----- Practical 1 -----

Creating and Managing Vector Data: Adding vector layers, setting properties,

formatting, calculating line lengths and statistics

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Layer > Create Layer > New Shapefile Layer



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For creating Lake Layer select

Type – Polygon

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CSR – EPSG:4326,WGS 84

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Name – name

Type – Text data

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And click on "Add to field list".

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It will ask you to name the layer, Enter "lake". Extension will be ".shp"

Click on "Save" itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in

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Lake layer will appear in Layer Panel.



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Select lake layer and click on 🖉 "Toggle Editing" and then click on 🗟 "Add Feature"





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Start creating your first lake by creating polygon in canvas. To do this, you have to "left click" in canvas and go on till you create your shape for itvoyageake and then press "right dick" yagers in itvoyagers in itvoyagers.





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Name – Dombivali Talav (you can give any name you want) itvoyagers in itvoyagers in itvoyagers in itvoyagers in itvoyagers. Area – 10000 (although you can enter your values, but QGIS will not consider this value while calculating area because it will calculate the value automatically based on coordinates)

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Layer > Create Layer > New Shapefile Layer

We are going to create

Footpath layer (type - line)

itvoyage^{Garden laver}(type = polygon)</sup>tvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in Shop layer (type - point)

Road layer (type – line)

itvoyagef you want you can give other fields (attributes) to each layers in itvoyagers in

Footpath layer

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Give name footpath.

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After entering all fields click on "OK", save file as shop.

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itvoyag Select footpath layer and click on 2 "Toggle Editing" and then click on yagers in S "Add Feature".

Start creating footpath by creating line in canvas. To do this, you have to "left click" in canvas and go on till you create your path for footpath itvoyage and then press "right click" ito endagers. in itvoyagers.in itvoyagers.in







Add values to footpath's attributes.

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Select shop layer and click on 🖉 "Toggle Editing" and then click on 🛅 "Add Feature".

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Add road in map follow same steps which we followed to insert footpath.

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To get back to normal mode

You can stop editing for layer by clicking 🖉 "toggle editing" button. itvoyagers in itvoyagers in itvoyagers in itvoyagers in itvoyagers.in It will ask to save the fill press "Save".





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Add garden in map follow same steps which we followed to insert lake.

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itvoyageThis appears because garden layer in middle of all layersers in itvoyagers in

We have to move it down to bottom.

To do this we have to select it and drag it to bottom.





itvoyageMapiis done we have to make it look nice. Let's add labels to our itvoyagers. in shapes.

Click on 🛎 "Layer Labelling Options". Menu will appear on right hand side of screen.





Select layer on which you have to add label to.

itvoyageselect "Show labels for this laver" agers. in itvoyagers. in itvoyagers.in



In label with select the attribute which you want to set as label. itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in We will select "name".



itvoyage You can change properties with the settings siven belowers in itvoyagers in

Properties like Font, Style, Size, Transparency, etc...



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For calculating line length.

Link to download resource file

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In field calculator

Enter following values

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Output field type – Whole number (integer) (datatype for the field)

Output field length – 10

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We have set expression for this field

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Click on "\$length"

It will appear in expression window now add "/ 1000".

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Note: when we click "OK" QGIS will divide the length of roads and will store it in length field. QGIS will calculate the length with help of



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Calculating lengths of line is done.

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Now we have to generate Statistics.

Go to

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Select the railroads layer in "Input vector layer".

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Select "length" attribute in "Field to calculate statistics on"

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Click on 💷 button and select "Save to file..."

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Select the path and enter the file name "total-length" extension will be ".html" and click on "Save".

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Now click on "Run".

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