

# Advanced set of SPARQL queries

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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 source: <http://dbpedia.org/ontology/>
```

```
select distinct ?property
```

```
where {
```

```
?x rdf:type source:Politician.
```

```
?x ?property ?instances .
```

```
}
```

### the prefix is used to save the big part of the url so when used inside the query I would just have to write the remaining part of the URL.

### in this case I am retrieving all the properties but ignoring duplicates , that is why I use the distinct

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

```
prefix source: <http://dbpedia.org/ontology/>
```

```
select count( distinct ?property)
```

```
where {
```

```
?x rdf:type source:Politician.
```

```
?x ?property ?instances .
```

```
filter(?property != rdf:type) .
```

```
}
```

## the filter function is like the except in sql

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

```
prefix source: <http://dbpedia.org/ontology/>

select distinct ?values
where {
  ?x rdf:type source:Politician.
  ?x ?property ?values .
  filter(?property != 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 source: <http://dbpedia.org/ontology/>

select distinct ?property ?values
where {
  ?x rdf:type source:Politician.
  ?x ?property ?values .
  filter(?property != 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 source: <http://dbpedia.org/ontology/>

select distinct ?property count(distinct ?values)
where {
  ?x rdf:type source:Politician.
  ?x ?property ?values .
  filter(?property != rdf:type) .
}
```