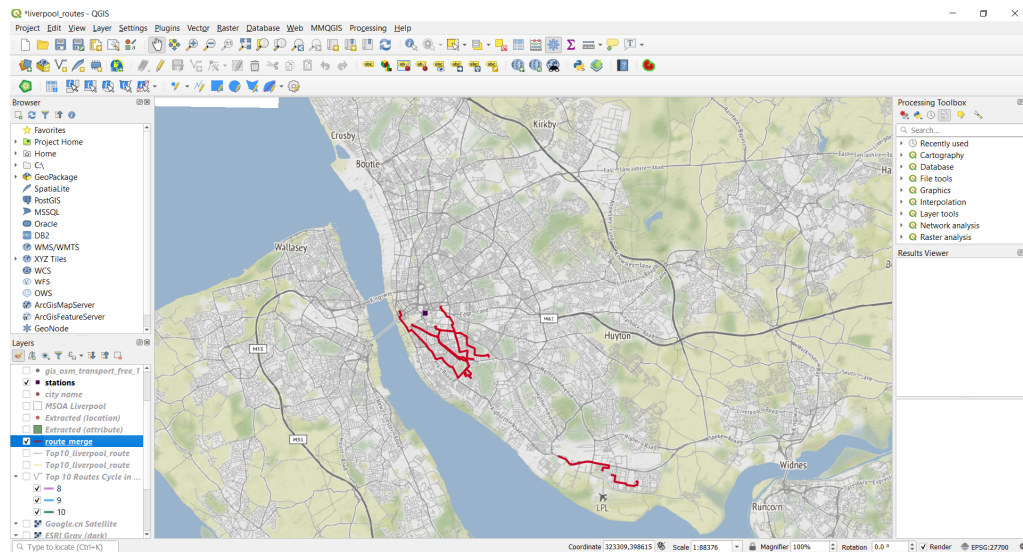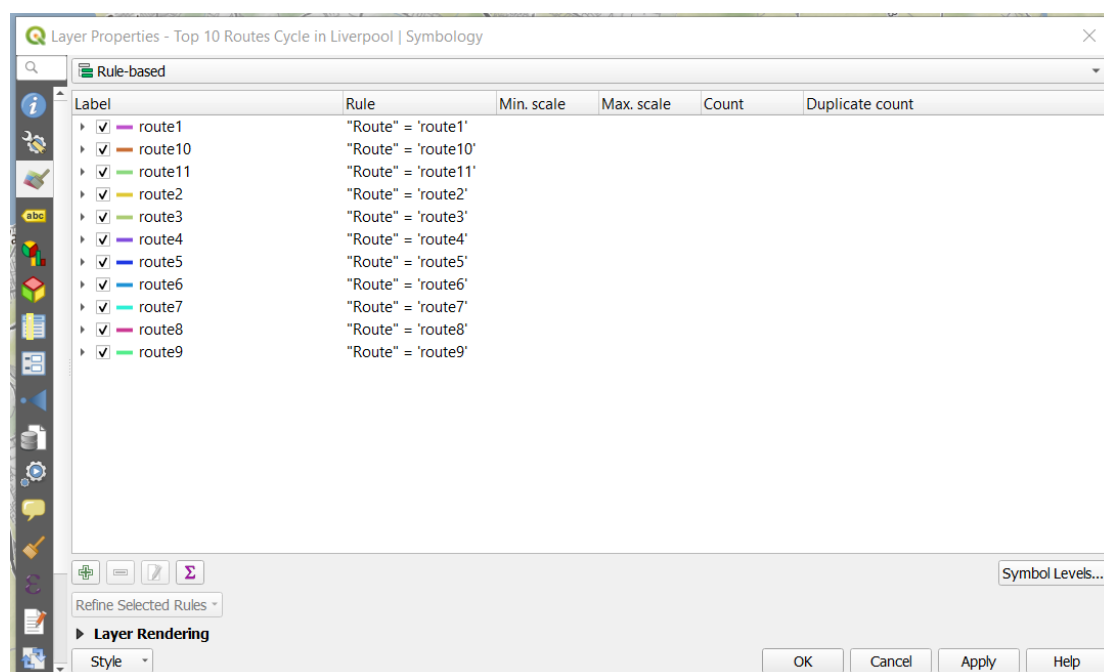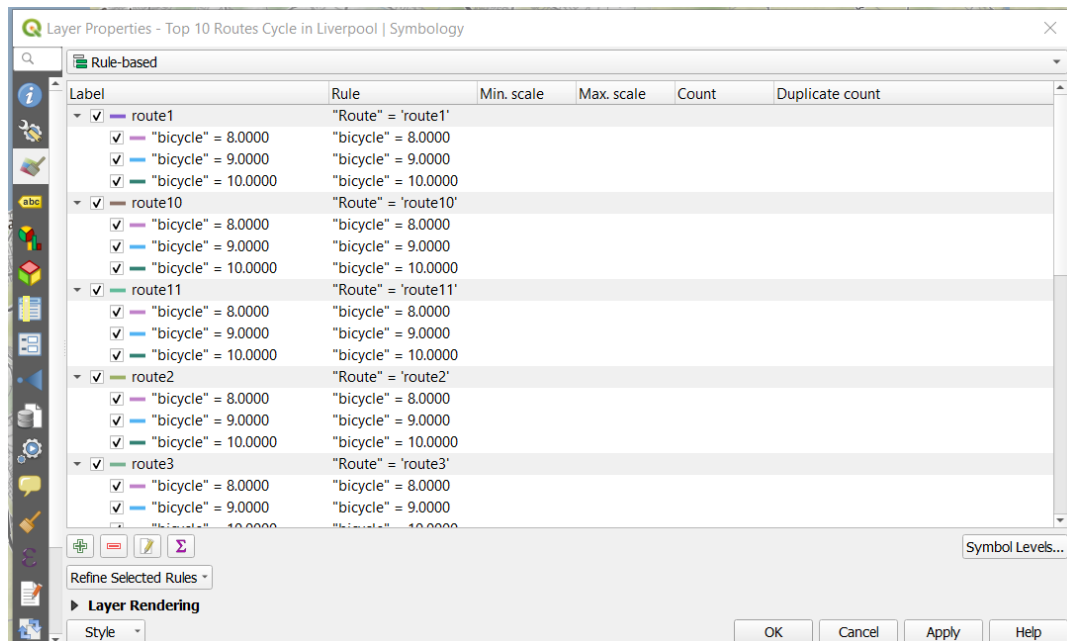## Reproducing Maps in QGIS3.4.4

