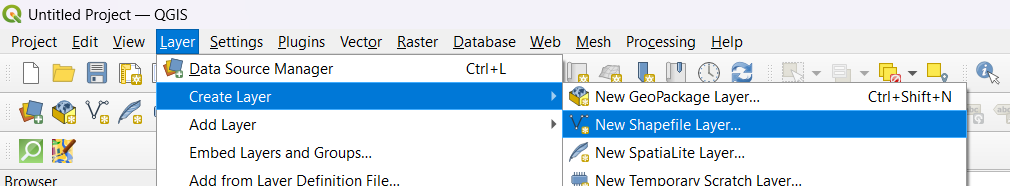
**PRACTICAL NO.2**

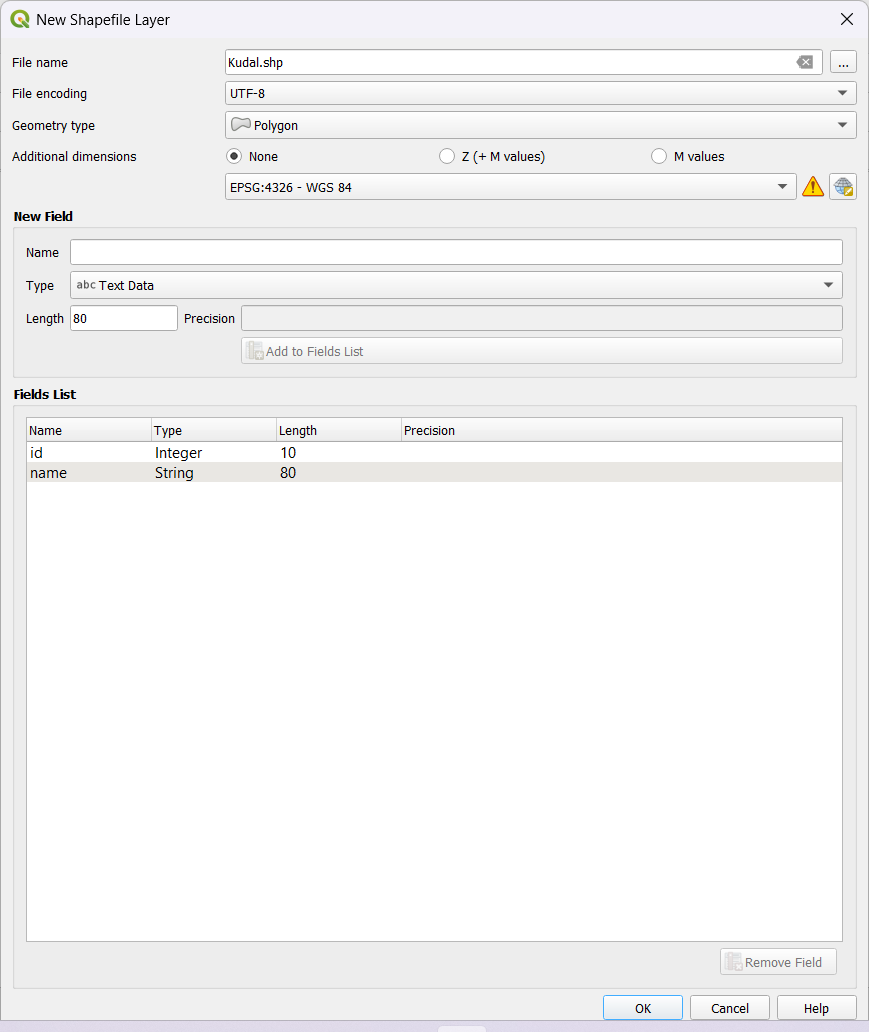
**Creating and Managing Vector Data: Adding vector layers, setting properties, formatting,**

**calculating line lengths and statistics**

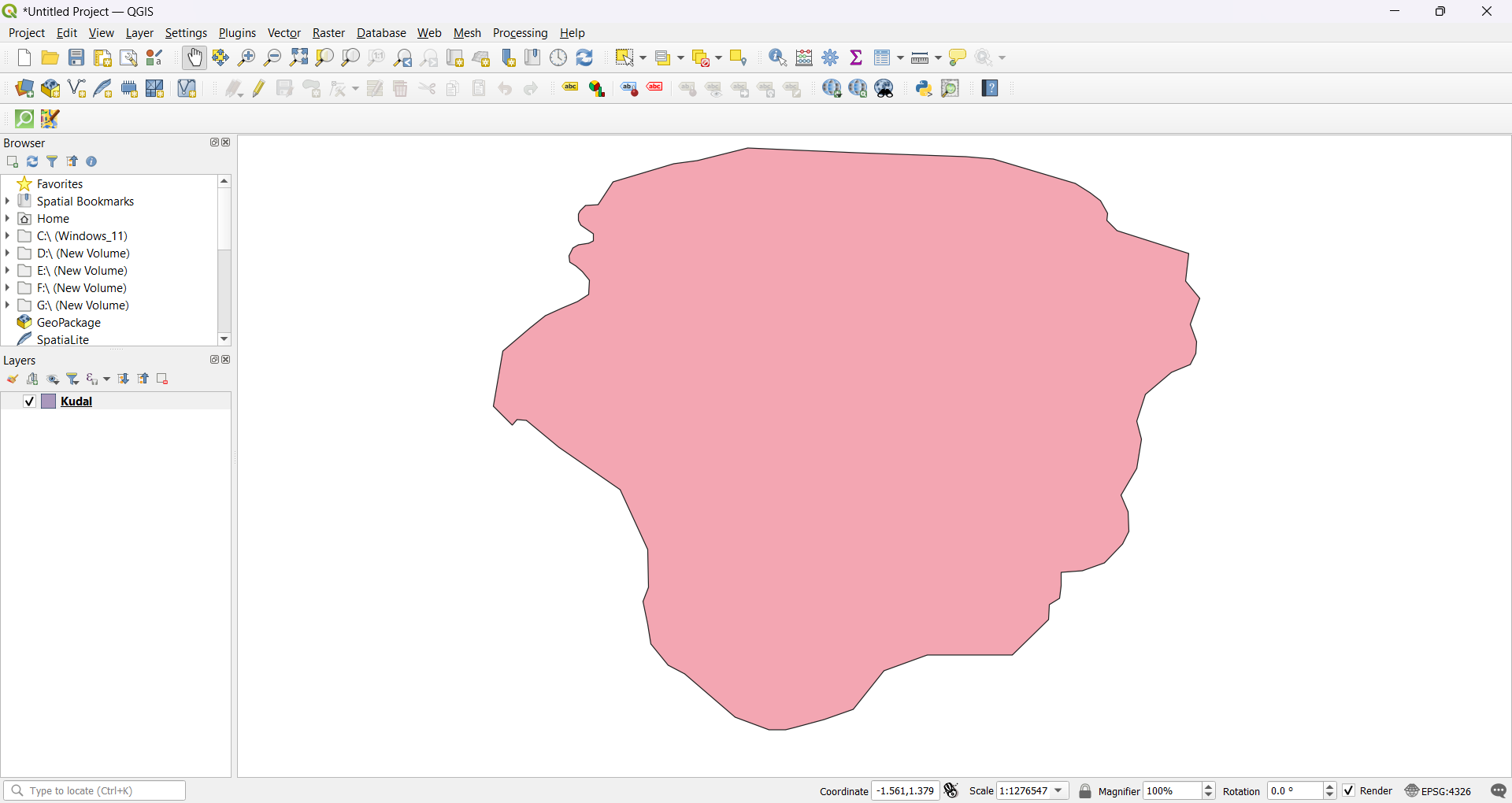
**Creating and Managing Vector Data**

Select Layer > New Shapefile Layer > 

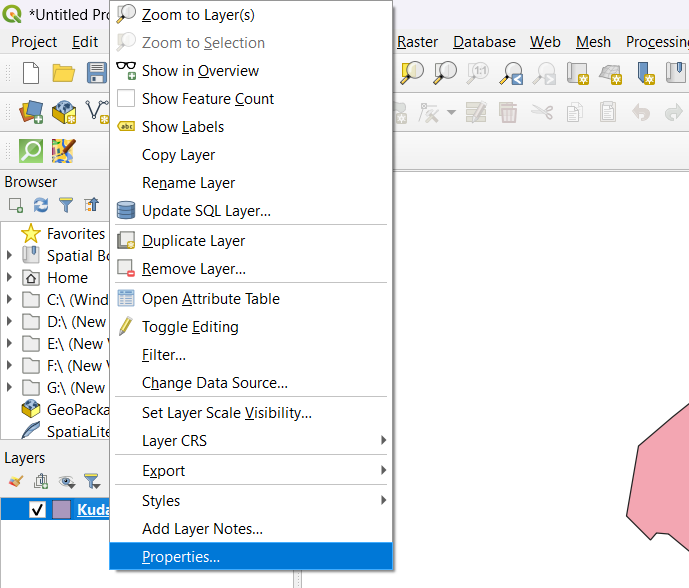
Set File name : kudal.shp > Geometry type : Polygon > Add Minimum 2 Field List : id,name > Ok >



