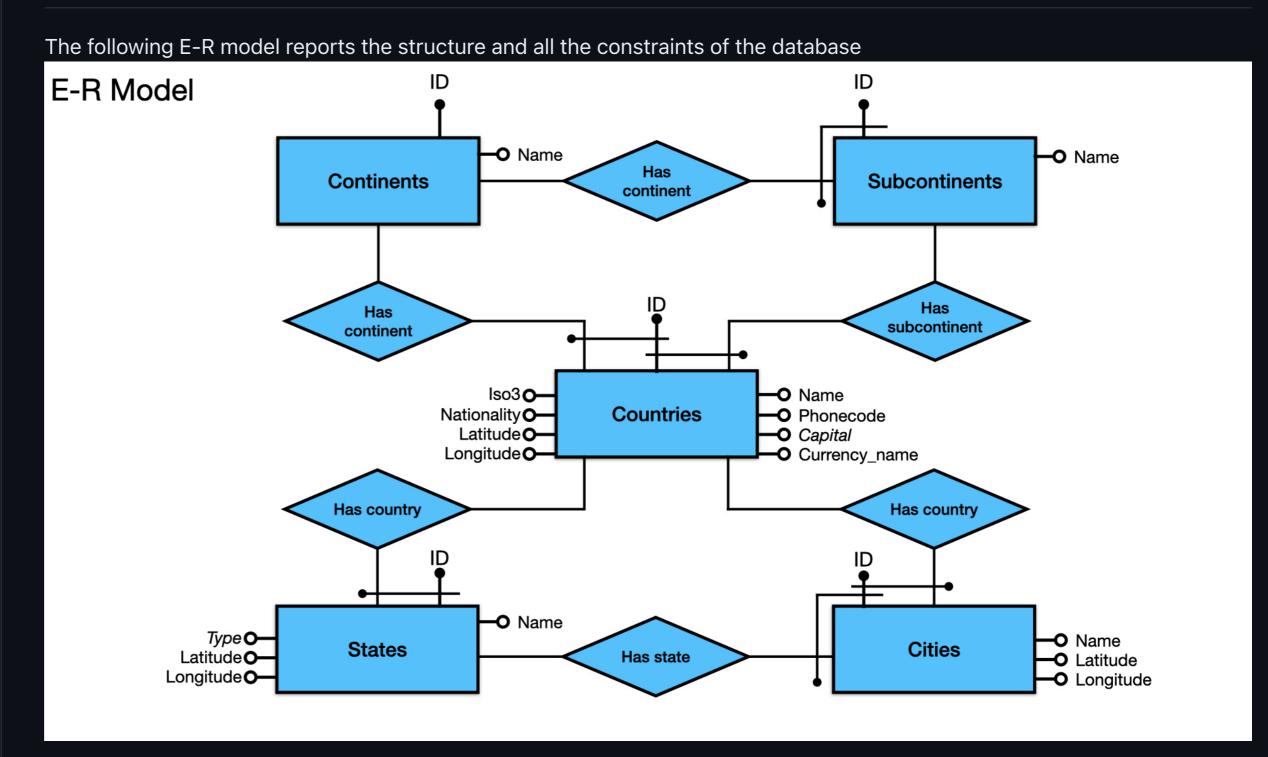


Entity Relationship model

• Total Cities/Towns/Districts: 150,573

• Total States/Regions/Municipalities/Provinces: 5,084

• Total Countries: 250



For each table, the attributes and the constraints are resumed:

- CONTINENTS(id, name)
- SUBCONTINENTS(id, name, continent_id)
- COUNTRIES(**id**, name, iso3, phonecode, *capital*, currency_name, *continent_id*, *subcontinent_id*, nationality, latitude, longitude)
- STATES(**id**, name, country_id, *typ*e, latitude, longitude)
- CITIES(id, name, state_id, country_id, latitude, longitude)

N.B. black dotted/bold attributes are primary keys, italic attributes can assume NULL values.

Get Started

• run /2_preprocess.py (to modify the original csv files)

In PostgreSQL:

- run /3_database_definition.sql (to create tables and set constraints on tables)
- run /4_non_optimized_queries.sql (to run the non optimized queries)
- run /5_optimized_queries.sql (to run the optimized queries and their unefficient version)