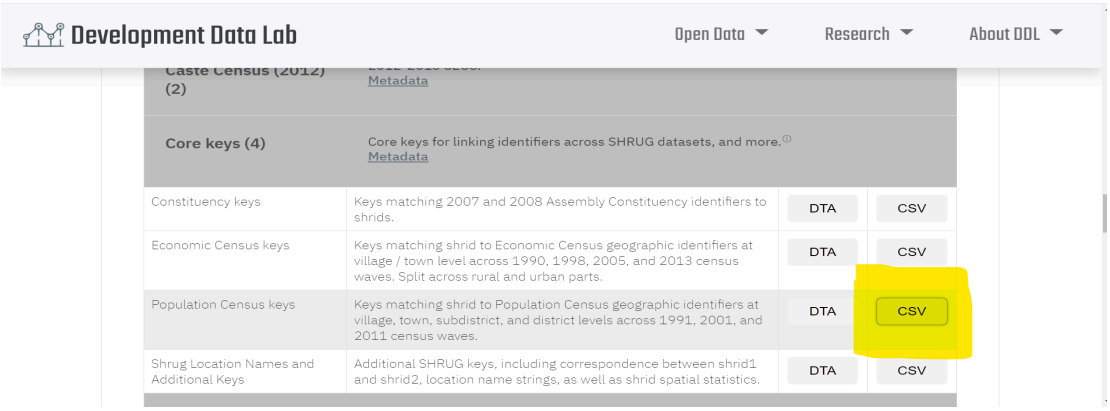
SHRUG Mapping:

a) Website: https://www.devdatalab.org/shrug_download/

b) Download Population Census Keys:



- **Data:** https://drive.google.com/drive/folders/1wS1pwcPW3JP4d0UkcQl0n56-ERxfwgOH?usp=drive_link

c) SHRUG Mapping:

- Map 2001 rural villages (pc01r_shrid_key.csv) with 2011 rural villages (pc11r_shrid_key.csv) using 'shrid2'
- Similarly, map 2001 urban villages (pc01u_shrid_key.csv) with 2011 urban villages (pc11u_shrid_key.csv) using 'shrid2'
- Combine final rural and urban villages:

```
In [2]: shrug_mapping.columns
Out[2]:
Index(['shrid2', 'pc01_state_id', 'pc01_district_id', 'pc01_subdistrict_id',
       'pc01_land_area', 'pc01_pca_tot_p', 'pc11_state_id', 'pc11_district_id',
       'pc11_subdistrict_id', 'pc11_land_area', 'pc11_pca_tot_p',
       'Town/Village_01', 'Town/Village_11'],
      dtype='object')
```

- **Code:**
  https://drive.google.com/file/d/1TM-s74YZxNnAt_ExTic3gNnCYq19fZVX/view?usp=drive_link

- **SHRUG Mapping:**
  https://drive.google.com/file/d/1lNKmS_gTr7Qc8ukI6B-Gwbzl1yp-2Urv/view?usp=drive_link

d) Add District name:

- District name from Census 2001:
  Link: https://www.educationforallinindia.com/page163.html

- Merge District names with each GEOJSON file
- **Code:** https://drive.google.com/file/d/1iZOZd1_IOEIC2aGojHUvwGPrsNAzoCYP/view?usp=drive_link

- **Data Folder:**
  https://drive.google.com/drive/folders/1dbHGLhC5vzcamOXlnmkcIgohhZBNitLj?usp=drive_link

e) Combine SHRUG and Shapefiles **(Village Level)**:

- Based on shrug_mapping.csv (Step 2), we will combine shrug and shapefile to form the final shapefiles. These shapefiles will contain village IDs of the year 2001, village IDs of the year 2011, the geometry of villages, and other metadata.
- **Code:** https://drive.google.com/file/d/1DGHs2pzAx1zGdtKGuQaXK1SrDtN7BoMi/view?usp=drive_link

- **Final SHRUG folder:**
  https://drive.google.com/drive/folders/1jYvJTIgwR4OeH05RrQOUMrrnNuJHMut3?usp=drive_link