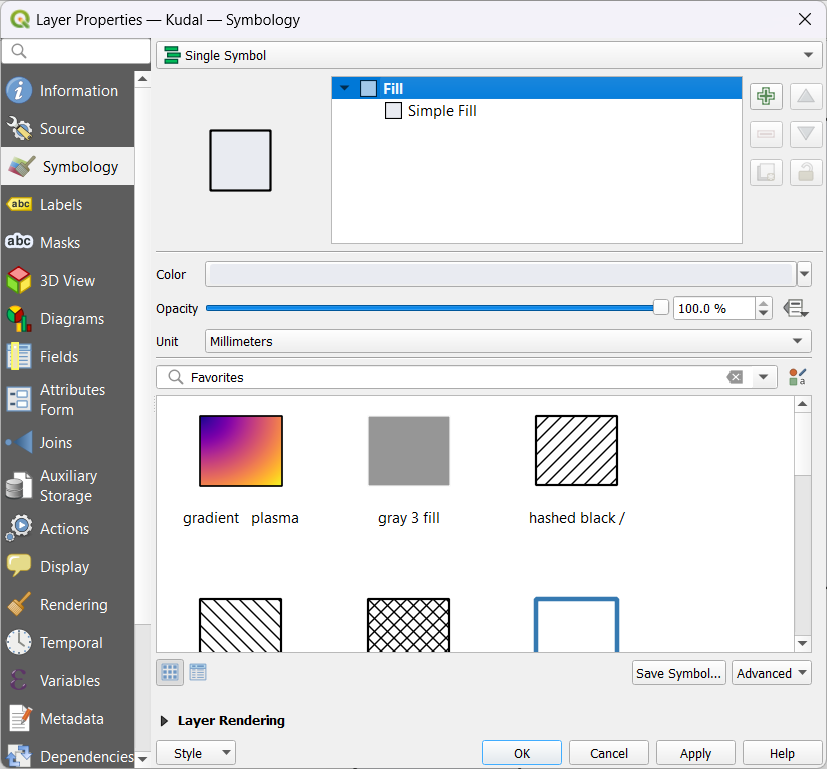
Output after adding Polygon Shapefile Layer >



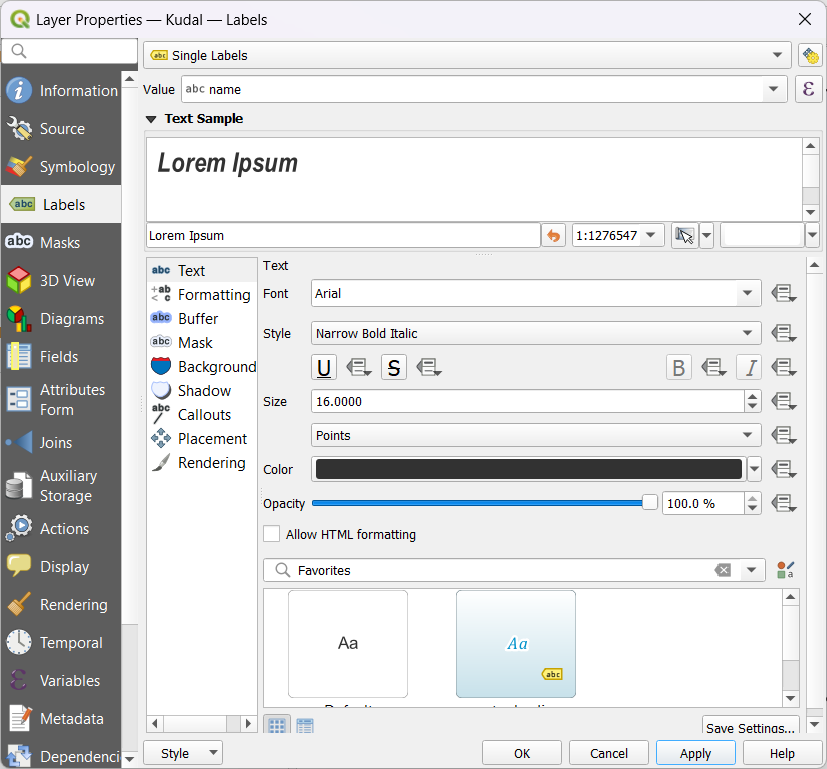
Right click on Added Layer > Properties >

