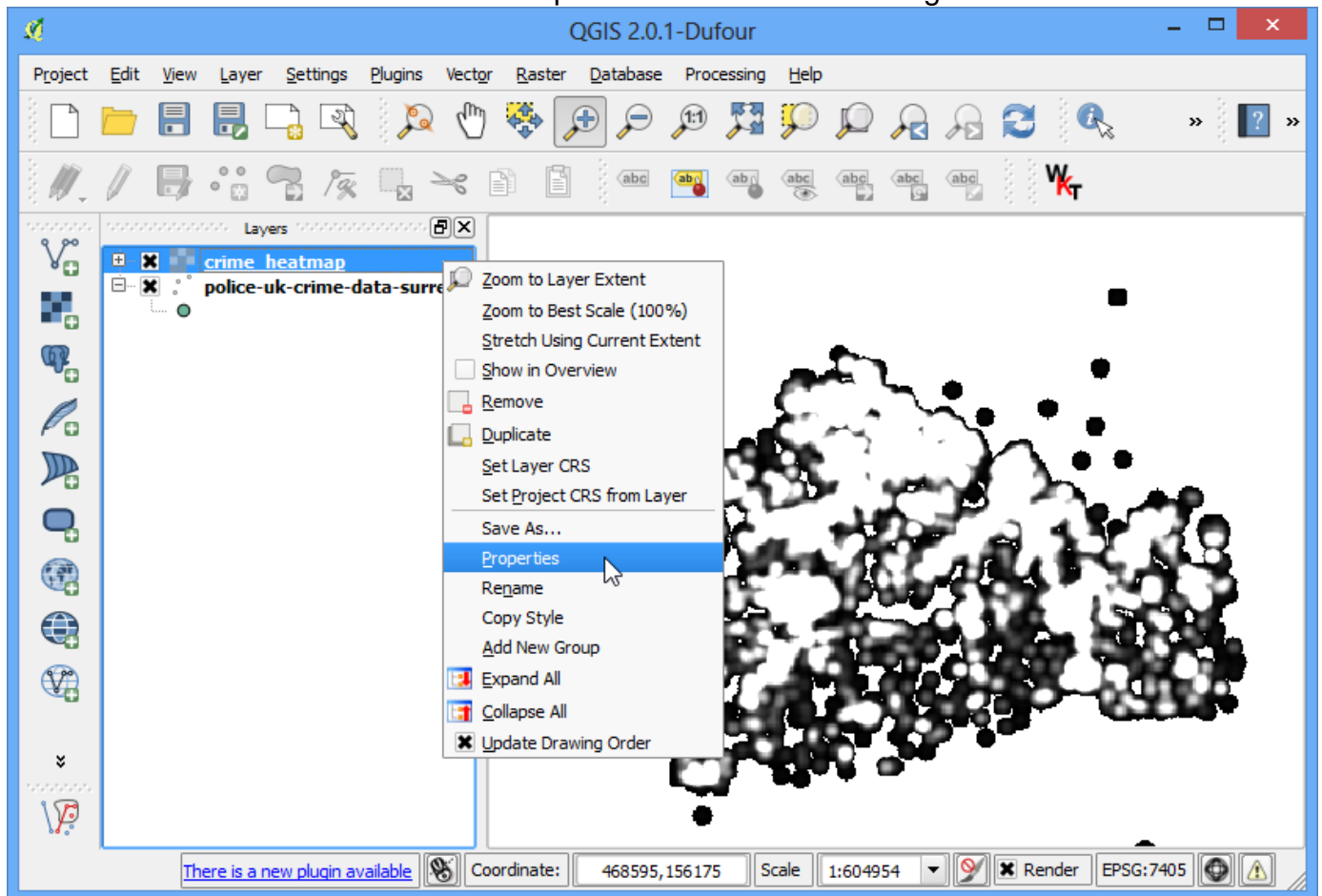


8. ■ Heatmap ■■■■■■■■■■ ■■■■■■■■■■, ■■■■■■■■■■ crime\_heatmap ■■■ ■■■■ Output ■■■■■. ■■■■■■■■■■ 1000 ■■■■■■■■■■ ■■■■■■■■■■ Radius. ■■■■■■■■■■ - ■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■, ■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■, ■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■. ■■■■■■■■■■ Advanced ■■■ ■■ ■■■■■■■■■■ ■■■■■■■■■■ output ■■■■■■■■■■ ■■■■■■■■■■ heatmap. ■■■■■■■■■■ 100 ■■■■ Cell ■■■■■■■■■■ X ■ Cell ■■■■■■■■■■ Y. ■■■■■■■■■■ OK.



