Practice on 1. Introduction

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NOAA / Climate Prediction Center - International Desks

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Exercise 1: Familiarization With QGIS

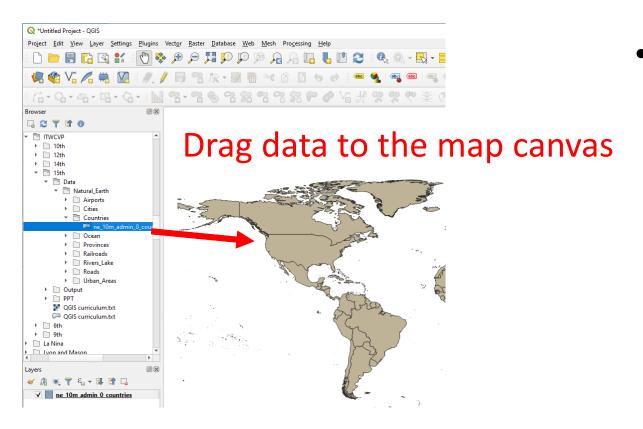
• Try to find these tools and identify their purposes

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- 5.

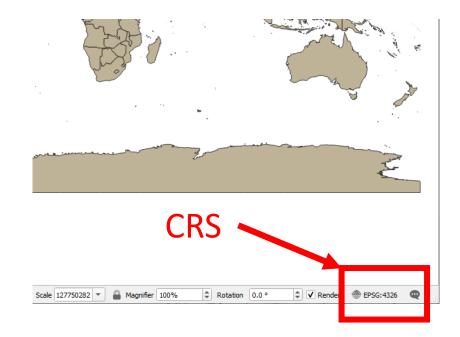
• Locate and hold your mouse over each toolbar for a while

Exercise 2: Loading Vector Data

Navigate to the workshop data and load countries shapefile

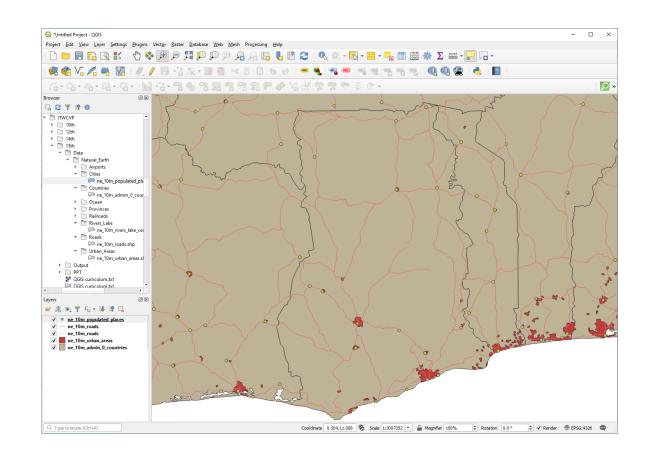


Identify the CRS for project



Exercise 2: Loading Vector Data (Cont'd.)

- Load urban areas, roads, rivers lake, and cities shapefiles
- Use the toolbar and draw a rectangle to zoom in over any country
- Identify the geometry for each vector data

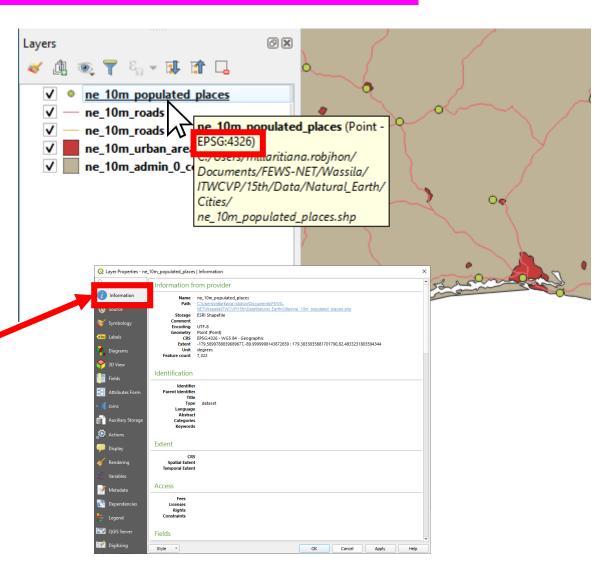


Exercise 3: Properties and Classification

 Identify the CRS for each data (layer) by hovering the mouse over

 Explore populated places properties by double clicking the data and selecting information in the left tab

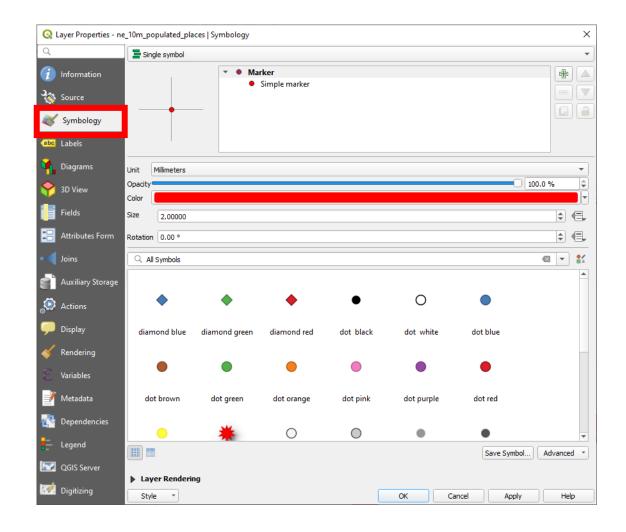
Repeat the above for each data



Exercise 3: Properties and Classification

 Change the color of populated places to red by opening its properties and selecting Symbology in the left tab