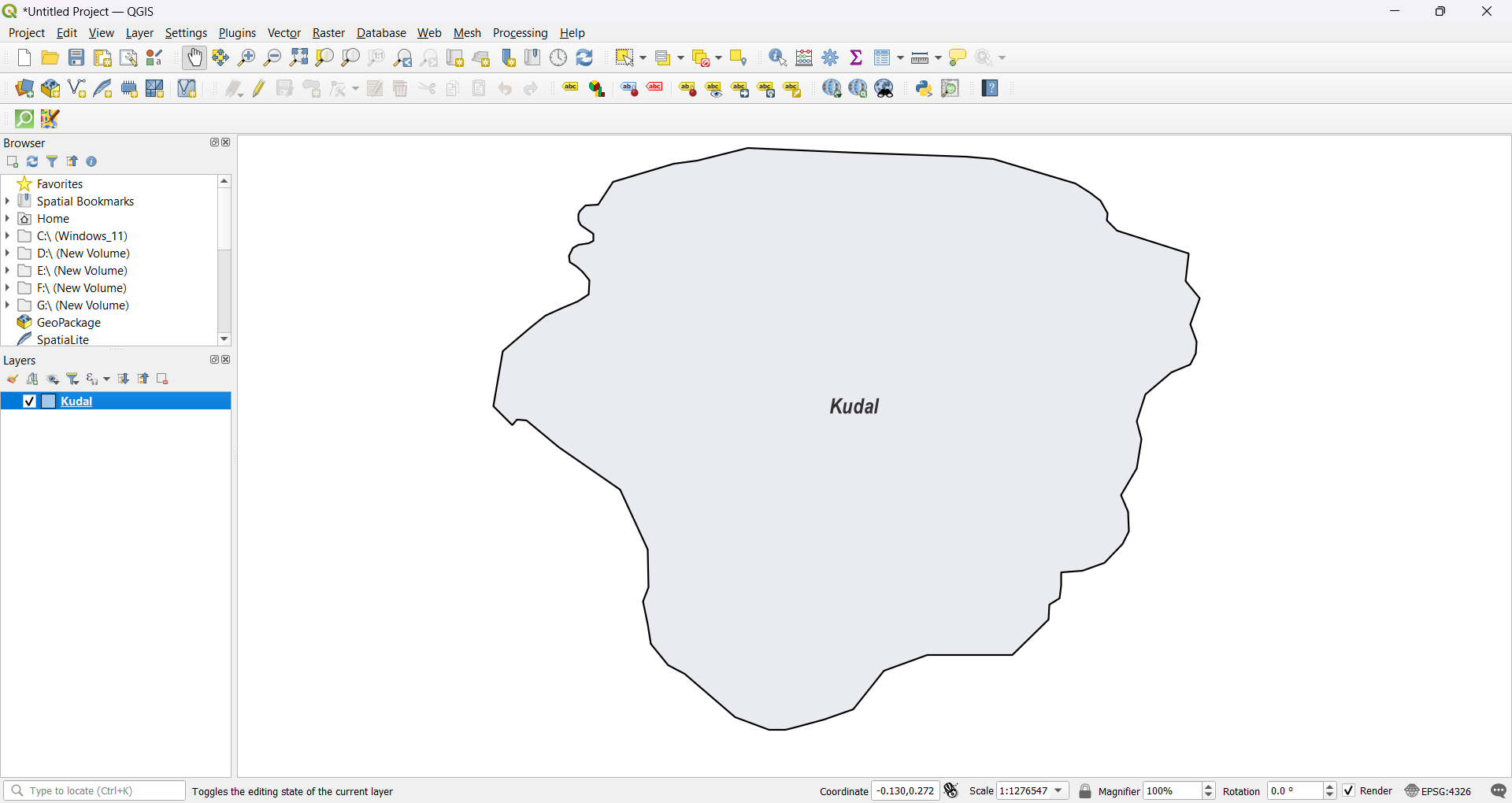


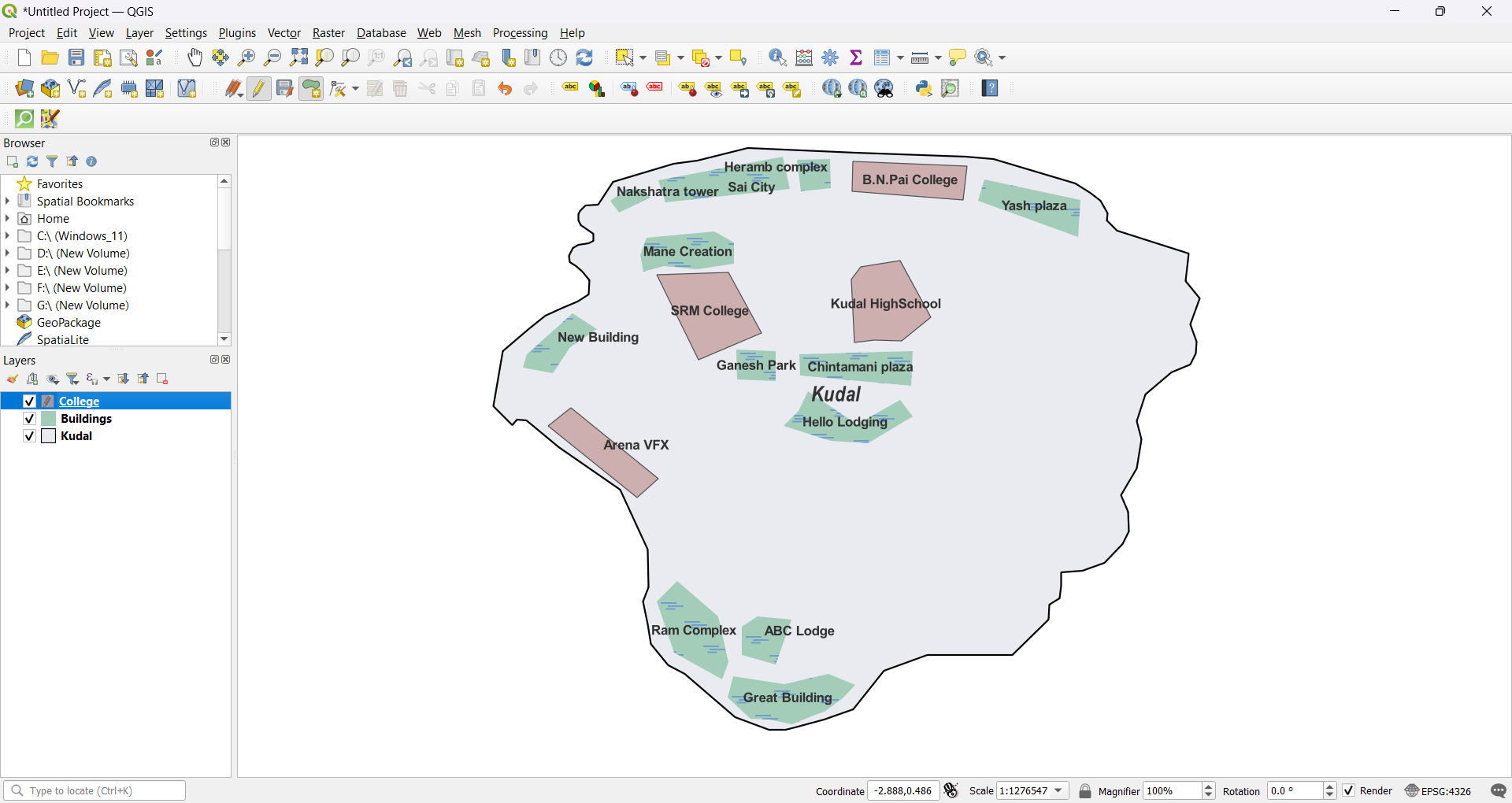
Layer Properties > Symbology : Set Color > Apply >



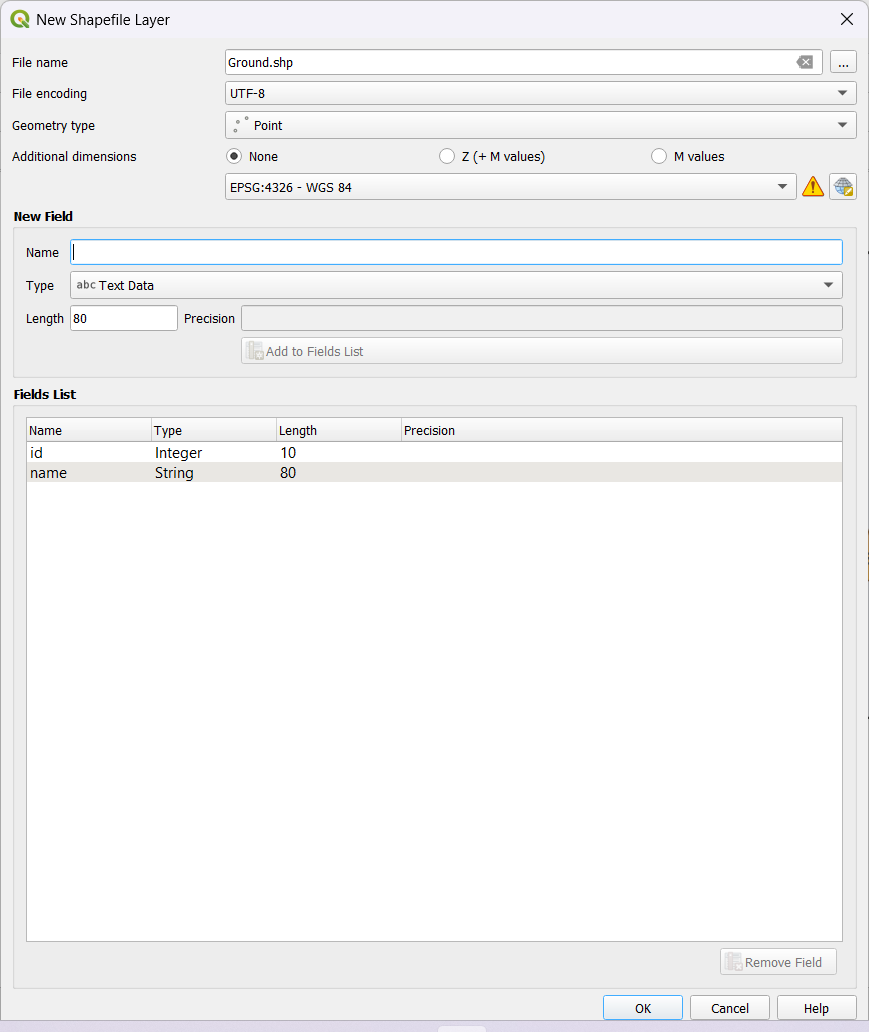
Layer Properties > Labels :Single Labels > Apply >