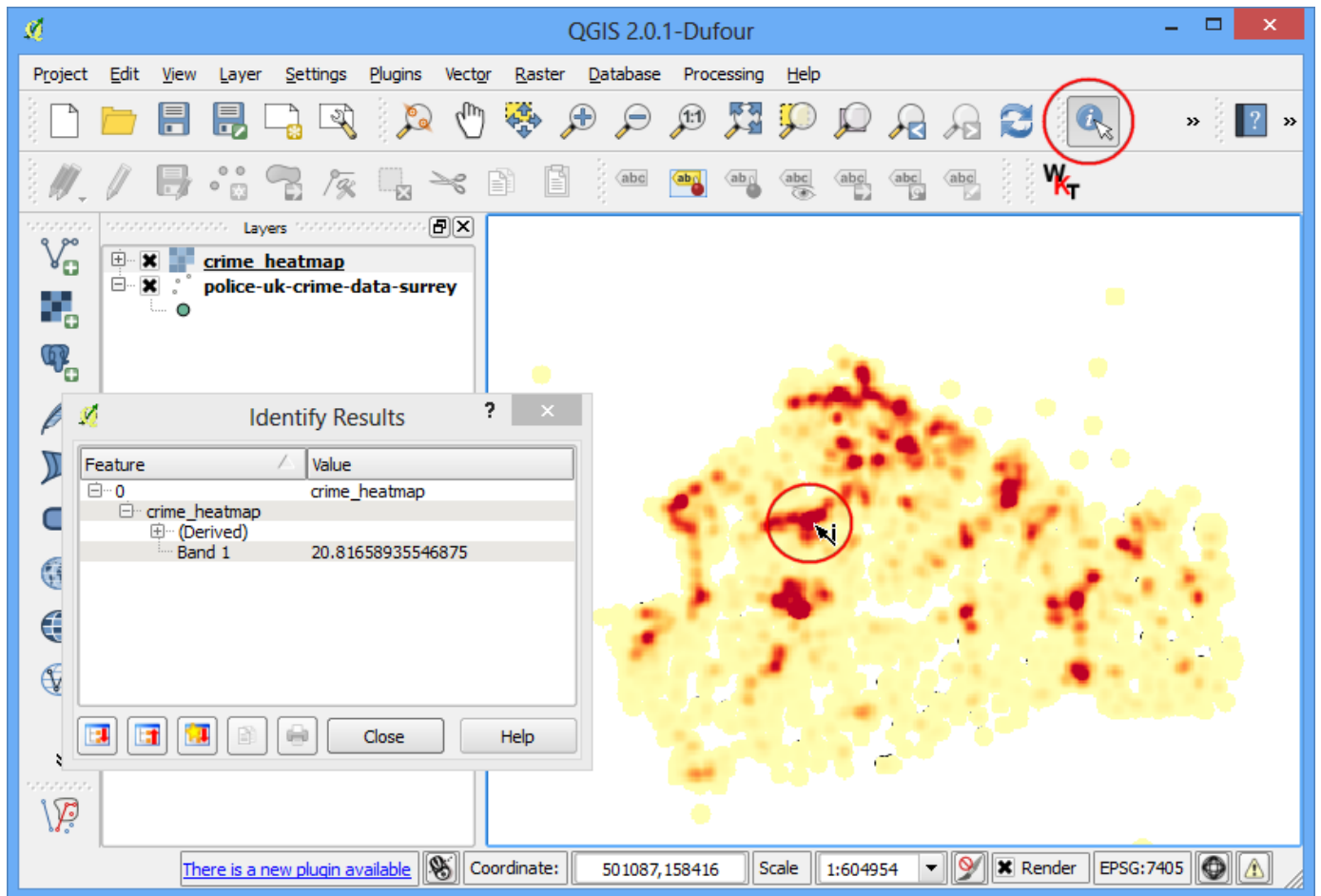


10. `heatmap` `heatmap`, `heatmap`, `heatmap` : `guilabel`.

