

ASSIGNMENT SPARQL – 27/09/22

Open Data And Knowledge Graph

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

```
PREFIX dbo: <http://dbpedia.org/ontology/>
```

```
SELECT ?prop where{  
  dbo:Politician ?prop ?instance.  
}
```

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

```
PREFIX dbo: <http://dbpedia.org/ontology/>  
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
```

```
SELECT ?prop where{  
  dbo:Politician ?prop ?instance  
  filter (?prop not in (rdf:type)).  
}
```

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

```
PREFIX dbo: <http://dbpedia.org/ontology/>  
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
```

```
SELECT DISTINCT ?prop where{  
  dbo:Politician ?prop ?instance  
  filter (?prop not in (rdf:type)).  
}
```

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

```
PREFIX dbo: <http://dbpedia.org/ontology/>  
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
```

```
SELECT DISTINCT ?prop ?instance where{  
  dbo:Politician ?prop ?instance  
  filter (?prop not in (rdf:type)).  
}
```

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

PREFIX dbo: <http://dbpedia.org/ontology/>

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

```
SELECT DISTINCT ?prop COUNT(?instance) where {  
  dbo:Politician ?prop ?instance  
  filter (?prop not in (rdf:type)).  
}  
GROUP BY ?prop
```