

SPARQL Queries

(We uploaded .rdf file in GraphDB to run queries)

1) Number of followers in order on Twitter

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

PREFIX Tw: <file:/C:/Users/isila/Desktop/final-ttls/Tw#>

SELECT ?name ?followers

WHERE {

 ?s Tw:name ?name .

 ?s Tw:followers ?followers .

} ORDER BY DESC(xsd:integer(?followers)) LIMIT 50

	name	followers
1	"Justin Bieber"	"114357427"
2	"Katy Perry"	"108900656"
3	"Rihanna"	"106201663"
4	"Cristiano Ronaldo"	"99274403"
5	"Taylor Swift"	"90373941"
6	"The Countess"	"84576292"
7	"Elon Musk"	"82898543"
8	"Ellen DeGeneres"	"77595645"
9	"Kim Kardashian"	"72170641"
10	"Selena Gomez"	"65791273"
11	"Justin Timberlake"	"63231222"
12	"Bill Gates"	"58128522"
13	"Neymar"	"56508547"
14	"Britney Spears"	"55863848"

2) Grammy winning songs from 2017 and 2019

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

PREFIX Gm: <file:/C:/Users/isila/Desktop/final-ttls/Gm#>

select ?songname ?artists

where {

 ?s Gm:songname ?songname;

 Gm:year ?year;

 Gm:artists ?artists;

 Gm:winner ?winner .

 FILTER((?year="2017" || ?year="2019") && ?winner="true"^^xsd:gYear)

}

	songname	artists
1	"That's What I Like"	"Christopher Brody Brown, James Fauntleroy, Philip Lawrence, Bruno Mars, Ray Charles McCullough II, Jeremy Reeves, Ray Romulus , Jonathan Yip"
2	"Bad Guy"	"Billie Eilish O'Connell , Finneas O'Connell"

3) Rank in terms of max number of followers on Instagram

PREFIX Ig: <file:/C:/Users/isila/Desktop/final-ttls/Ig#>

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

select DISTINCT ?owner ?rank ?followers ?profession

where {
 ?s Ig:owner ?owner;
 Ig:rank ?rank;
 Ig:folllowers ?f;
 Ig:hasprofession ?profession .
 BIND(CONCAT(STR(?f), " M") AS ?followers) .
} ORDER BY(xsd:integer(?rank))

	owner	rank	followers	profession
1	"Ig"	"1"	"515.0 M"	Ig.Socialmedia
2	"Cristiano Ronaldo"	"2"	"450.0 M"	Ig.Footballer
3	"Kylie Jenner"	"3"	"344.0 M"	Ig.TVpersonality
4	"Kylie Jenner"	"3"	"344.0 M"	Ig.Model
5	"Kylie Jenner"	"3"	"344.0 M"	Ig.Businesswoman
6	"Lionel Messi"	"4"	"333.0 M"	Ig.Footballer
7	"Selena Gomez"	"5"	"324.0 M"	Ig.Actress
8	"Selena Gomez"	"5"	"324.0 M"	Ig.Musician
9	"Selena Gomez"	"5"	"324.0 M"	Ig.Businesswoman
10	"Selena Gomez"	"5"	"324.0 M"	Ig.Producer
11	"Dwayne Johnson"	"6"	"320.0 M"	Ig.Actor
12	"Dwayne Johnson"	"6"	"320.0 M"	Ig.Wrestler
13	"Kim Kardashian"	"7"	"316.0 M"	Ig.TVpersonality
14	"Kim Kardashian"	"7"	"316.0 M"	Ig.Model

4) List of categories of Youtube channels by order

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

PREFIX : <http://www.semanticweb.org/isila/ontologies/2022/10/untitled-ontology-26#>