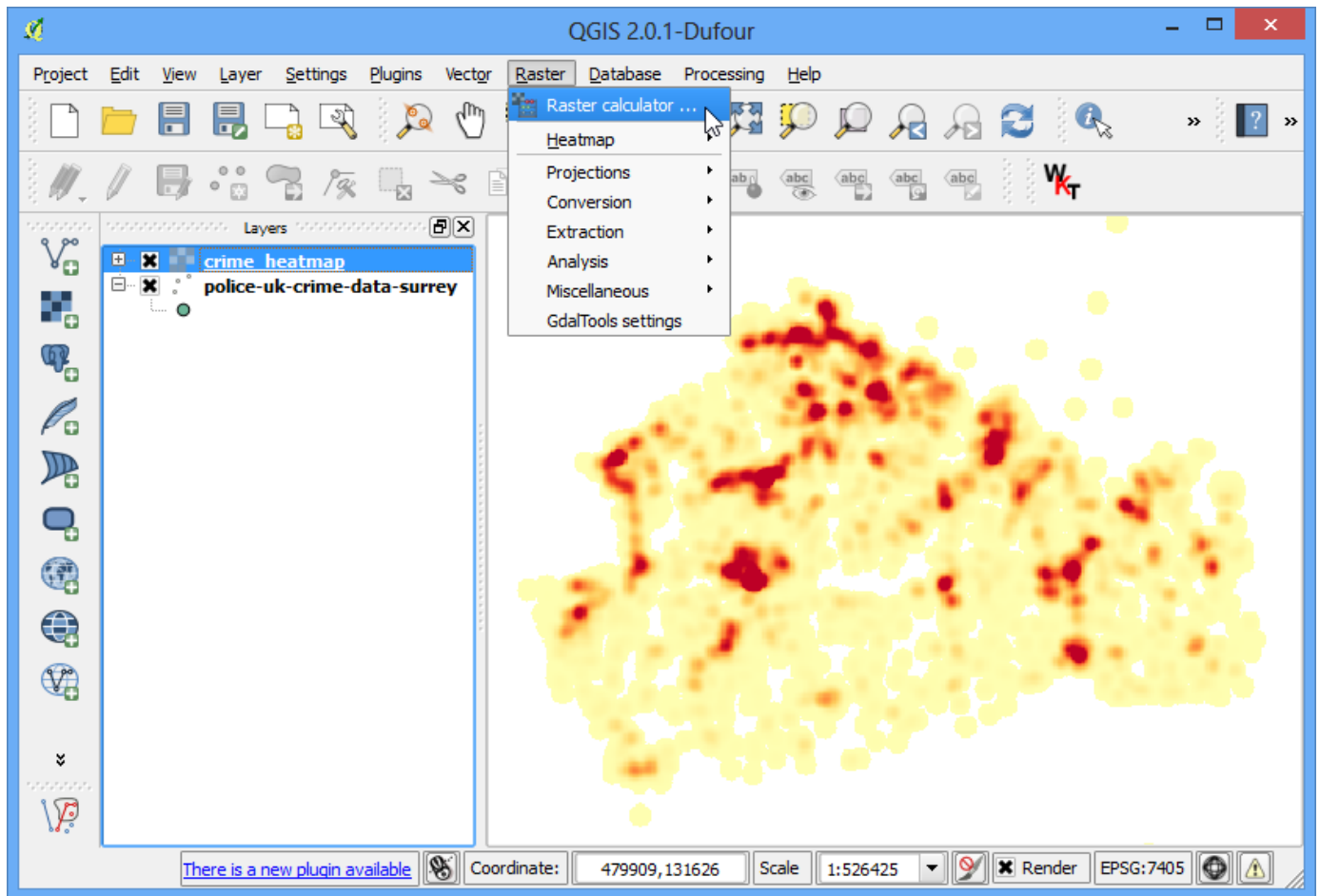


11. `Style`, `Singleband pseudocolor` `Render`. `Load min/`, `Actual` (`Accuracy`) `Load`. `heatmap` `Generate` `YIOrrd` (`Yellow-orange`) `Classify`. `OK`.

