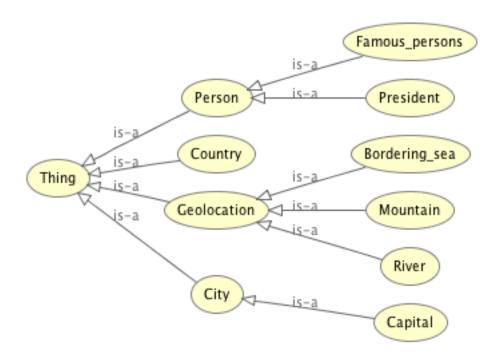
Central America ontology

Ontology with countries in central America.



Object properties:

- Country <u>has a</u> capital
- Sea borders a country
- River is located_in a country

A few instance examples are:

- Salma Hayek is a famous_person born_in Mexico
- The country Nicaragua has_capital Manuaga
- The country Mexico borders the Gulf of Mexico

Object property – Class – Instance

Queries

Prefixes used for all queries

PREFIX rdf: http://www.w3.org/1999/02/22-rdf-syntax-ns#

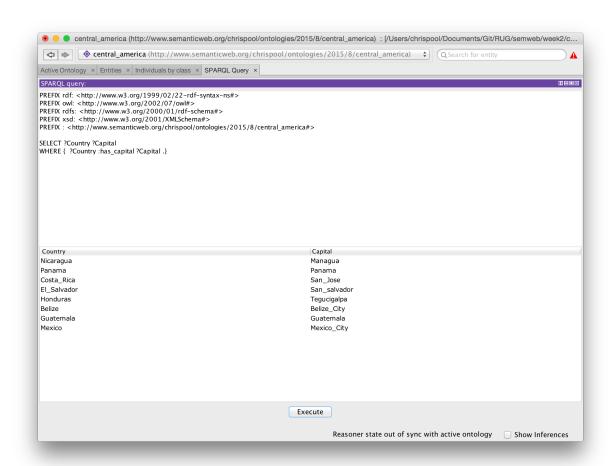
PREFIX owl: ">PREFIX owl: http://www.w3.org/2002/07/owl#>

PREFIX rdfs:
PREFIX xsd:
http://www.w3.org/2001/XMLSchema">
http

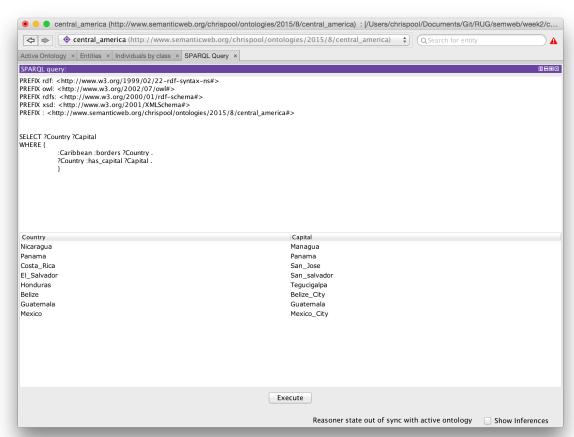
PREFIX: PREFIX: http://www.semanticweb.org/chrispool/ontologies/america#

1 - Display all countries and their capitals

SELECT ?Country ?Capital WHERE { ?Country :has_capital ?Capital .}

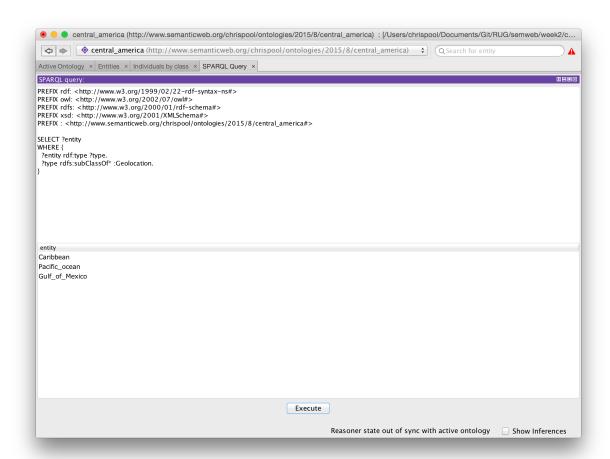


2 - Display all capitals of countries bordering the Caribbean sea



3 - Display all geolocations (only geolocations type)

```
SELECT ?entity
WHERE {
  ?entity rdf:type ?type.
  ?type rdfs:subClassOf* :Geolocation.
}
```



4 - Display all persons that are famous persons (subclass of persons)

```
SELECT ?entity
WHERE {
    ?entity rdf:type :Famous_person.
```

}

5 - Display cities that contain the combination Au

```
SELECT ?capital
WHERE { ?country :has_capital ?capital
FILTER regex(?capital,'^ua','i')
}
```

