Problem 2 (10 pts)

In dm_mid2_a.csv, the prefecture names (pref) of Japan and the populations (pop) of these prefectures are recorded. Also, in dm_mid2_b.csv, the prefecture names (pref) and the numbers of births (born) on them are recorded. Answer the following questions by using dm_mid2_a.csv, dm_mid2_b.csv, dm_mid2_sample.ipynb and geojson file japan.json as needed.

1. Read dm_mid2_a.csv and dm_mid_b.csv into dataframes respectively, and merge them by matching two pref columns.

2. Draw a choropleth map using the number of births in each prefecture.

3. Calculate the number of births per ten thousand population in each prefectures and draw a choropleth map by using it.

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