1. Access the following GitHub Directory: https://github.com/holly-m-jones/PCT_Liverpool.git.

2. Import the 'route_merge' and 'stations' shapefiles saved in the Data file, save locally and drag and drop into QGIS.

3. Import a map of your choosing, I have used the 'Stamen Terrain Map' via the QuickMapService plugin. Your map should now look like the below:
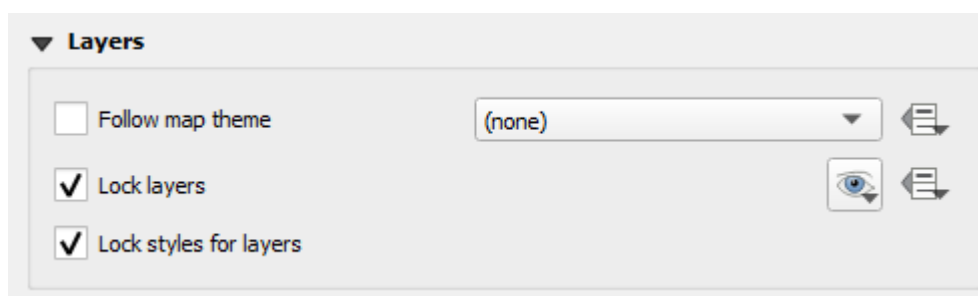

4. Right click on the 'route_merge' layer and click on properties. Navigate to symbology and change to Catergorized. In the 'column' drop down select 'Route', and then classify, 12 categories should appear, one for each route and a blank. Remove the blank category by selecting it and clicking the '-' sign below. Next change the symbology type to 'rule based'. It should look like the below

5. Highlight all the routes, right click, click on refine current rule and then Add categories to rule. In the column drop down select 'bicycle' and colour, click classify, remove the blank variable and colour as you wish. Then click ok. Your Rule-based page should now look like this:

6. To isolate the routes, turn each off/on as necessary using the tick box located next to the route number.

7. Click on the [icon] icon to create a new print layout or press Ctrl+P.

8. Once the print layout is open click on 'Add Item' and 'Add Map' and drag and draw 11 windows for each of the routes.

9. Work through each of the 11 maps in the layout view, drawn in step 8. Click back on the main QGIS map and isolate each route as per step 5. Once a route is isolated update one of the 11 maps in the layout view and once correct click on map properties and tick 'Lock layers' and 'Lock styles for layers'. This will lock the map view for each window and enable the others to be edited, with the different routes individually shown. Repeat this step across each of the 11 layout view maps.

10. Add a twelfth map viewport in the layout view. Switch back to the main map and zoom out so the United Kingdom can be seen in full. Update the map viewport and lock the layers as per the step above, adding a label highlighting where Liverpool is located.

11. Click on 'Add Item' and add a legend, a scale bar and a north arrow. Arrange as necessary.

12. The final image should resemble the below.