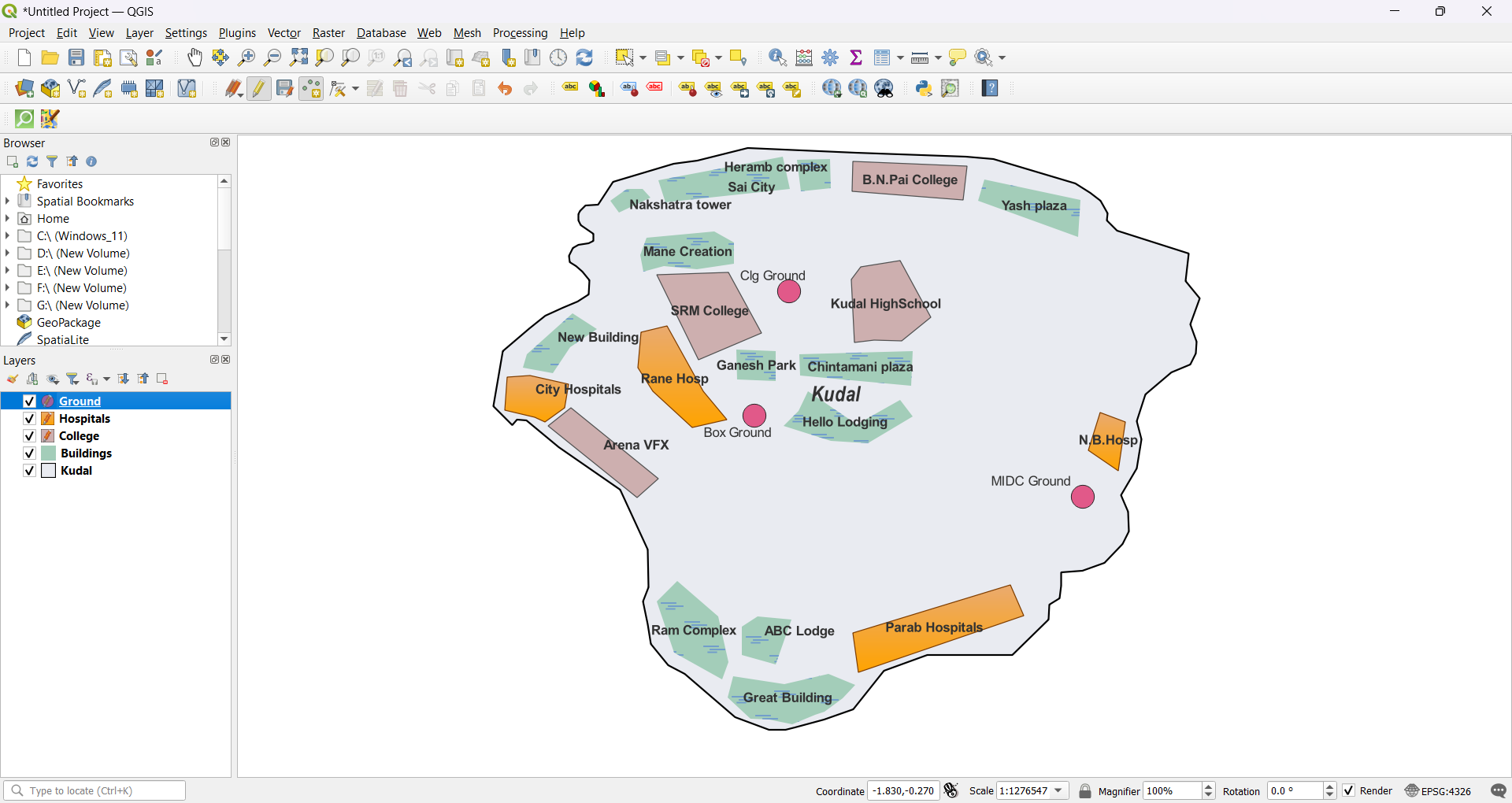
Output After Setting Properties > 

Output after adding Polygon Shapefile Layers : Buildings , Bank, Hospitals, Gardens > 

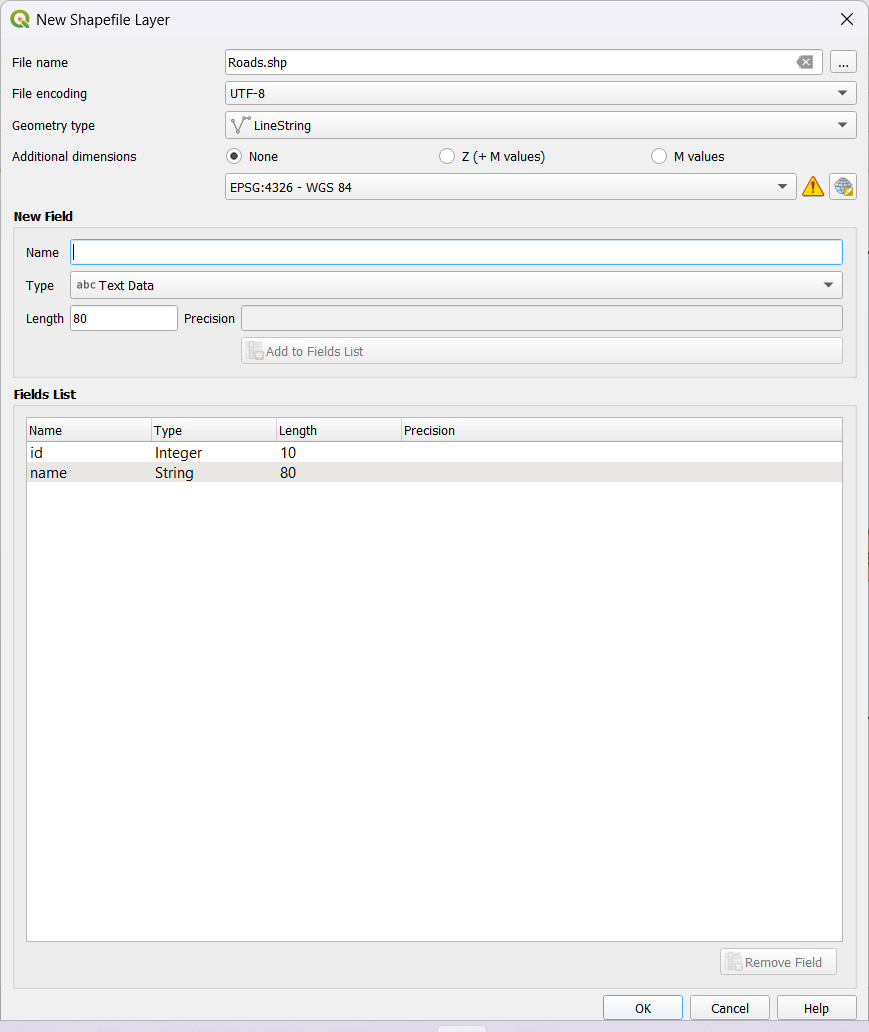
Set File name : Ground.shp > Geometry type : Point > Add Minimum 2 Field List : id,name > Ok >



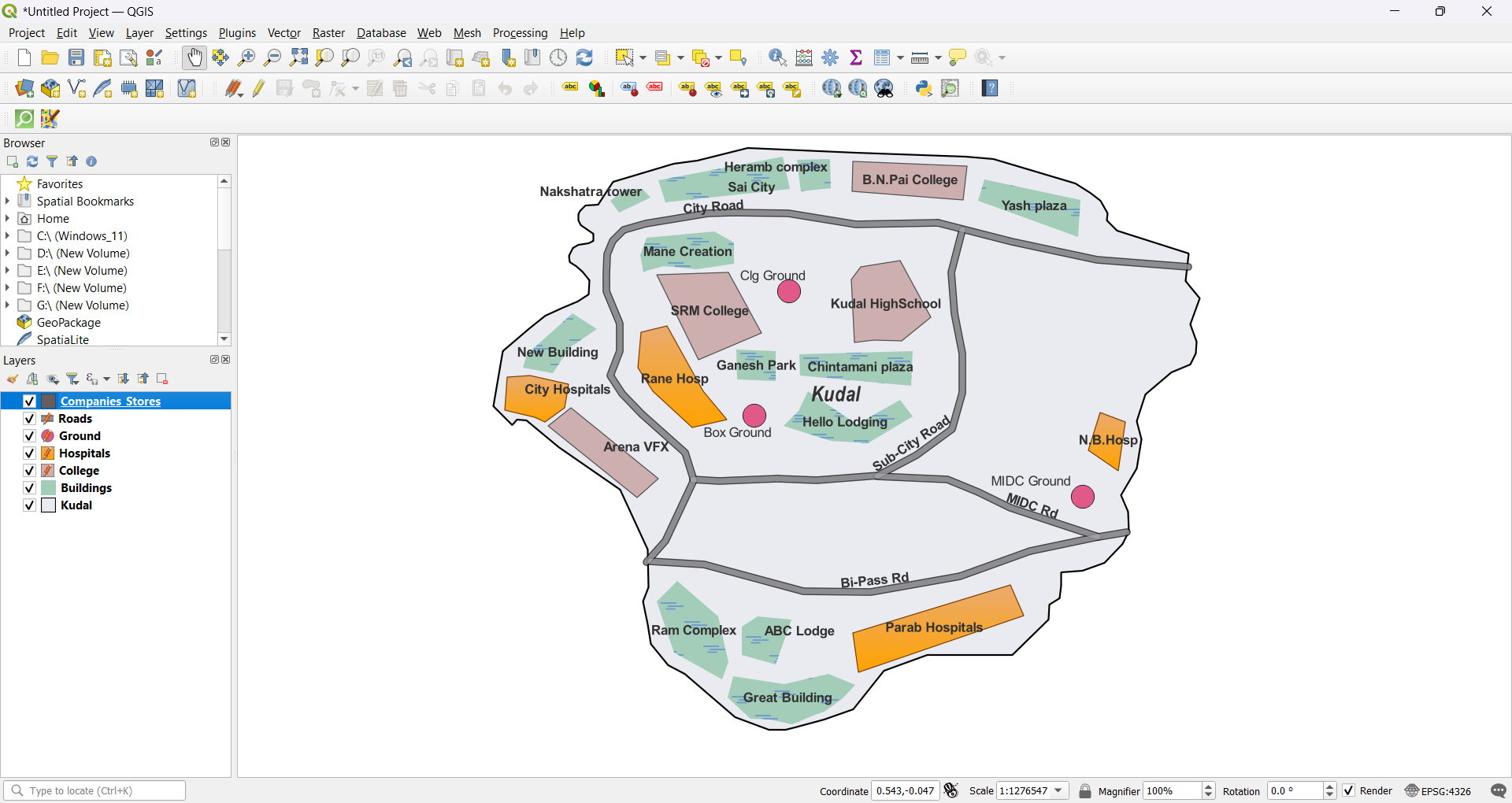
Output after adding Point Shapefile Layer >