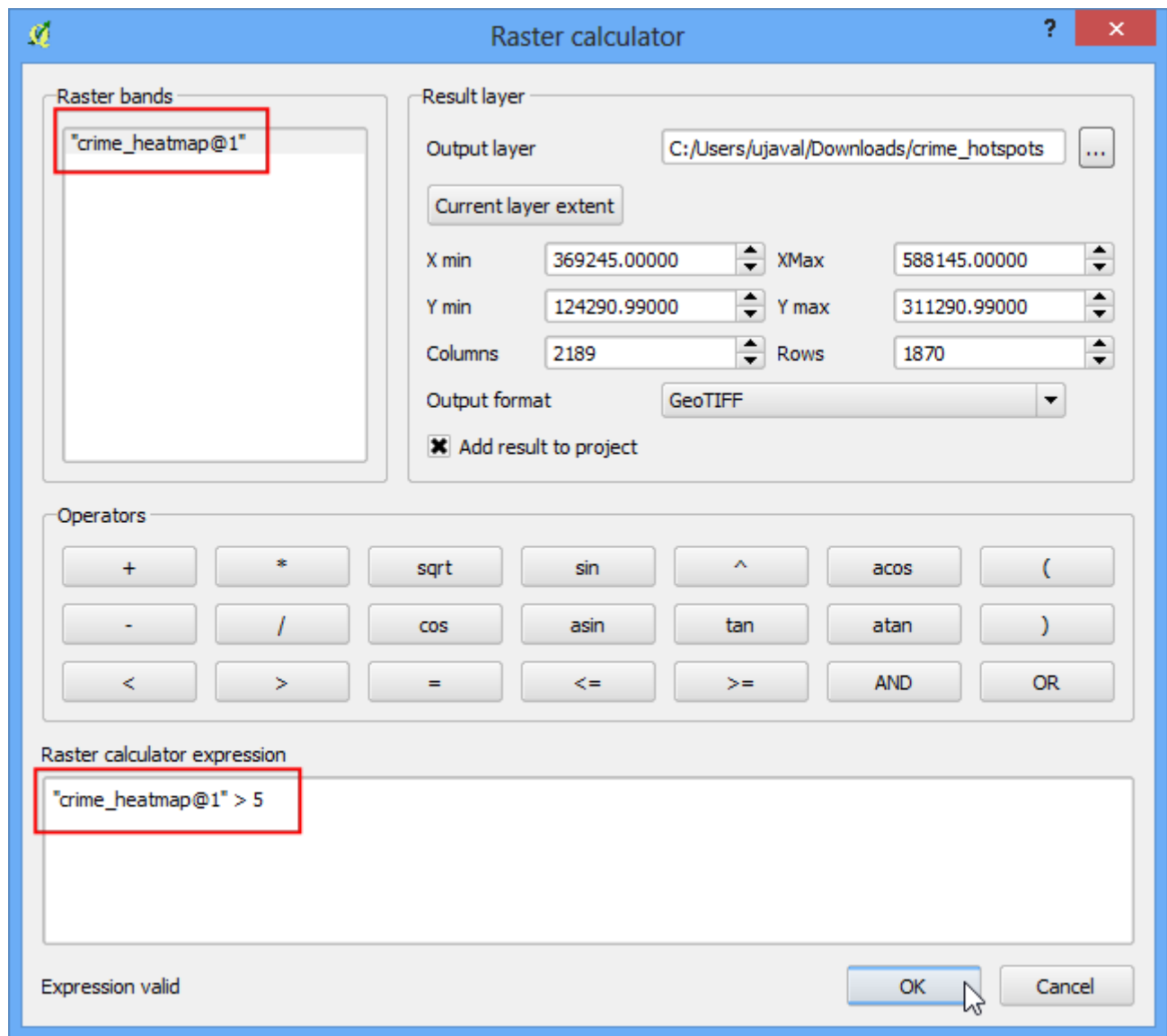




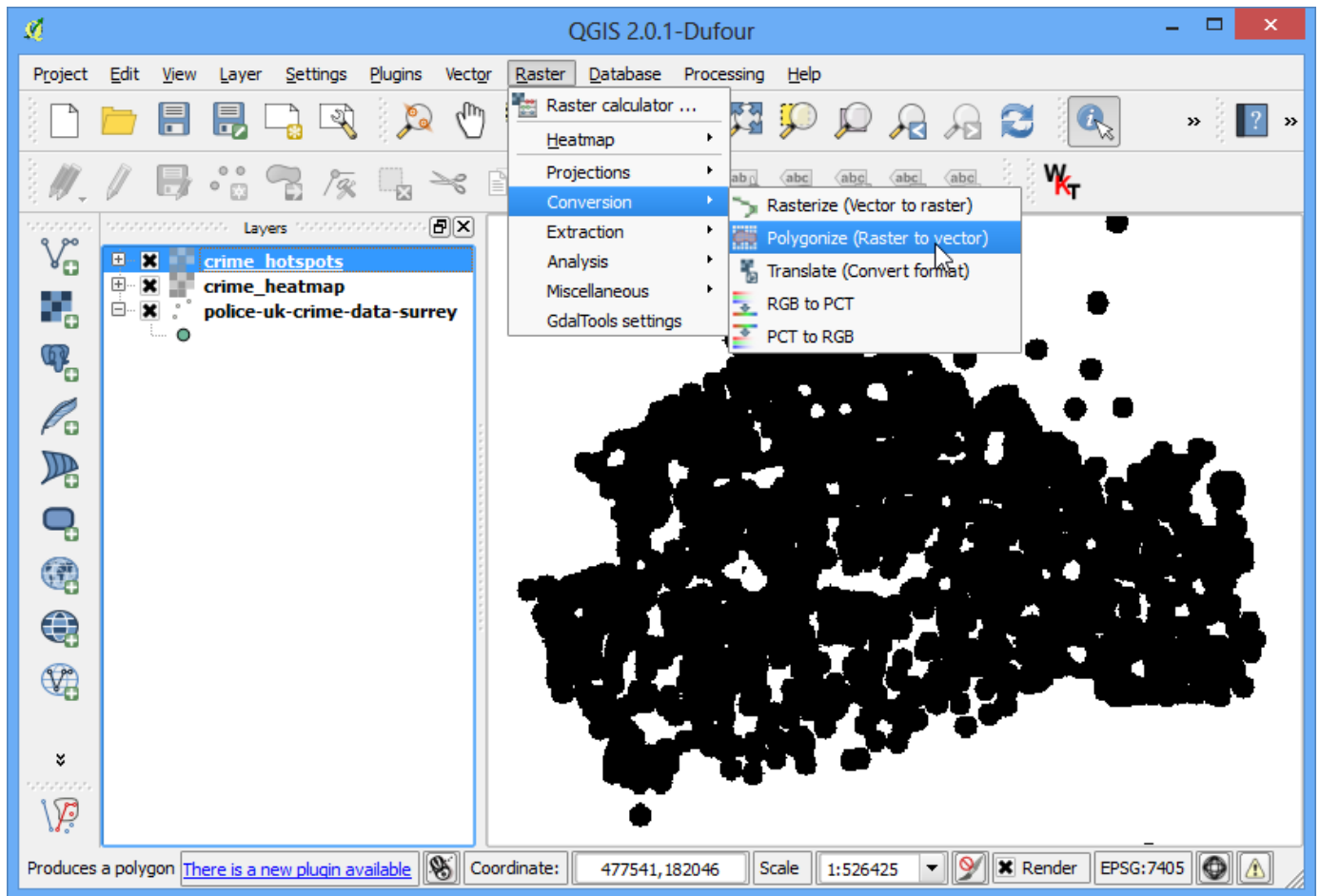
13. **Heatmap** is a visualization technique used to represent the intensity of a phenomenon across a geographic area. It is commonly used in crime analysis to identify hotspots or areas with high concentrations of incidents. The heatmap is generated by aggregating point data (e.g., crime locations) into a grid of cells, where the color of each cell represents the density or frequency of events. The color scale typically ranges from light yellow (low density) to dark red (high density). The heatmap is a **Raster** data type, which means it is composed of a grid of cells, each containing a numerical value representing the intensity of the phenomenon. The heatmap is a **Raster** data type, which means it is composed of a grid of cells, each containing a numerical value representing the intensity of the phenomenon. The heatmap is a **Raster** data type, which means it is composed of a grid of cells, each containing a numerical value representing the intensity of the phenomenon.



