04 - Assignment Knowledge Representation (Group 5)
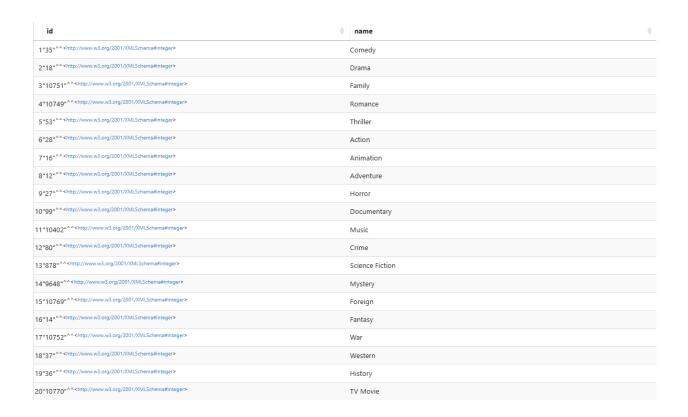
SPARQL Queries

a. Which genres exists

```
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX : <https://www.themoviedb.org/kaggle-export/>
PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>

SELECT ?id ?name
WHERE {
    ?genre a :Genre ;
              :id ?id ;
              :name ?name .
}
```

id	name
1"35"^^<http://www.w3.org/2001/XMLSchema#integer>	Comedy
2"18"^^<http://www.w3.org/2001/XMLSchema#integer>	Drama
3"10751"^^<http://www.w3.org/2001/XMLSchema#integer>	Family
4"10749"^^<http://www.w3.org/2001/XMLSchema#integer>	Romance
5"53"^^<http://www.w3.org/2001/XMLSchema#integer>	Thriller
6"28"^^<http://www.w3.org/2001/XMLSchema#integer>	Action
7"16"^^<http://www.w3.org/2001/XMLSchema#integer>	Animation
8"12"^^<http://www.w3.org/2001/XMLSchema#integer>	Adventure
9"27"^^<http://www.w3.org/2001/XMLSchema#integer>	Horror
10"99"^^<http://www.w3.org/2001/XMLSchema#integer>	Documentary
11"10402"^^<http://www.w3.org/2001/XMLSchema#integer>	Music
12"80"^^<http://www.w3.org/2001/XMLSchema#integer>	Crime
13"878"^^<http://www.w3.org/2001/XMLSchema#integer>	Science Fiction
14"9648"^^<http://www.w3.org/2001/XMLSchema#integer>	Mystery
15"10769"^^<http://www.w3.org/2001/XMLSchema#integer>	Foreign
16"14"^^<http://www.w3.org/2001/XMLSchema#integer>	Fantasy
17"10752"^^<http://www.w3.org/2001/XMLSchema#integer>	War
18"37"^^<http://www.w3.org/2001/XMLSchema#integer>	Western
19"36"^^<http://www.w3.org/2001/XMLSchema#integer>	History
20"10770"^^<http://www.w3.org/2001/XMLSchema#integer>	TV Movie

b. Which departments exist for crews?

```
SELECT DISTINCT ?department
WHERE {
    ?Crew a :Crew;
    :department ?department .
}
```

department
1Production
2Visual Effects
3Editing
4Crew
5Sound
6Art
7Writing
8Lighting
9Camera
10Costume & Make-Up
11Directing
12Actors

Showing 1 to 12 of 12 entries

c. How many companies are listed?
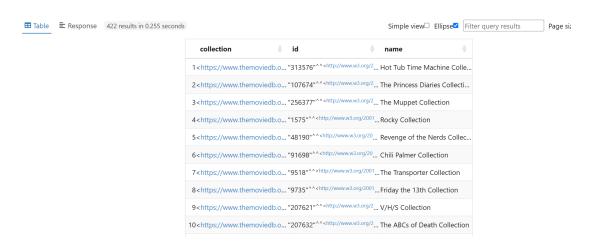
```
SELECT (COUNT(DISTINCT ?company) AS ?companyCount)
WHERE {
  ?company a :Company;
}
```

companyCount

1"3712"^^<http://www.w3.org/2001/XMLSchema#integer>
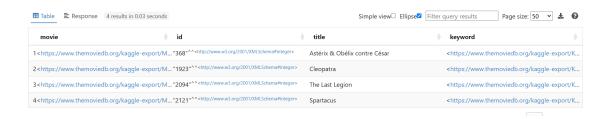
Showing 1 to 1 of 1 entry

d. Show all collections

```
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX : <https://www.themoviedb.org/kaggle-export/>
PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>

SELECT *
WHERE {
    ?collection a :Collection ;
                :id ?id ;
                :name ?name .
}
```
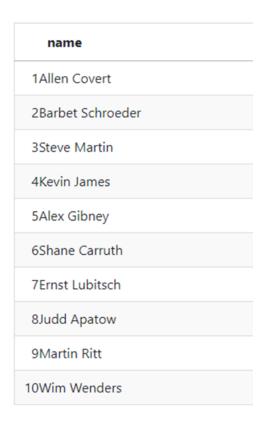
| | Table | Response | 422 results in 0.255 seconds | | Simple view☐ Ellipse☑ | Filter query results | Page siz |

