IIW-4: SPARQL-RDF

1.Get the names of all Painter(10points) Query:

SELECT ?pname
WHERE {?name rdf:type dbo:Painter .
?name rdfs:label ?pname}

Top 10 Results:

pname
"Alice Mumford"@en
"Carlo Mazza"@en
"Christian Reder"@en
"Elmer Wachtel"@en
"Faustino Duranti"@en
"Fritz Janschka"@en
"George Cope (artist)"@en
"Giovanni Battista Cungi"@en
"Giovanni Nicola di Paolo Manni"@en
"Giovanni Stanchi"@fr

2. How many Painter are in dbpedia? (10 points) Query:

SELECT count(?name) as ?Number_Of_Painter WHERE {?name rdf:type dbo:Painter}
Top Results:

Number_Of_Painter

```
3.What are the subclasses of Artist? (10points)

Query:

SELECT ?name

WHERE {?name rdfs:subClassOf dbo:Artist.}

GROUP BY ?name

Top Results:
```

```
http://dbpedia.org/ontology/Actor
http://dbpedia.org/ontology/ComicsCreator
http://dbpedia.org/ontology/Dancer
http://dbpedia.org/ontology/Humorist
http://dbpedia.org/ontology/MusicalArtist
http://dbpedia.org/ontology/Painter
http://dbpedia.org/ontology/Comedian
http://dbpedia.org/ontology/FashionDesigner
http://dbpedia.org/ontology/Photographer
http://dbpedia.org/ontology/Sculptor
```

4.Get the English names of all Actor that starred in the movie "A Christmas Tale" sorted in ascending order by name. (15 points)

Query:

```
SELECT ?name
WHERE {
dbr:A_Christmas_Tale dbo:starring ?actors .
?actors rdf:type dbo:Actor ; rdfs:label ?name .
FILTER(lang(?name)="en")
}
ORDER BY ?name
```

Top Results

mame

"Chiara Mastroianni"@en

"Melvil Poupaud"@en

5.Get the English names and the birth datesof all Artistborn before the year 1800 with "David" in their name, sorted in descending order of their birth date.(15points)

Query:

```
SELECT ?label, ?dop
WHERE {?name rdf:type dbo:Artist .
?name dbo:birthDate ?dop .
?name rdfs:label ?label .
filter (lang(?label) = 'en')
filter( regex(?label, "David" ))
filter (?dop < "1800-12-31"^^xsd:date)
}
ORDER BY DESC(?dop)
```

Top 10 Results:

label	dop
"David Claypoole Johnston"@en	1798-03-25
"David Roberts (painter)"@en	1796-10-24
"David Gee"@en	"1793"^^ <http: 2001="" www.w3.org="" xmlschema#gyear=""></http:>
"David Cox (artist)"@en	1783-04-29
"David Cusick"@en	"1780"^^ <http: 2001="" www.w3.org="" xmlschema#gyear=""></http:>
"David Edwin"@en	"1776"^^ <http: 2001="" www.w3.org="" xmlschema#gyear=""></http:>
"David Weller (painter)"@en	"1759"^^ <http: 2001="" www.w3.org="" xmlschema#gyear=""></http:>
"Jacques-Louis David"@en	1748-08-30
"François-Anne David"@en	"1741"^^ <http: 2001="" www.w3.org="" xmlschema#gyear=""></http:>
"David Martin (artist)"@en	1737-04-01

6.Get the English names of all Artistthat plays exactly 10kinds of instruments, but does not play Guitar Sort the results in ascending order of names.(20points)

Query:

```
SELECT ?label, count(?i)
WHERE {
?name rdf:type dbo:Artist .
?name rdfs:label ?label .
?name dbo:instrument ?i .
filter (lang(?label) = 'en')
filter not exists {
?name rdf:type dbo:Artist .
?name rdfs:label ?label .
?name dbo:instrument dbr:Guitar .
}
}
GROUP BY ?label
HAVING (count(?i) = 10)
ORDER BY ?label
```

Top 10 Result:

label	callret-1
"Benson Taylor"@en	10
"Bernard Sumner"@en	10
"Cary Hudson"@en	10
"Chris Leslie (folk musician)"@en	10
"Collin Leijenaar"@en	10
"Drew Shirley"@en	10
"Eric Johnson"@en	10
"Grant-Lee Phillips"@en	10
"Gregg Giuffria"@en	10
"Jeff Coffin"@en	10

7. Provide another interesting query related to the Artistclass and list the returned results. This query should be substantially different from the previous. (20 points)

Description: Fetch all the names of the Artist born in United States currently living in Los Angeles doing more than 2 occupation and has a wiki page. Query:

SELECT ?label, ?birthplace, ?ht, count(?occ)
WHERE {?name rdf:type dbo:Artist .
?name dbo:birthPlace ?birthplace.
?name dbo:hometown ?ht .
?name dbo:occupation ?occ .
?name dbo:wikiPageID ?wiki .
?name rdfs:label ?label .
filter (regex(?ht,"Los_Angeles")).
filter (regex(?birthplace,"United_States")) }
GROUP BY ?label ?ht ?birthplace
HAVING (count(?occ) > 2)
ORDER BY ?label

Top 10 Results:

T .				
label	birthplace	ht	callret-	
"Adriana Evans"@en	http://dbpedia.org/resource/United_States	http://dbpedia.org/resource/Los_Angeles	3	
"Ash Riser"@en	http://dbpedia.org/resource/United_States	http://dbpedia.org/resource/Los_Angeles	7	
"Barry Carl"@en	http://dbpedia.org/resource/United_States	http://dbpedia.org/resource/Los_Angeles	5	
"Bud'da"@en	http://dbpedia.org/resource/United_States	http://dbpedia.org/resource/Los_Angeles	4	
"C.P Dubb"@en	http://dbpedia.org/resource/United_States	http://dbpedia.org/resource/Los_Angeles	3	
"Colette Carr"@en	http://dbpedia.org/resource/United_States	http://dbpedia.org/resource/Los_Angeles	4	
"D Fuse"@en	http://dbpedia.org/resource/United_States	http://dbpedia.org/resource/Los_Angeles	4	
"DJ Heavygrinder"@en	http://dbpedia.org/resource/United_States	http://dbpedia.org/resource/Los_Angeles	4	
"Davetta Sherwood"@en	http://dbpedia.org/resource/United_States	http://dbpedia.org/resource/Los_Angeles	3	
"Dillon Francis"@en	http://dbpedia.org/resource/United_States	http://dbpedia.org/resource/Los_Angeles	3	