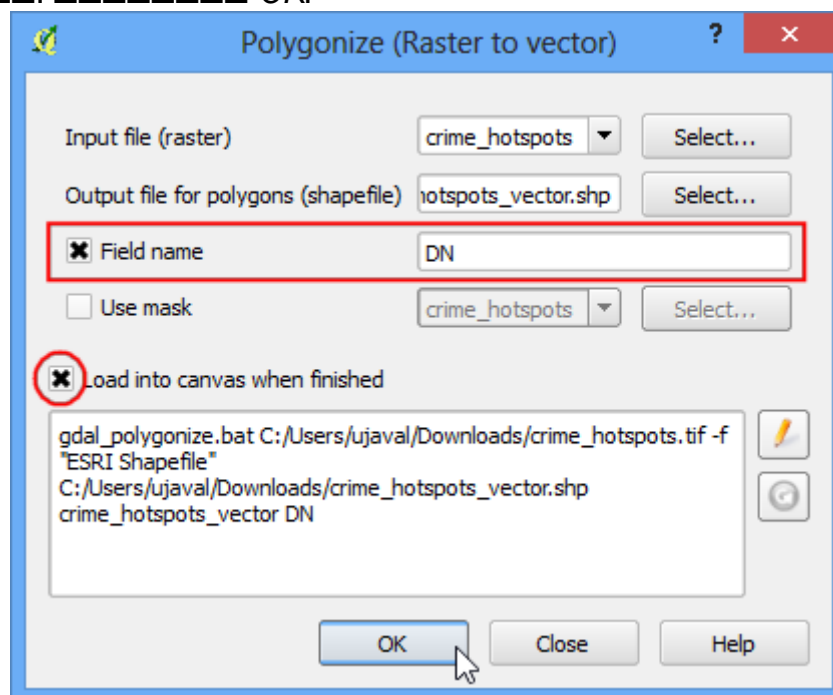
- [illegible]



15. ■■■■■■ ■■■■ ■■■■■■ ■■■■■■■■■■ QGIS. ■■■■ ■■■■ ■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■■■■■■■ ■■■■ 0, ■■■■ 1. ■■■■ ■■■■■■■■■■ ■■■■ ■■■■■■■■■■ ■■■■, ■■■■ ■■■■■■■■■■ ■■■■■■■■■■ ■■■■ ■■■■■■■■■■, ■■■■ 5 ■■■■■■■■■■ ■■■■■■■■■■ 1 ■■■■ ■■■■ remianing ■■■■■■■■■■ ■■■■■■■■■■ 0. ■■■■■■■■■■ ■■■■ *Raster* ■■■■■■■■■■ ■■■■ *Polygonize* (■■■■■ ■■■■■■■■■■).