PREFIX Yt: <file:/C:/Users/isila/Desktop/final-ttls/Yt#>

select ?category ?channelName ?followers

where {
 ?s Yt:category ?category;
 Yt:channelName ?channelName;

```
Yt:followers ?followers .
FILTER(?category= "Music" || ?category="Hip hop music")
} ORDER BY(?channelName)
```

	category	channelName	follow
1	"Music"	"Alan Walker"	"42000000"
2	"Music"	"BLACKPINK"	"75100000"
3	"Music"	"Bad Bunny"	"41600000"
4	"Music"	"Beyonc"	"24700000"
5	"Music"	"Billie Eilish"	"45900000"
6	"Music"	"Canal KondZilla"	"65800000"
7	"Music"	"Carry Minati"	"36000000"
8	"Hip hop music"	"Ed Sheeran"	"52100000"
9	"Hip hop music"	"EminemMusic"	"52600000"
10	"Music"	"J Balvin"	"33500000"
11	"Music"	"Justin Bieber"	"69400000"
12	"Music"	"Karolgmusic"	"27100000"
13	"Music"	"Katy Perry"	"43000000"
14	"Hip hop music"	"Maluma"	"28600000"
15	"Music"	"Maroon 5"	"35700000"

5) Most high ranked Actor/Actress on Instagram

```
PREFIX Cb: <file:/C:/Users/isila/Desktop/final-ttls/Cb#>
PREFIX : <http://www.semanticweb.org/isila/ontologies/2022/10/untitled-ontology-26#>
PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>
PREFIX Ig: <file:/C:/Users/isila/Desktop/final-ttls/Ig#>
```

```
select ?name ?social ?rank ?profession
```

```
where {
```

```
    ?s Cb:username ?name .
    ?s :isOn ?social .
    ?social Ig:rank ?rank .
    ?social Ig:hasprofession ?profession .
    FILTER REGEX(str(?social), "Ig")
    FILTER REGEX(str(?profession), "Act")
```

```
}
```

	name	social	rank	profession
1	"@arianagrande"	Ig:ID1522	"8"	Ig:Actress
2	"@beyonce"	Ig:ID1523	"9"	Ig:Actress
3	"@iamcardib"	Ig:ID1525 Tw:Tw	"26"	Ig:Actor
4	"@gal_gadot"	Ig:ID1535	"37"	Ig:Actress
5	"@jlo"	Ig:ID1538	"16"	Ig:Actress
6	"@kevinhart4real"	Ig:ID1542	"23"	Ig:Actor
7	"@mileycyrus"	Ig:ID1552	"21"	Ig:Actress
8	"@priyankachopra"	http://sweet.jpl.nasa.gov/2.3/humanJurisdiction.owl#Country Ig:ID1559	"39"	Ig:Actress
9	"@selenagomez"	Ig:ID1562	"5"	Ig:Actress
10	"@vindiesel"	Ig:ID1569	"38"	Ig:Actor
11	"@zendaya"	Ig:ID1571	"24"	Ig:Actress

6) Number of professions listed for top celebrities on Instagram

PREFIX Ig: <file:/C:/Users/isila/Desktop/final-ttls/Ig#>

```
select ?name (COUNT(?profession) As ?NumProfession)
where{
```

```
  ?s Ig:hasprofession ?profession;
  Ig:owner ?name
```

```
} GROUP BY (?name)
```

	name	NumProfession
1	"Ariana Grande"	"2"^^xsd:integer
2	"Beyoncé Knowles"	"3"^^xsd:integer
3	"Billie Eilish"	"1"^^xsd:integer
4	"Cardi B"	"2"^^xsd:integer
5	"Chris Brown"	"1"^^xsd:integer
6	"Cristiano Ronaldo"	"1"^^xsd:integer
7	"David Beckham"	"1"^^xsd:integer
8	"Drake"	"1"^^xsd:integer
9	"Dua Lipa"	"1"^^xsd:integer
10	"Ellen DeGeneres"	"2"^^xsd:integer
11	"FC Barcelona"	"1"^^xsd:integer
12	"Gal Gadot"	"1"^^xsd:integer
13	"Gigi Hadid"	"1"^^xsd:integer
14	"Jennifer Lopez"	"2"^^xsd:integer
15	"Justin Bieber"	"1"^^xsd:integer

7) Grammy award winner from 2010 to 2020

PREFIX : <http://www.semanticweb.org/isila/ontologies/2022/10/untitled-ontology-26#>

PREFIX Gm: <file:/C:/Users/isila/Desktop/final-ttls/Gm#>

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

select ?name ?grammy ?winner ?year ?songname

where{

?name :isOn ?grammy .

FILTER REGEX(str(?grammy), "Gm")

?grammy Gm:songname ?songname .

?grammy Gm:winner ?winner .

?grammy Gm:year ?year .