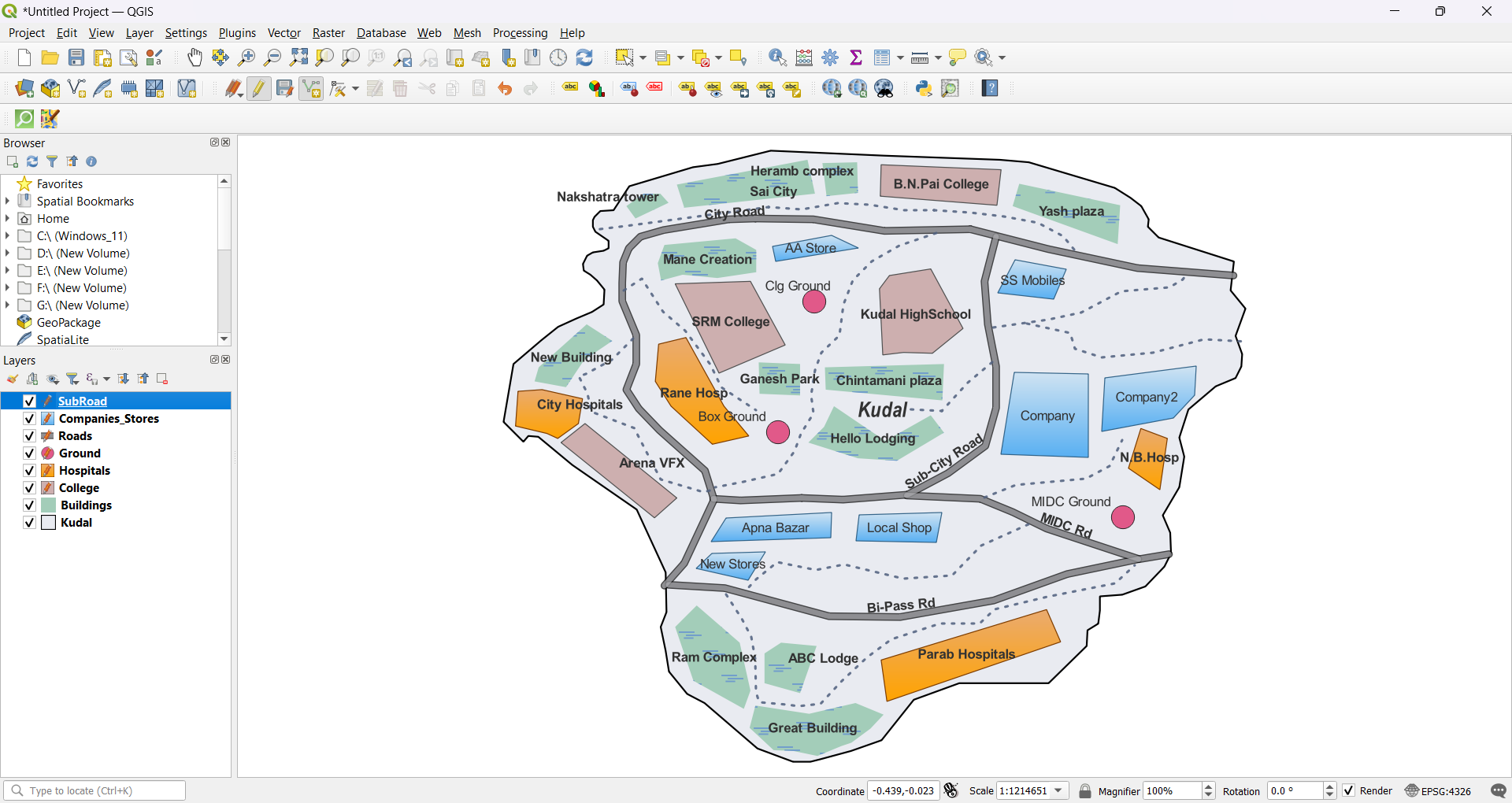
Set File name : Roads.shp > Geometry type : LineString > Add Minimum 2 Field List : id,name > Ok >