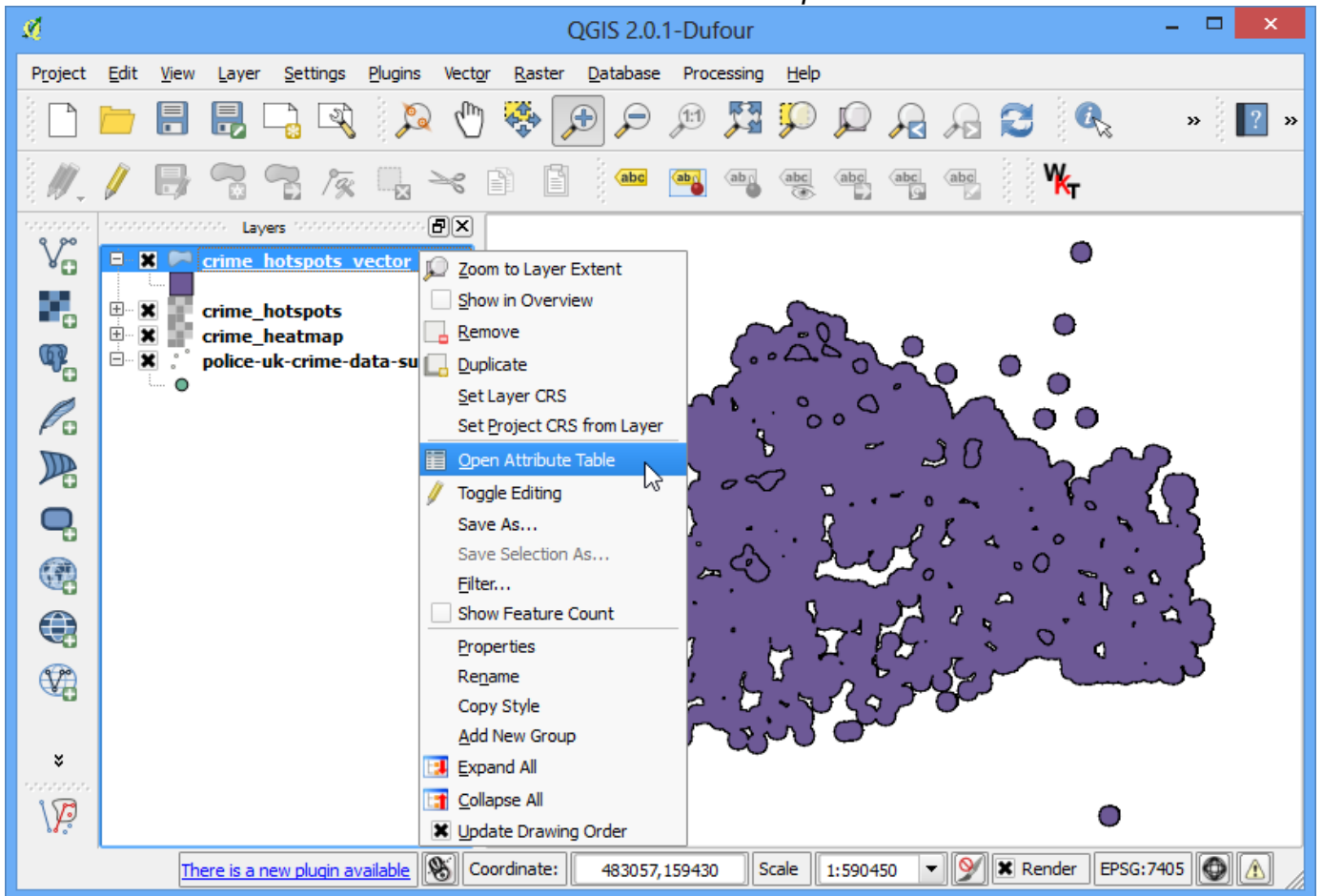


16. Click on the **Field** checkbox and enter **DN** in the **Load** field, then click **OK**.



17. Click on the **Filter** checkbox and enter **0** in the **filter** field, then click **OK**.

....., ..... Open .....