FILTER((?year>"2010" && ?year<"2020") && (?winner="true"^^xsd:gYear))

}

	name	grammy	winner	year	songname
1	Cb.AustinMahone	Gm.ID0065	*true**xsd:gYear	"2011"	"Need You Now"
2	Cb.BIRDMAN	Gm.ID0089	*true**xsd:gYear	"2017"	"That's What I Like"
3	Cb.BelalFadi	Gm.ID0074	*true**xsd:gYear	"2012"	"Rolling In The Deep"
4	Cb.BillMaher	Gm.ID0085	*true**xsd:gYear	"2015"	"Stay With Me"
5	Cb.BradPaisley	Gm.ID0098	*true**xsd:gYear	"2018"	"This Is America"

8) Maximum number of views for distinct categories on Youtube

PREFIX Yt: <file:/C:/Users/isila/Desktop/final-ttls/Yt#>

select DISTINCT ?category (MAX(?views) AS ?maxviews)

where{

?s Yt:channelname ?channelname;

Yt:category ?category;

Yt:likes ?likes;

Yt:views ?views .

} GROUP BY ?category

	category	maxviews
1	"Music"	"36796548363.0"
2	"Role-playing video game"	"3046560972.0"
3	"Electronic music"	"18863047171.0"
4	"Lifestyle"	"9969944772.0"
5	"Movies"	"9948293859.0"
6	"Action-adventure game"	"2617970693.0"
7	"Entertainment"	"9944185112.0"
8	"Action game"	"9934602477.0"
9	"Rhythm and blues"	"17967902245.0"
10	"Hip hop music"	"9632080442.0"
11	"Rock music"	"18613137086.0"
12	"TV shows"	"9854766293.0"
13	"Music of Asia" Tw:Tw	"28692968075.0"
14	"Music of Latin America"	"23660684066.0"

9) RDF graph data on the selected celebrity

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

PREFIX Tw: <file:/C:/Users/isila/Desktop/final-ttls/Tw#>

PREFIX Cb: <file:/C:/Users/isila/Desktop/final-ttls/Cb#>

PREFIX : <http://www.semanticweb.org/isila/ontologies/2022/10/untitled-ontology-26#>

```

CONSTRUCT{
  ?data rdf:type Tw:Tw .
  ?data Tw:username ?name .
  ?data Tw:followers ?followers .
  ?celeb :isOn ?data
}
WHERE {
  ?data Tw:username ?name .
  ?data Tw:followers ?followers .
  ?celeb :isOn ?data .
  ?celeb Cb:username "Akon" .
}

```

	subject	predicate	object
1	Tw:ID0008	http://sweet.jpl.nasa.gov/2.3/humanJurisdiction.owl#Country rdf:type	Tw:Tw
2	Tw:ID0008	Tw:username	"Akon"
3	Tw:ID0008	Tw:followers	"6193666"
4	Cb:AKON	:isOn	Tw:ID0008

10) Singer as his/her country of birth

PREFIX Sg: <file:/C:/Users/isila/Desktop/final-ttls/Sg#>

select ?singer ?country

where {

 ?singer Sg:hasCountry ?country .

 FILTER(str(?country)="http://eulersharp.sourceforge.net/2003/03swap/countries#us")

}

	singer	country
1	Sg:ArianaGrande	http://eulersharp.sourceforge.net/2003/03swap/countries#us
2	Sg:BeyonceKnowles	http://eulersharp.sourceforge.net/2003/03swap/countries#us
3	Sg:BillieEilish	http://eulersharp.sourceforge.net/2003/03swap/countries#us
4	Sg:BrunoMars	http://eulersharp.sourceforge.net/2003/03swap/countries#us
5	Sg:CardiB	http://eulersharp.sourceforge.net/2003/03swap/countries#us
6	Sg:ChrisBrown	http://eulersharp.sourceforge.net/2003/03swap/countries#us
7	Sg:DaddyYankee	http://eulersharp.sourceforge.net/2003/03swap/countries#us
8	Sg:DavidGuetta	http://eulersharp.sourceforge.net/2003/03swap/countries#us
9	Sg:DemiLovato	http://eulersharp.sourceforge.net/2003/03swap/countries#us
10	Sg:EminemMusic	http://eulersharp.sourceforge.net/2003/03swap/countries#us