 Change also the properties for the remaining data to your likings

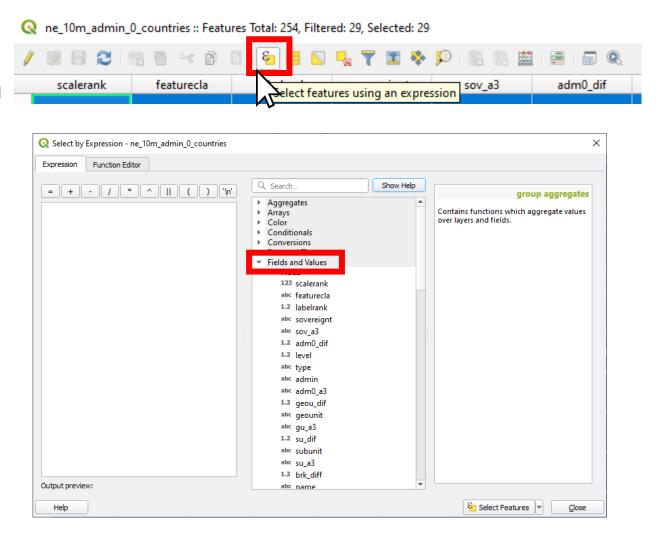


Exercise 4: Querying Attribute Table

Objective: Find countries in Africa with a population >= 10M

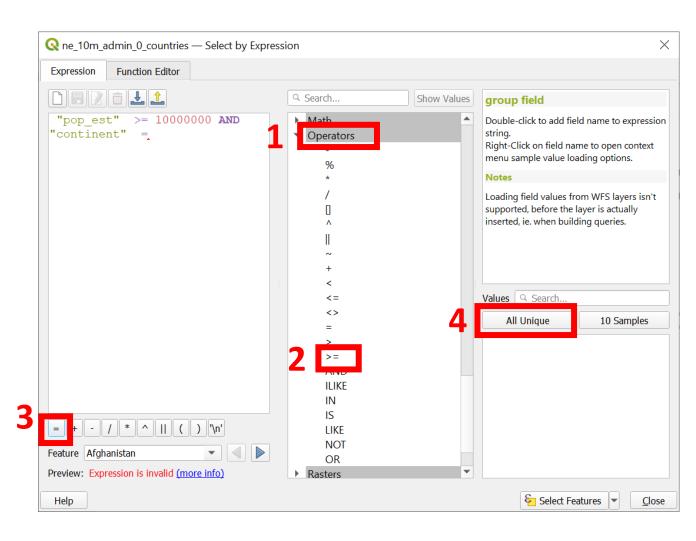
• Right click on admin0 and open its Attribute Table

• Expand Fields and Values, find and double click pop est



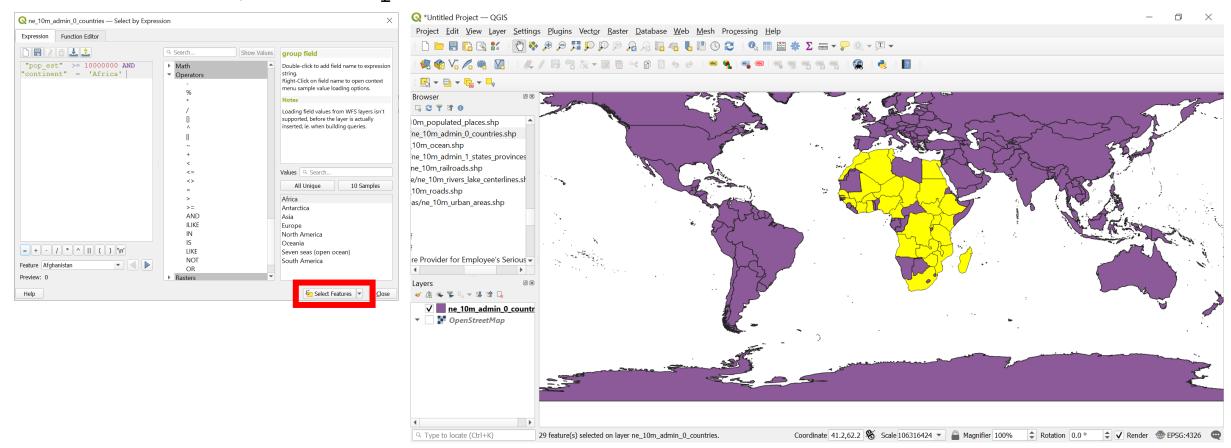
Exercise 4: Querying Attribute Table (Cont.)

- Scroll down to Operators, double click >=, and type 10000000 in the Expression field
- In Operators, double click AND, scroll up to Fields and Values, find, and double click continent
- Click on = , click All Unique, and double click Africa



Exercise 4: Querying Attribute Table (Cont.)

• Click Select Features. Save as a new data by right clicking on admin0, then Export > Save Selected Featured As



Projection

- Original map CRS :EPSG 4326
- Then convert to EPSG 3832 CRS

- EPSG 3832 CRS (PDC Mercator) which is the appropriate projection
- EPSG 3832 CRS (PDC Mercator)
- Example