Output after adding LineString Shapefile Layer >

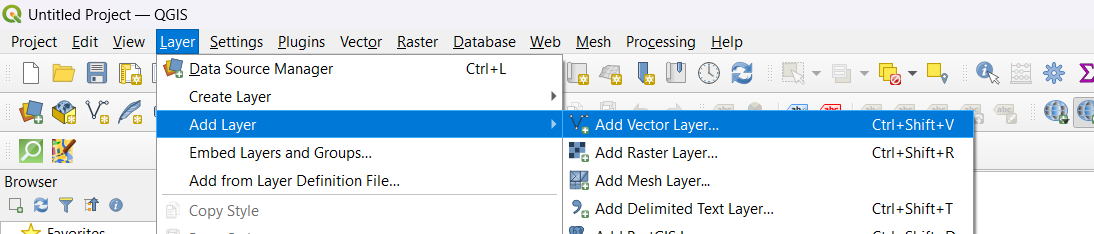


Final Output after adding all Polygon ,Point and LineString Shapefile Layers >

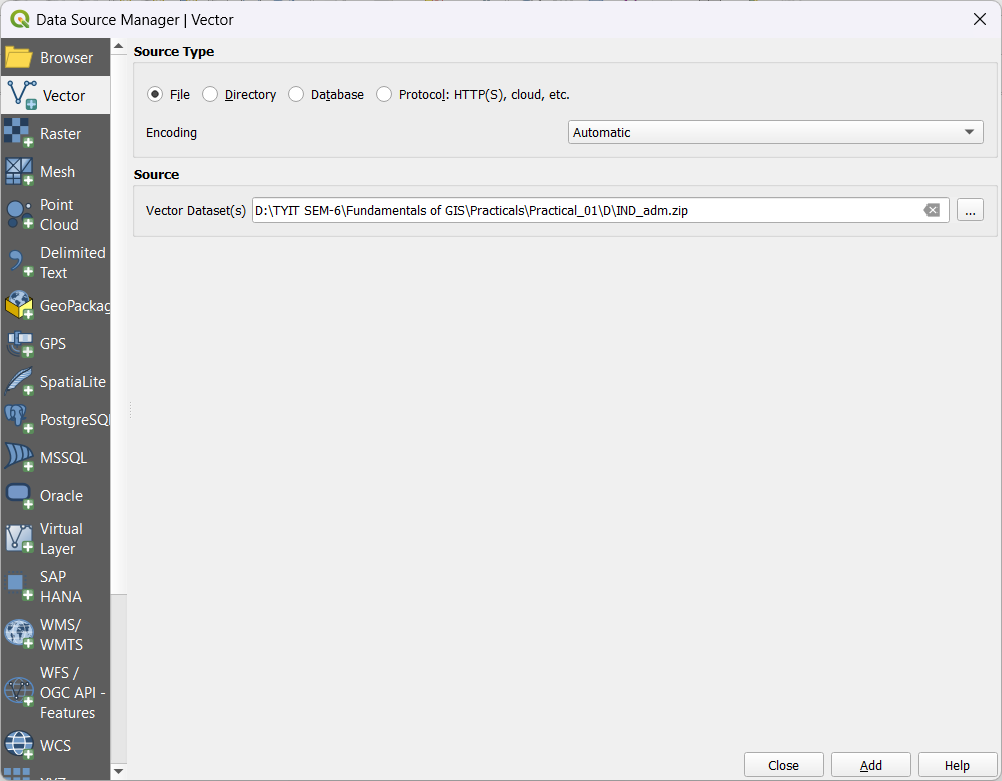


**Adding vector layers:**

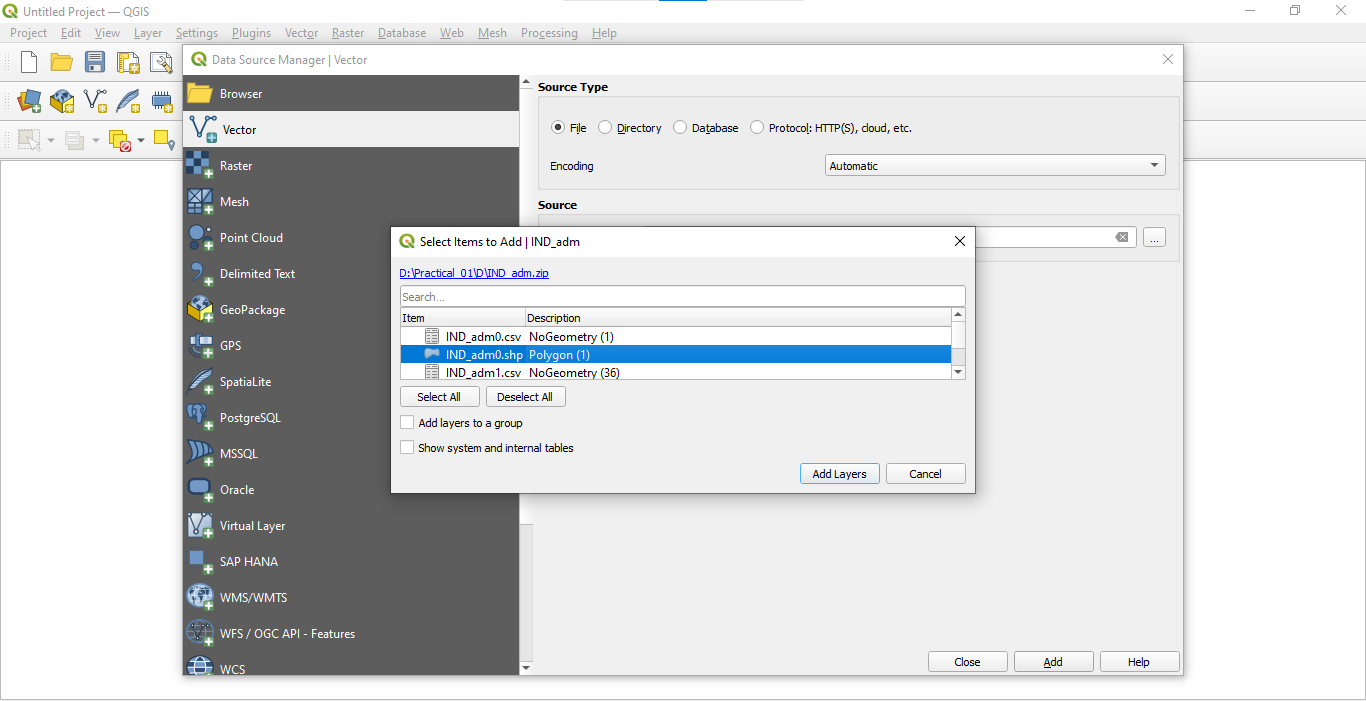
Add layer > Add Vector Layer



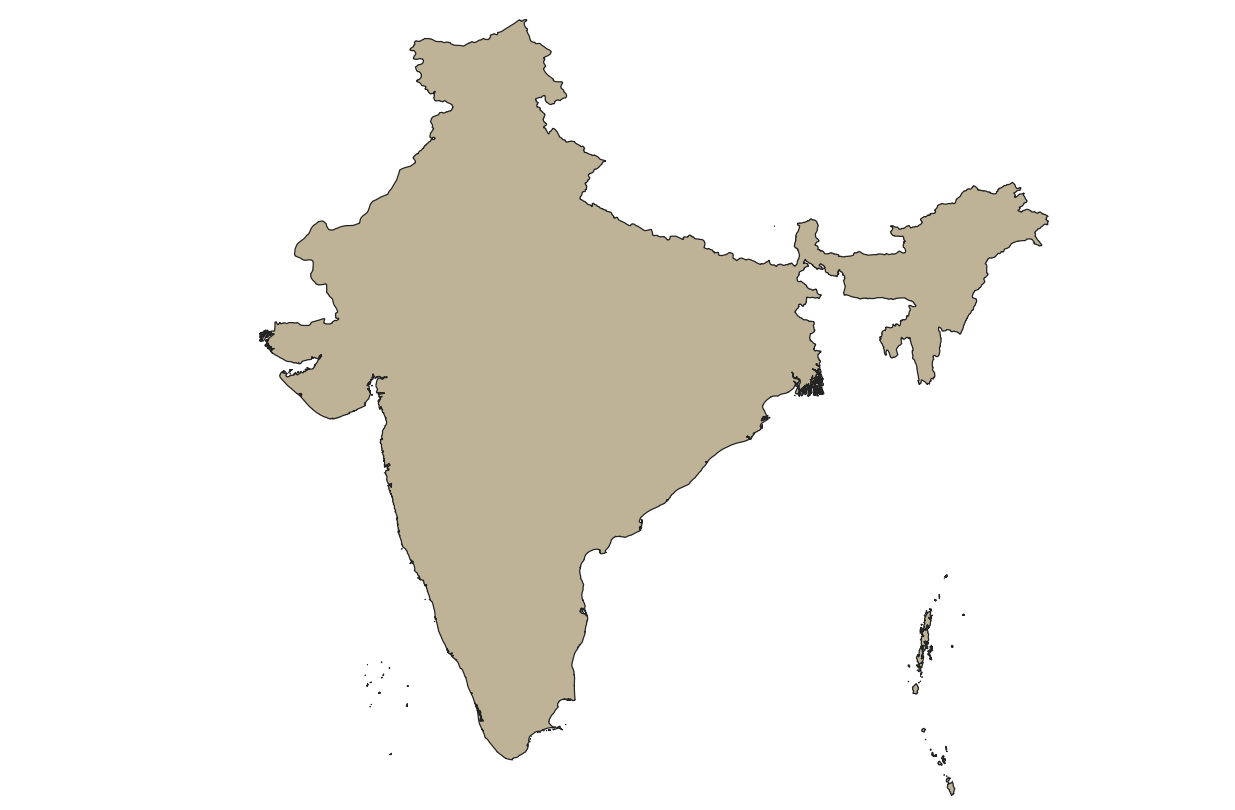
Select Vector > Browse Vector Database > IND\_adm.zip > Add >



