Open Data And Knowledge Graphs

Practical Work: Advanced set of SPARQL queries

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In all queries LIMIT as been introduced to reduce the answers of the query. If you want all results, please delete the LIMIT.

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1. Get all the properties that can be applied to instances of the Politician class (http://dbpedia.org/ontology/Politician)
select ?property
where {
?x a <http: dbpedia.org="" ontology="" politician=""> .</http:>
?x ?property []
} LIMIT 1000
2. Get all the properties, except rdf:type, that can be applied to instances of the Politician class
select distinct ?property
where {
?x a <http: dbpedia.org="" ontology="" politician=""> .</http:>
?x ?property [].
FILTER (?property != rdf:type)
} LIMIT 1000
3. Which different values exist for the properties, except for rdf:type, applicable to the instances of Politician?
select distinct ?property ?value
where {
?x a <http: dbpedia.org="" ontology="" politician=""> .</http:>

```
?x?property?value.
FILTER (?property != rdf:type)
} LIMIT 1000
4. For each of these applicable properties, except for rdf:type, which different
values do they take globally for all those instances?
select distinct ?property ?valuesForAll
where {
?x a < http://dbpedia.org/ontology/Politician>.
?x ?property ?valuesForPoliticians.
?y?property?valuesForAll.
FILTER (?property != rdf:type)
} LIMIT 1000
5. For each of these applicable properties, except for rdf:type, how many distinct
values do they take globally for all those instances?
select distinct ?valuesForAll
where {
?x a <http://dbpedia.org/ontology/Politician> .
?x ?property ?valuesForPoliticians.
```

NOTE: To obtain the Distinct values for each property, I considered using group by to group each property with their different values, but DBpedia informed me that the query would take too long.

?y?property?valuesForAll.

FILTER (?property != rdf:type)

} LIMIT 1000