

SPARQL Assignment

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

```
SELECT ?property where{
  dbo:Politician ?property ?o.
}
```

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 ?property where{
  dbo:Politician ?property ?o.
  filter(?property 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 ?property where{
  dbo:Politician ?property ?o.
  filter(?property 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 ?property ?o where{
  dbo:Politician ?property ?o.
  filter(?property 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 ?property COUNT(?o) as ?num where{
  dbo:Politician ?property ?o.
  filter(?property not in (rdf:type))
}
```

```
ORDER BY ?num
```