Assignment 3

# Part A

## 1.

The EU country administrative border datasets were published to the SDE database using the *feature class to feature class* tool in ArcGIS Pro. For the keyboard configuration PG\_GEOMETRY was used.

## 2.

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Figure 1.: Sharing the web layer

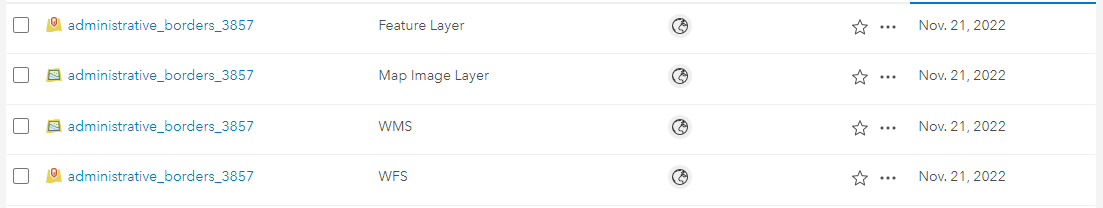
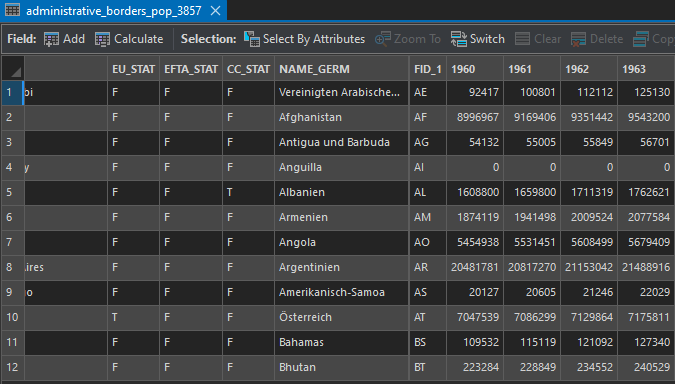
The data then can be viewed in the geoportal (see figure 2).

Figure 2.: According layers uploaded to the Geoserver

## 3. & 4.

Using QGIS the downloaded table was added. Using the *join* functionality, the population data was added to the shapefile and then exported to a new shapefile (see figure 3 and 4). For some reason this didn’t seem to work in ArcGIS Pro (trying to open the table resulted in a crash).

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Figure 4.: Joining the data in QGIS

Figure 3.: Attribute table of new shapefie in ArcGIS Pro

## 5. & 6.

Same procedures as in numbers 1 and 2.

The shapefile was added to the database and shared as web layer to the portal.

## 7.

The primary usage capabilities from ArcGIS Image and OGC WMS services are to dynamically access maps from the internet. The services can offer multiple maps and can be individually styled. The capabilities document contains the metadata for the according service.

## 8.

ArcGIS feature services and OGC WFS make geospatial vector data easily accessible from the internet. The data by default is returned in Geography Markup Language. The getCapabilities query returns a document that describes the functionality and resources offered by the WFS service that is provided by the server.

# Part B

Metadata for the feature layer (figure 5)

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Figure 5.: Metadata of the feature layer

Link to data:

<https://zgis216.geo.sbg.ac.at/server/rest/services/22W856162/administrative_borders_pop_3857/FeatureServer/0>

Link to Web App:

<https://geoportal22s.zgis.at/portal/apps/webappviewer/index.html?id=fe7a619b69eb4e1db6df5c3d59f3d833&extent=-12754103.6566%2C-3599027.4005%2C16989072.7897%2C12603176.611%2C102100>

Link to Web Map:

<https://geoportal22s.zgis.at/portal/home/webmap/viewer.html?webmap=5e83fdf7d285463ba881d1b8823dae47>