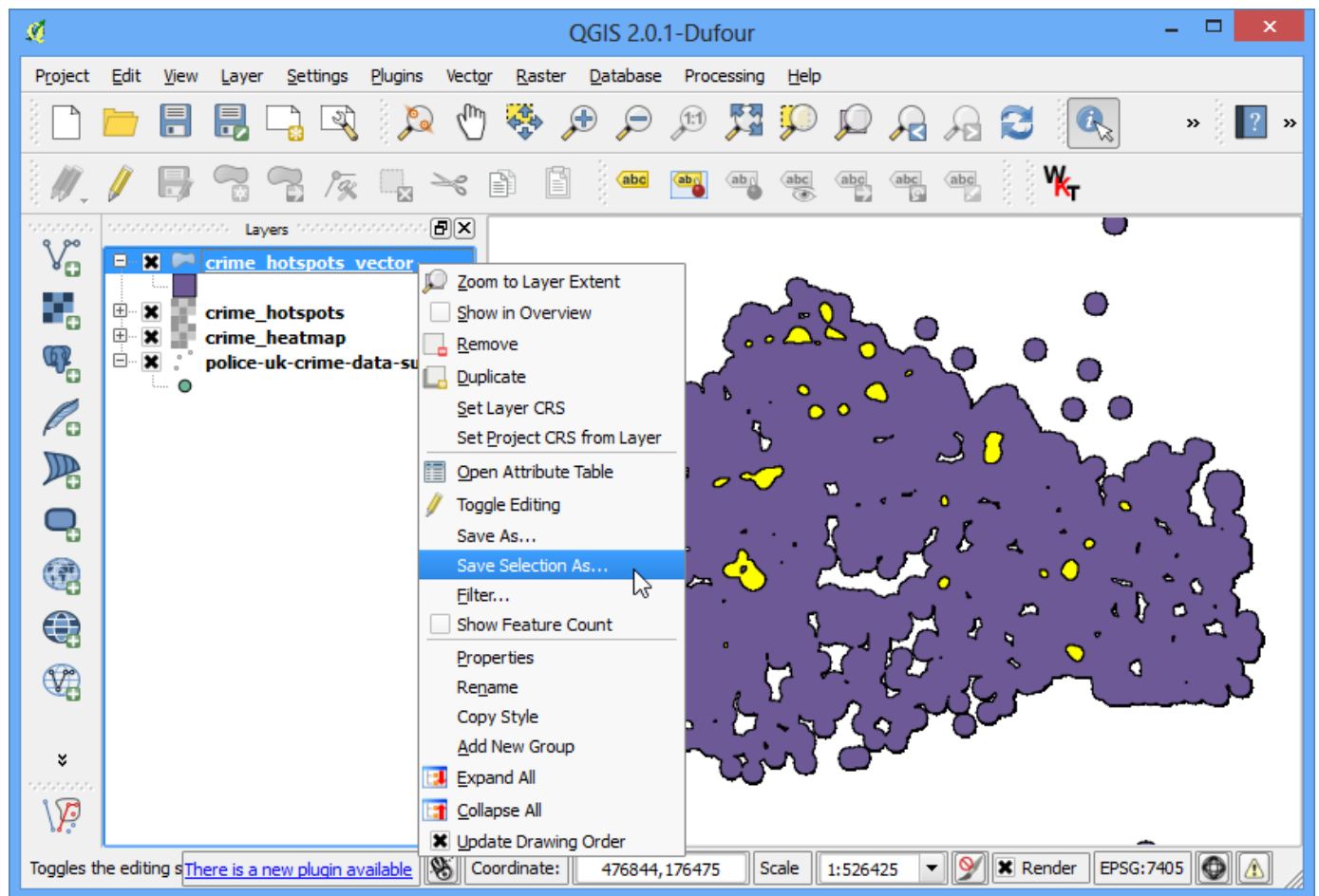


18. .... Select .....









21. ■■■■■■■■■■ output ■■■■ ■■■■ *crime\_clusters*. ■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■  
 Add ■■■■■■■■■■ ■■■■, ■■■■■■ ■■■■■■■■■■ ■■ ■■■■■■ ■■■■■■■■■■ OK.