	collection	id	name
1	<https://www.themoviedb.o...	"313576"^^<http://www.w3.org/2...	... Hot Tub Time Machine Colle...
2	<https://www.themoviedb.o...	"107674"^^<http://www.w3.org/2...	... The Princess Diaries Collecti...
3	<https://www.themoviedb.o...	"256377"^^<http://www.w3.org/2...	... The Muppet Collection
4	<https://www.themoviedb.o...	"1575"^^<http://www.w3.org/2001...	...Rocky Collection
5	<https://www.themoviedb.o...	"48190"^^<http://www.w3.org/20...	... Revenge of the Nerds Collec...
6	<https://www.themoviedb.o...	"91698"^^<http://www.w3.org/20...	... Chili Palmer Collection
7	<https://www.themoviedb.o...	"9518"^^<http://www.w3.org/2001...	...The Transporter Collection
8	<https://www.themoviedb.o...	"9735"^^<http://www.w3.org/2001...	...Friday the 13th Collection
9	<https://www.themoviedb.o...	"207621"^^<http://www.w3.org/2...	... V/H/S Collection
10	<https://www.themoviedb.o...	"207632"^^<http://www.w3.org/2...	... The ABCs of Death Collection

e. List German movies

```
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX : <https://www.themoviedb.org/kaggle-export/>
PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>

SELECT *
WHERE {
    ?movie a :Movie ;
              :id ?id ;
              :original_title ?title ;
              :original_language "de" .
}
```
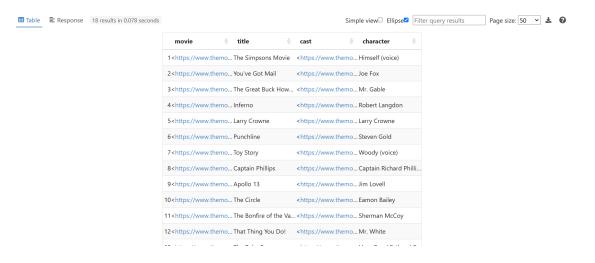
	movie	id	title
1	<https://www.themoviedb.or...	"248"^^<http://www.w3.org/2001/X...	Der Untergang
2	<https://www.themoviedb.or...	"727"^^<http://www.w3.org/2001/X...	Barbara
3	<https://www.themoviedb.or...	"763"^^<http://www.w3.org/2001/X...	Das Leben der Anderen
4	<https://www.themoviedb.or...	"872"^^<http://www.w3.org/2001/X...	Zweiohrküken
5	<https://www.themoviedb.or...	"961"^^<http://www.w3.org/2001/X...	Fack ju Göhte 2
6	<https://www.themoviedb.or...	"1105"^^<http://www.w3.org/2001...	Robinson Crusoe
7	<https://www.themoviedb.or...	"1132"^^<http://www.w3.org/2001...	Toni Erdmann
8	<https://www.themoviedb.or...	"1186"^^<http://www.w3.org/2001...	In weiter Ferne, so nah!
9	<https://www.themoviedb.or...	"1277"^^<http://www.w3.org/2001...	Der rote Baron
10	<https://www.themoviedb.or...	"1380"^^<http://www.w3.org/2001...	Auf der anderen Seite
11	<https://www.themoviedb.or...	"2026"^^<http://www.w3.org/2001...	Er ist wieder da

Table   Response   18 results in 0.045 seconds   Simple view☐ Ellipse☑ Filter query results   Page s

f. Show movies in which Julius Caesar is depicted

```
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX : <https://www.themoviedb.org/kaggle-export/>
PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>

SELECT *
WHERE {
    ?movie a :Movie ;
```

```
                    :id ?id ;
                    :original_title ?title ;
                    :Keywords ?keyword .
        ?keyword :id 194576 .
}
```

	movie	id	title	keyword
1	<https://www.themoviedb.org/kaggle-export/M...	"368"^^<http://www.w3.org/2001/XMLSchema#integer>	Astérix & Obélix contre César	<https://www.themoviedb.org/kaggle-export/K...
2	<https://www.themoviedb.org/kaggle-export/M...	"1923"^^<http://www.w3.org/2001/XMLSchema#integer>	Cleopatra	<https://www.themoviedb.org/kaggle-export/K...
3	<https://www.themoviedb.org/kaggle-export/M...	"2094"^^<http://www.w3.org/2001/XMLSchema#integer>	The Last Legion	<https://www.themoviedb.org/kaggle-export/K...
4	<https://www.themoviedb.org/kaggle-export/M...	"2121"^^<http://www.w3.org/2001/XMLSchema#integer>	Spartacus	<https://www.themoviedb.org/kaggle-export/K...

Table | Response | 4 results in 0.03 seconds · Simple view☐ Ellipse☑ Filter query results · Page size: 50

g. Which movie actors also directed a movie?

```
SELECT DISTINCT ?name
WHERE {
  ?person :job "Producer" ;
          :name ?name ;
          rdf:type :Crew .
  ?cast :name ?name ;
        rdf:type :Cast .
}
```

name
1 Allen Covert
2 Barbet Schroeder
3 Steve Martin
4 Kevin James
5 Alex Gibney
6 Shane Carruth
7 Ernst Lubitsch
8 Judd Apatow
9 Martin Ritt
10 Wim Wenders

Showing 1 to 10 of 426 entries

h. All roles of your favorite actor

```
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX : <https://www.themoviedb.org/kaggle-export/>
PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>

SELECT *
WHERE {
    ?movie a :Movie ;
                :original_title ?title ;
                :cast ?cast .
    ?cast :name "Tom Hanks" ;
          :character ?character
}
```

i. All details about your favourite movie

```
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX : <https://www.themoviedb.org/kaggle-export/>
PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>

SELECT *
WHERE {
    ?movie a :Movie ;
            :id ?id ;
            :budget ?budget ;
            :genres ?genres ;
            :original_language ?original_language ;
            :original_title "Whiplash" ;
            :overview ?overview ;
            :release_date ?release_date ;
            :runtime ?runtime ;
            :revenue ?revenue .
}
```