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import requests
import xml.etree.ElementTree as ET
import pandas as pd

# Valori pro capite
dataset = '93_1227_DF_DCCN_TNA1_6'
data_url = f'https://esploradati.istat.it/SDMXWS/rest/data/IT1,{dataset},1.0/A...../ALL/'
response = requests.get(data_url)
root = ET.fromstring(response.content)
# Namespace XML per SDMX aggiornato
ns = {"message": "http://www.sdmx.org/resources/sdmxml/schemas/v2_1/message", "generic": "http://www.sdmx.org/schemas/generic/v2_1/generic"}
data = []
for series in root.findall("./generic:Series", namespaces=ns):
    series_key = series.find("generic:SeriesKey", namespaces=ns)
    attributes = {value.attrib["id"]: value.attrib["value"] for value in series_key.findall("generic:ObsValue", namespaces=ns)}
    for obs in series.findall("generic:Obs", namespaces=ns):
        time_period = obs.find("generic:ObsDimension", namespaces=ns).attrib["value"]
        obs_value = obs.find("generic:ObsValue", namespaces=ns).attrib["value"]
        data.append(**attributes, "TIME_PERIOD": time_period, "OBS_VALUE": float(obs_value))
df = pd.DataFrame(data)
# Valori pro capite
df1 = df.query('VALUATION == "V" and TIME_PERIOD == "2022" and DATA_TYPE_AGGR in ["B1G_B_W2_S1_R_POP"]')
df1.replace("B1GQ_B_W2_S1_R_POP", "PIL/abitante").replace("B1G_B_W2_S1_R_POP", "Val.Aggiunto/abitante")
ValProCapite = pd.pivot_table(df1, index = 'REF_AREA', columns='DATA_TYPE_AGGR', values = 'OBS_VALUE')

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ValProCapite

DATA_TYPE_AGGR REF_AREA	PIL/abitante	Val.Aggiunto/abitante
IT	33849.1525	30384.3890
IT108	35902.5230	32196.6740
IT109	27444.0810	24599.9405
IT110	18284.2670	16411.6020
IT111	17877.2715	16044.9805
...
ITG25	24843.3885	22298.7175
ITG26	22217.6530	19942.8285
ITG27	32173.3965	28878.8600
ITG28	20238.0795	18164.9005
ITZ	0.0000	0.0000

```
ValProCapite.to_excel(writer, sheet_name='ValProCapite', startrow=3, startcol=2)

sheet_to_update = tabella
book = load_workbook(file_path)
with pd.ExcelWriter(file_path, engine='openpyxl', mode='a', if_sheet_exists='replace') as wr:
    df.to_excel(writer, sheet_name=sheet_to_update, index=False)
```