Select IND\_adm0.shp > Click Add Layers

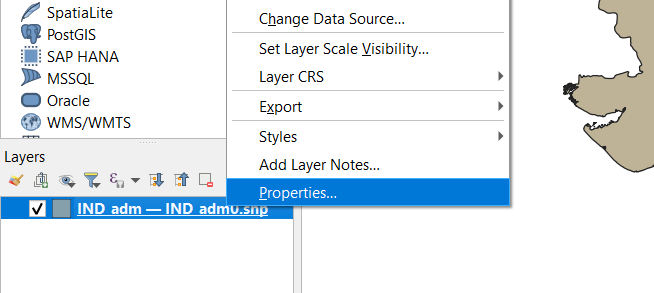


Output after adding IND\_adm0.shp >

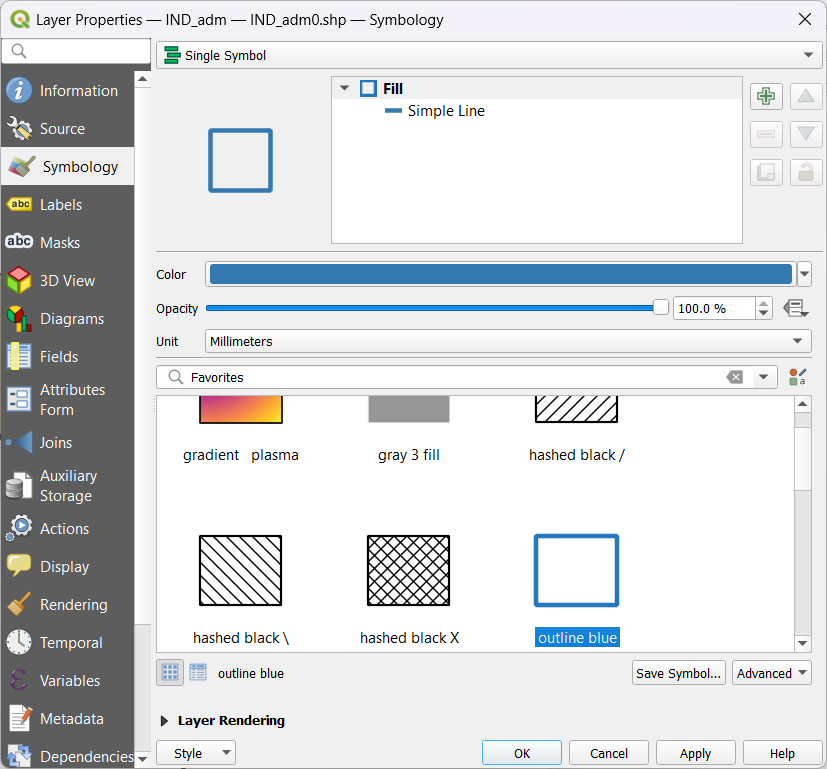


**Setting properties:**

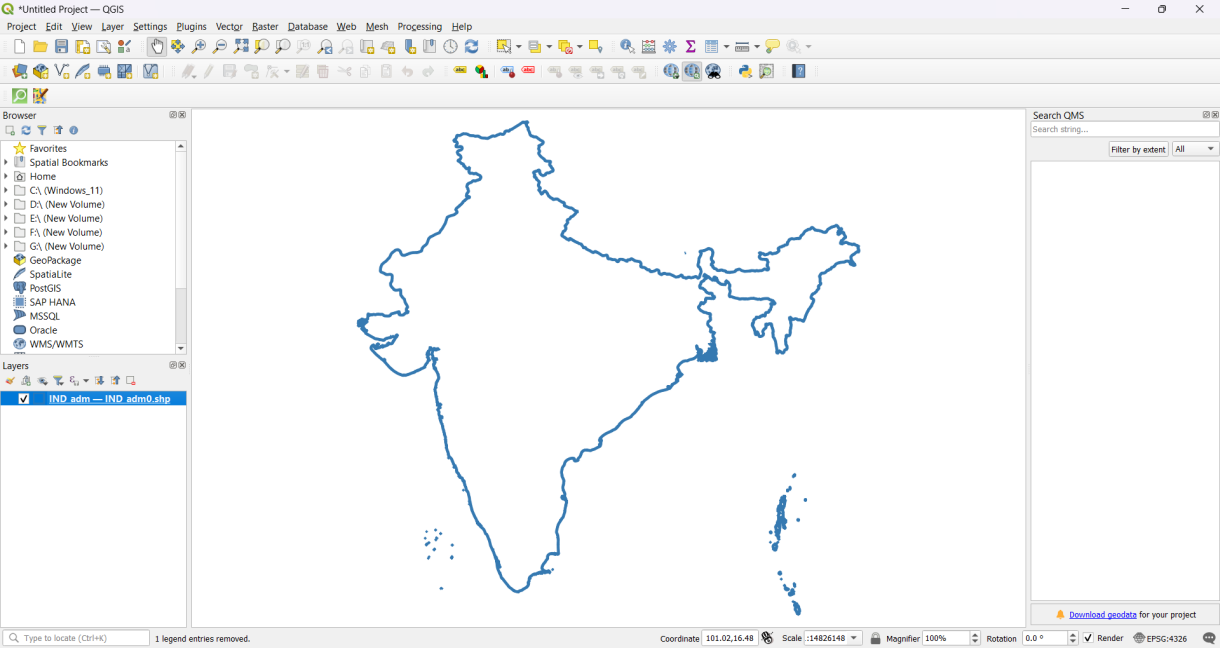
Right Click on IND adm0.shp layer > Properties >



Go to Symbology > select color(Outline blue) > Apply >

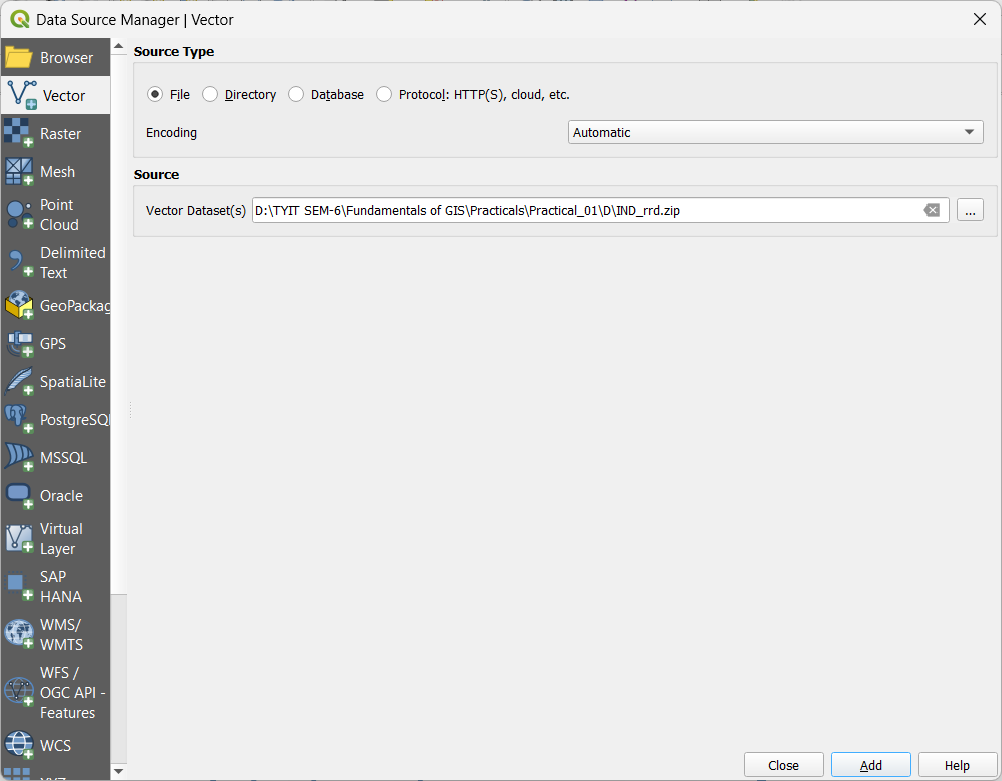


Output after setting color properties >



**Formatting and calculating line lengths and statistics:**

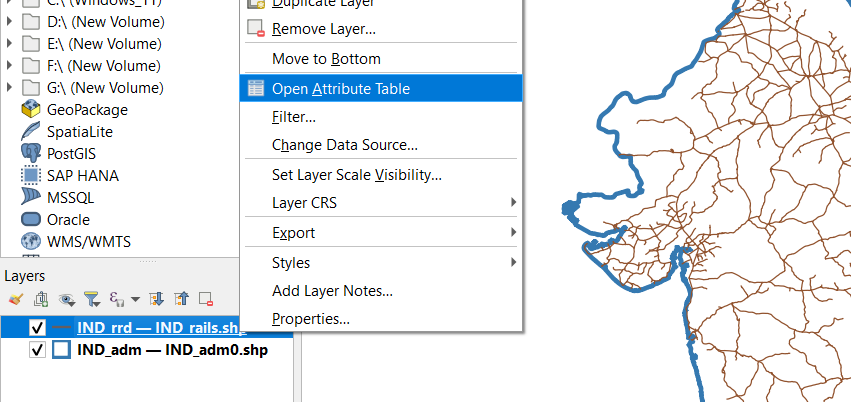
Add layer > Add Vector Layer > Browse Vector Database > IND\_rrd.zip > Add >



