Preparing the environment:

Docker run --name some-postgres -p 5432:5432 -e POSTGRES\_PASSWORD=heslo123 -d postgres

Conda create -n dell-code-challenge python=3.10 anaconda

Conda activate dell-code-challenge

Pip install pandas

Pip install sqlalchemy

Pip install requests

Pip install psycopg2-binary

Pip install io

pip install python-slugify

Pip install Pyarrow

Pip install cartopy

Pip install matplotlib

Findings:

Data source 1:

The data comes with weekly granularity instead of daily. The data source updates have been discontinued since week 47 in 2023. Dataset involves only countries from eurozone, as part of enrichment exercise I suggest using WHO dataset which provides up to date data about whole world.

Data source 2:

The csv file has non-database friendly header and needs to be adjusted. Records contain whitespaces that need to be trimmed. Dataset contains information from 2017, therefore rather outdated.

Data source 1 countries:

A map of the world

Description automatically generated

Suggested WHO countries:

A map of the world

Description automatically generated