#### ITVoyagers (<u>itvoyagers.in</u>) itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in

#### Download the resources from below link.

### https://drive.google.com/open?id=1bkLuDvCoyB5DwWmsKHjlsBvRxD0hPGko

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Browse "ne\_10m\_populated\_places\_simple.shp" file and click on "Open". Browse "ne\_10m\_populated\_places\_simple.shp" file and click on "Open".



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#### Now add "signif.txt" file, for that go to.

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Browse "signif.txt" file and click on "Open".

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Select "Custom delimiters" check "Tab" and "Use spatial index" checkbox and set "X field" and "Y field" values to "LONGITUDE" and "LATITUDE" respectively.



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### **Analysis Tools > Distance Matrix**



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#### "I\_D" In Input unique ID field.

"ne\_10m\_populated\_places\_simple" in Target point layer itvoyagers in itvoyagers in itvoyagers in itvoyagers in itvoyagers in itvoyagers in "name" in Target unique ID field and finally click on "Browse" and give name and path to output file and click on "OK".





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itvoyagers in itvoyagers in itvoyagers in itvoyagers in itvoyagers in itvoyagers in Select "CSV (Comma separated values)" and we don't want to plot this data we just want its attribute table, so click on "No geometry (attribute only table)", and click on "OK".

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For upcoming operations we require "InputID" attribute.

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Now go to "signif" layer's properties. itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in

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Go to "Joins" panel, click on " button.

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In joins window select "a out" in Join Layer, "InputID" in Join Field and "I D" in it voyagers in it voyagers in it voyagers. In it voyagers in it voyagers in Target field. Click on "OK".

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## Now open "signif" layer's attribute, we can see new attributes are added.

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Now we want copy on "signif" layer, for that just save it and create new layer.

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# We saved it with name "signif\_save".

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Go to "General" tab and click on "Query Builder". itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in

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Now open "ne\_10m\_populated\_places\_simple" layer's properties. Go to itvo General tabiand click on "Query Builder" it voyagers.in itvoyagers.in itvoyagers.in

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Type "adm0name"= 'Maxico' as expression and click on "OK".

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#### If your canvas shows blank screen then just

## Right click on "ne\_10m\_populated\_places\_simple" layer and click on "Zoom to

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Now for last operation we need to add "mmqgis" plugin.

Plugins > Manage and Install Plugins... itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in



## Once we installed "mmqgis" plugin. Go to

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Now select

"ne\_10m\_populated\_places\_simple" in Hub Point Layer,

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"signif\_save" in Spoke Point Layer,

"a\_out\_Targ" in Spoke Hub ID Attribute,

Click on "Browse..." to set name and path for output file. Once its set click on ers. In "Save" and then "OK".







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