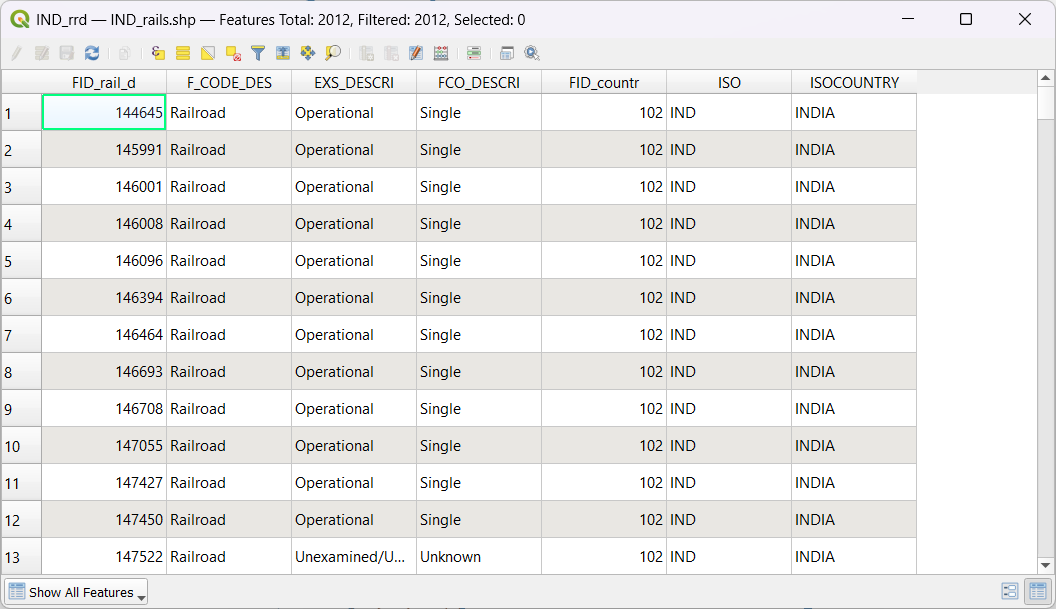
Output after adding IND\_rrd >



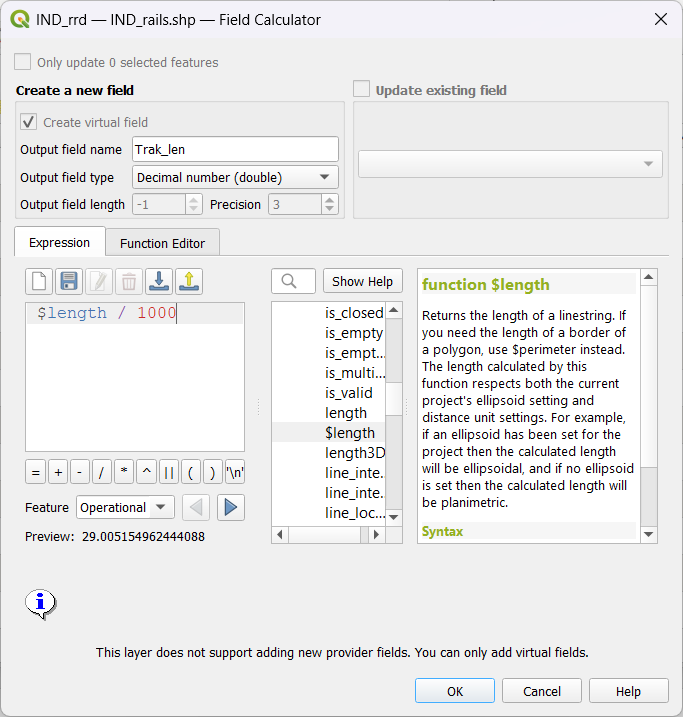
Right click on IND rails.shp layer > Open Attribute Table >



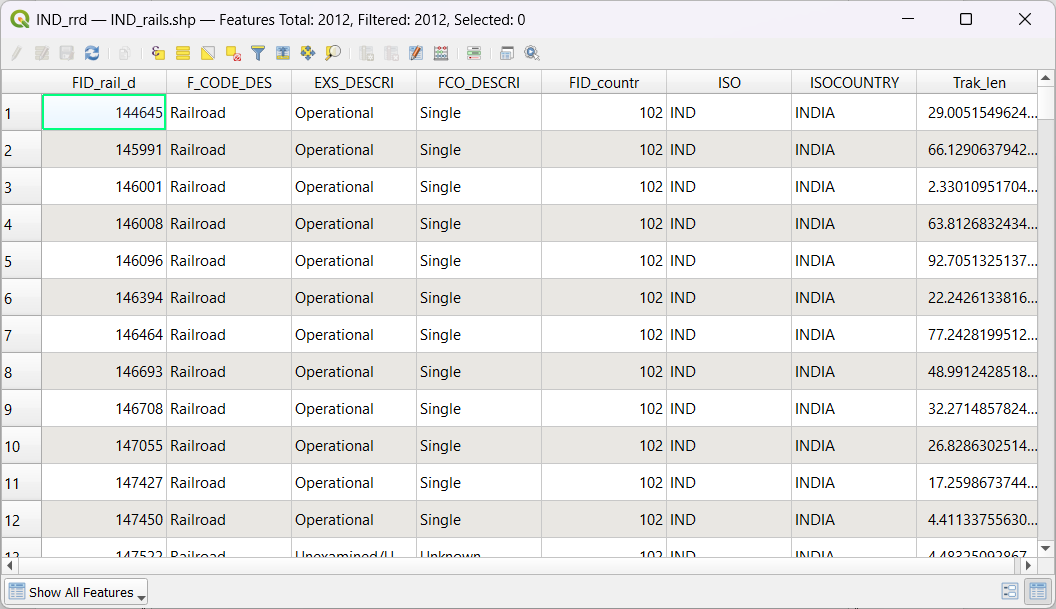
Attribute Table of IND\_rails.shp >



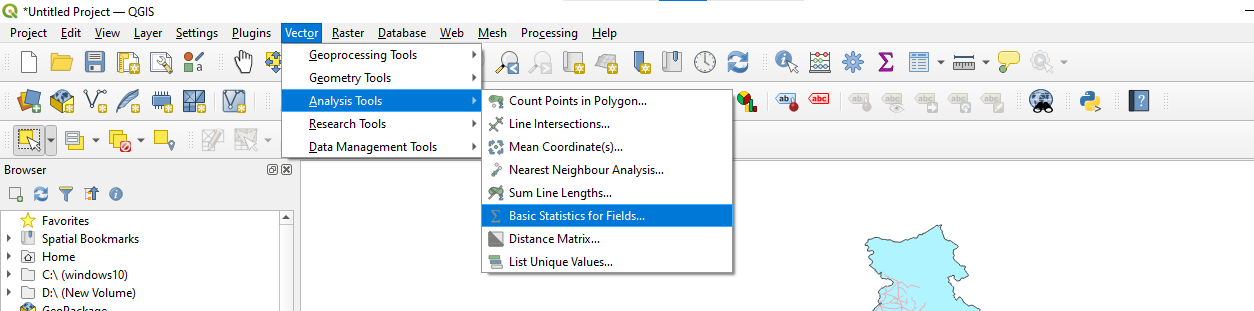
At attribute table > Open field Calculator > Set Output field name : Trak\_len> Set Output field type : Decimal number > Set expression : $length / 1000 > ok



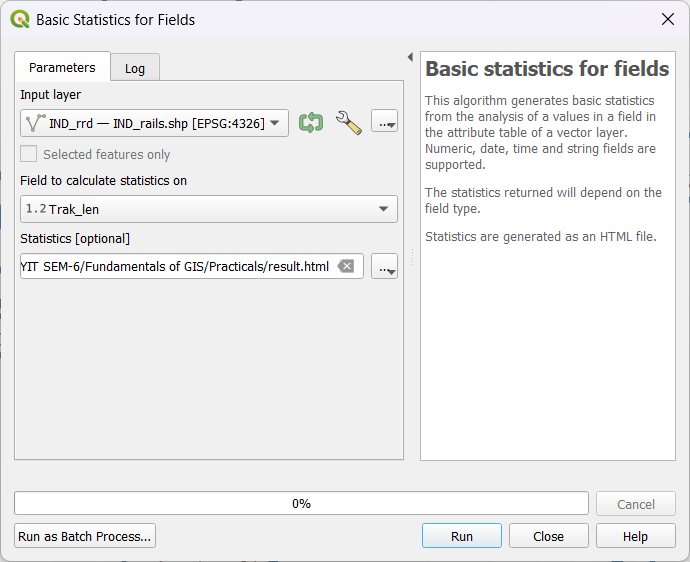
Attribute table after adding Trak\_len field >



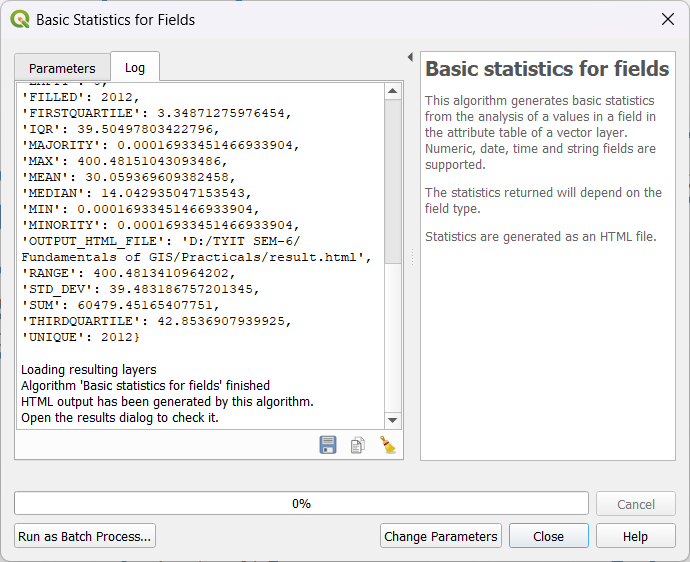
Select Vector > Analysis Tools > Basic Statistics for fields.. > click



Open Basic Statistics for fields > select Input layer : IND\_rails.shp > Set Field to calculate statistics on : Trak\_len > Save as and give name in html format > Run



Output of log content > Click Close >



Line lengths and statistics :

