

## Place Populations by State/Province

What are the populations of each state/province in one country?

"Map4Notebook" First we select the country by using it's name as stored in the ADM1NAME filed: "Map4Notebook"

```
[19]: arcpy.env.overwriteOutput = True
arcpy.env.workspace = r"C:\Arcpy\LPA\Data\sample.gdb"
placesFC = r"C:\Arcpy\LPA\Data\ne_10m_populated_places.shp"
arcpy.Select_analysis(placesFC, "places1country", "ADM0NAME = 'Uganda'")
```

### [19]: Messages

Start Time: Sunday, December 28, 2025 2:01:15 PM

Succeeded at Sunday, December 28, 2025 2:01:20 PM (Elapsed Time: 4.30 seconds)

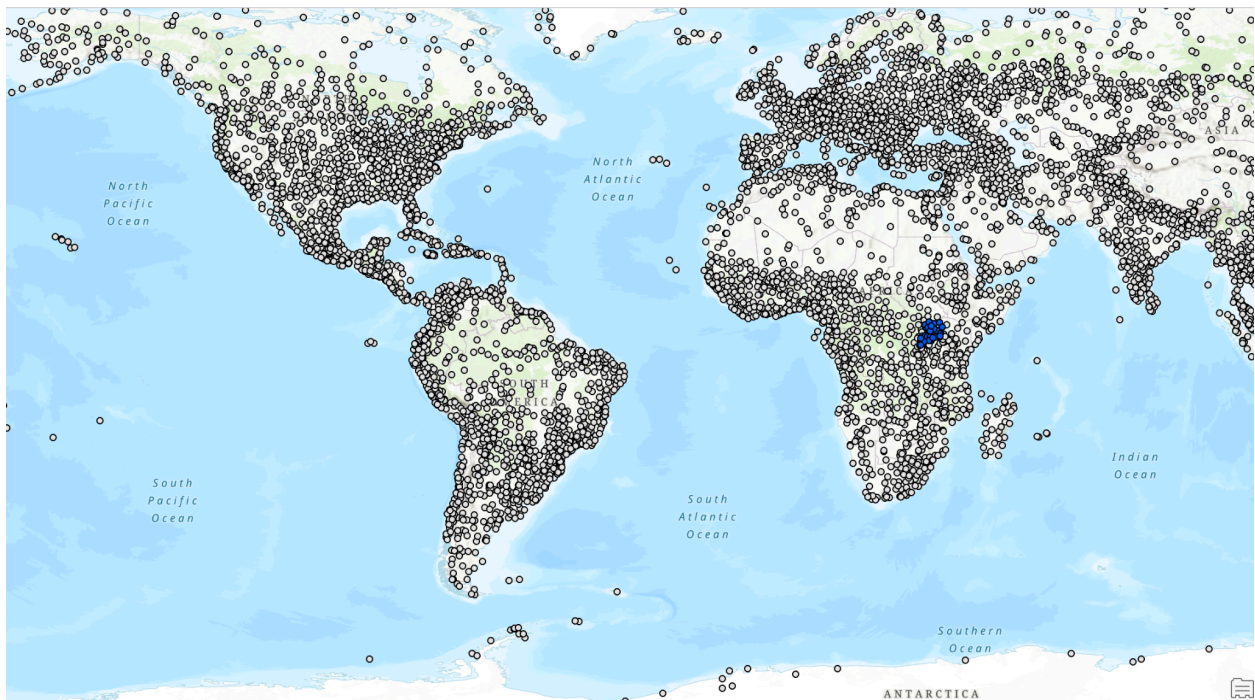
Now we'll summarize the population by the state or province, and sort the results:

```
[23]: arcpy.Statistics_analysis("Places1Country", "Places1CountryStats", [{"POP_MAX", "SUM"}], "ADM1NAME")
arcpy.Sort_management("Places1CountryStats", "Places1CountryStatsStored", "SUM_POP_MAX")
```

### [23]: Messages

Start Time: Sunday, December 28, 2025 2:26:54 PM

Succeeded at Sunday, December 28, 2025 2:26:55 PM (Elapsed Time: 1.06 seconds)



This project uses ArcPy to select populated places within a single country and summarize population totals by state or province. Population values are aggregated using statistical tools and sorted to identify the most populated administrative regions.

**Tools:** ArcGIS Pro, ArcPy, Python, Populated Places shapefile

