

# USIT 6P4 Principles of Geographic Information Systems Practical #4

Name	Sanjeev Gupta	Roll Number	21302B0023
Class	TY BSC IT	Division	С
Subject/Course	USIT 6P4 Principles of Geographic Information Systems		
Topic	Working with attributes of vector data, terrain Data		

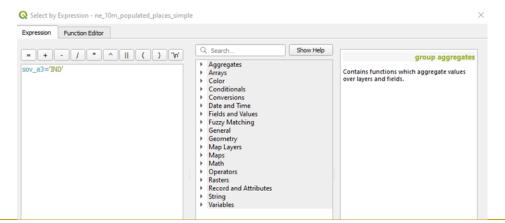
## **Explain Terrain Data**

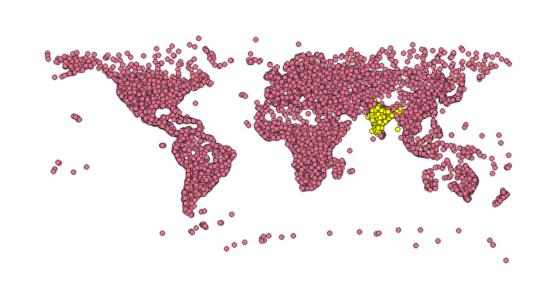
A Termain Dataset Is a multimesolution, Tin-based Surface Buil:
twom measurements stored as features in A Geodatabase.
They're Typically made from Lidar, Sonar, And Photogrammetric
Sounces. Tennains Reside in the Geodatabase, Inside Feature
Datasets with The Features Used to Construct Them.

# Working with attributes of Vector Data (Select features): [Write steps and add screenshots]

**Filename:** ne\_10m\_populated\_places\_simple.shp

**Steps:** Attribute Table -> select feature (using expressions) -> column\_name='IND'





#### Query -

soc\_a3='IND'

soc\_a3='IND' or soc\_a3='AUS'

sov\_a3='IND' or sov\_a3='AUS' and pop\_max>100000

sov\_a3='IND' or sov\_a3='AUS' or sov\_a3='BRA' and pop\_max>100000

sov\_a3='IND' and (rank\_max > '8')

### Terrain Data and Hill shade analysis: [Write steps and add screenshots]

Filename: 10n060e\_20101117\_gmted\_mea300.tif (raster layer)

#### Steps -

Raster->Extraction->Clip to extend-> use canvas extend

Raster->Analysis->Hillshade->clipped

Raster->extraction->contour->input (select clipped layer)

