**1. Get the names of all Painter**

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

select ?painter\_name

where {

?painter\_res rdf:type dbo:Painter;

rdfs:label ?name1

BIND(str(?name1) as ?painter\_name)

FILTER(langmatches(lang(?name1),"en"))

}

**First 10 Results:**

|  |
| --- |
| **painter\_name** |
| Alice Mumford |
| Carlo Mazza |
| Christian Reder |
| Elmer Wachtel |
| Faustino Duranti |
| Fritz Janschka |
| George Cope (artist) |
| Giovanni Battista Cungi |
| Giovanni Nicola di Paolo Manni |
| Giovanni Stanchi |

**2. How many Painter are in dbpedia?**

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

select COUNT(?painter\_name) as ?No\_Of\_Painters

where {

?painter\_res rdf:type dbo:Painter;

rdfs:label ?name1

BIND(str(?name1) as ?painter\_name)

FILTER(langmatches(lang(?name1),"en"))

}

**Results:**

|  |
| --- |
| **No\_Of\_Painters** |
| 2872 |

**3. What are the subclasses of Artist?**

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

SELECT \*

WHERE{

?subclass rdfs:subClassOf dbo:Artist

}

**First 10 Results:**

|  |
| --- |
| **subclass** |
| <http://dbpedia.org/ontology/Actor> |
| <http://dbpedia.org/ontology/Comedian> |
| <http://dbpedia.org/ontology/ComicsCreator> |
| <http://dbpedia.org/ontology/Dancer> |
| <http://dbpedia.org/ontology/FashionDesigner> |
| <http://dbpedia.org/ontology/Humorist> |
| <http://dbpedia.org/ontology/MusicalArtist> |
| <http://dbpedia.org/ontology/Painter> |
| <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” (**[**http://dbpedia.org/resource/A\_Christmas\_Tale**](http://dbpedia.org/resource/A_Christmas_Tale) **) sorted in ascending order by name.**

**Hint: You can use lang(?yourNameVariable) to get the language.**

prefix dbp: <http://dbpedia.org/property/>

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

prefix dbr: <http://dbpedia.org/resource/>

SELECT ?actors

WHERE{

dbr:A\_Christmas\_Tale dbp:starring ?stars.

?stars rdfs:label ?name1;

rdf:type dbo:Actor

FILTER(langmatches(lang(?name1),"en"))

BIND(str(?name1) as ?actors)

}

ORDER BY ?actors

**First 10 Results:**

|  |
| --- |
| **actors** |
| Chiara Mastroianni |
| Melvil Poupaud |

**5. Get the English names and the birth dates of all Artist born before the year 1800 with “David” in their name, sorted in descending order of their birth date.**

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

prefix dbp: <http://dbpedia.org/property/>

PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>

SELECT ?actor\_name, ?birthDate

WHERE {

?artists rdf:type dbo:Artist;

rdfs:label ?name1;

dbo:birthDate ?birthDate1;

dbo:birthYear ?birthYear .

BIND(str(?birthDate1) as ?birthDate)

FILTER( langmatches(lang(?name1),"en"))

FILTER ( ?birthYear < "1800-01-01T00:00:00Z"^^xsd:dateTime )

FILTER ( ?birthYear > "0031"^^xsd:gYear )

BIND(str(?name1) as ?actor\_name)

FILTER ( regex(?actor\_name, "David", "i") )

}

ORDER BY desc(?birthDate)

**First 10 Results:**

|  |  |
| --- | --- |
| **actor\_name** | **birthDate** |
| David Claypoole Johnston | 1798-03-25 |
| David Roberts (painter) | 1796-10-24 |
| David Gee | 1793 |
| David Cox (artist) | 1783-04-29 |
| David Cusick | 1780 |
| David Edwin | 1776 |
| David Weller (painter) | 1759 |
| Jacques-Louis David | 1748-08-30 |
| François-Anne David | 1741 |
| David Martin (artist) | 1737-04-01 |

**6. Get the English names of all Artist that plays exactly 10 kinds of instruments, but does not play Guitar (**[**http://dbpedia.org/resource/Guitar**](http://dbpedia.org/resource/Guitar) **). Sort the results in ascending order of names.**

SELECT ?name

WHERE{

{

select ?name (COUNT(?instrument) as ?no\_of\_instruments)

WHERE{

?res dbo:instrument ?instrument;

rdfs:label ?name1

BIND(str(?name1) as ?name)

FILTER(langmatches(lang(?name1),"en"))

FILTER NOT EXISTS{?res dbo:instrument dbr:Guitar}

}

group by ?name

}

FILTER(?no\_of\_instruments = 10)

}

order by asc(?name)

**First 10 Results:**

|  |
| --- |
| **name** |
| Benson Taylor |
| Bernard Sumner |
| Big band |
| Big beat |
| Canadian blues |
| Cary Hudson |
| Celtic punk |
| Chris Leslie (folk musician) |
| Collin Leijenaar |
| Digital hardcore |

The following query 7\_a was used in combination of Query 3 for reference in order to compose Query7

7\_a) Query to fetch number of people who work for a profession

PREFIX dbp: <http://dbpedia.org/property/>

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

prefix dbr: <http://dbpedia.org/resource/>

SELECT \*

WHERE

{

{SELECT ?profession (COUNT(?people) as ?no\_of\_people)

WHERE{

?people dbp:occupation ?profession1;

dbo:occupation ?occupation.

?profession1 rdfs:label ?professionLabel

FILTER(langmatches(lang(?professionLabel),"en"))

BIND(str(?professionLabel) as ?profession)

}

group by ?profession

ORDER by desc(?no\_of\_people)

}

}

**First 10 Results:**

|  |  |
| --- | --- |
| **profession** | **no\_of\_people** |
| Actor | 35459 |
| Singing | 17996 |
| Songwriter | 12697 |
| Film director | 11782 |
| Record producer | 10785 |
| Musician | 9521 |
| Screenwriter | 9381 |
| Composer | 7425 |
| Film producer | 5535 |
| Journalist | 5488 |

**Query7: To fetch number of people who work for a profession, which are subclasses of Artist**

prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#>

prefix dbp: <http://dbpedia.org/property/>

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

prefix dbr: <http://dbpedia.org/resource/>

SELECT \* WHERE

{

{

SELECT ?profession (COUNT(?people) as ?no\_of\_people)

WHERE{

?people dbp:occupation ?profession1;

dbo:occupation ?occupation.

?profession1 rdfs:label ?professionLabel

FILTER(langmatches(lang(?professionLabel),"en"))

BIND(str(?professionLabel) as ?profession)

}

group by ?profession

ORDER by desc(?no\_of\_people)

}

FILTER (?profession in ("Actor", "Comedian", "Comics artist", "Dance", "Fashion", "List of humorists", "Painting" , "Photograph", "Sculpture"))

}

**First 10 Results:**

|  |  |
| --- | --- |
| **profession** | **no\_of\_people** |
| Actor | 35459 |
| Dance | 2201 |
| Comedian | 1949 |
| Painting | 793 |
| Sculpture | 257 |
| List of humorists | 100 |
| Comics artist | 20 |
| Fashion | 14 |
| Photograph | 3 |