Assignment 3: Advanced set of SPARQL queries

Create the SPARQL query and the result for the following queries expressed in natural language. The endpoint that you can use for this exercise is: http://es.dbpedia.org/sparql

- **Get all the properties that can be applied to instances of the Politician class (<http://dbpedia.org/ontology/Politician>)**

SELECT DISTINCT ?property

WHERE {

 ?politician a <http://dbpedia.org/ontology/Politician> .

 ?politician ?property ?value .

}

- **Get all the properties, except rdf:type, that can be applied to instances of the Politician class**

SELECT DISTINCT ?property

  WHERE {

   ?politician a <http://dbpedia.org/ontology/Politician> .

   ?politician ?property ?value .

   FILTER (?property != rdf:type)

  }

- **Which different values exist for the properties, except for rdf:type, applicable to the instances of Politician?**

SELECT DISTINCT ?property ?value

  WHERE {

   ?politician a <http://dbpedia.org/ontology/Politician> .

   ?politician ?property ?value .

   FILTER (?property != rdf:type)

  }

- **For each of these applicable properties, except for rdf:type, which different values do they take globally for all those instances?**

SELECT DISTINCT ?property (GROUP_CONCAT(DISTINCT ?value; SEPARATOR=", ") AS ?values)

```
WHERE {

 ?politician a <http://dbpedia.org/ontology/Politician> .

 ?politician ?property ?value .

 FILTER (?property != rdf:type)

}

GROUP BY ?property
```

- **For each of these applicable properties, except for rdf:type, how many distinct values do they take globally for all those instances?**

```
SELECT ?property (COUNT(DISTINCT ?value) AS ?numDistinctValues)

WHERE {

 ?politician a <http://dbpedia.org/ontology/Politician> .

 ?politician ?property ?value .

 FILTER (?property != rdf:type)

}

GROUP BY ?property

ORDER BY DESC(?numDistinctValues)
```