

SBC

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Parte 1: Realizar 3 consultas

Consulta 1

The screenshot shows the GraphDB SPARQL Query & Update interface. The left sidebar contains navigation options: Import, Explore, SPARQL (selected), Monitor, Setup, and Help. The main area displays a SPARQL query with the following content:

```
1 PREFIX onto: <http://www.ontotext.com/>
2 PREFIX dct: <http://purl.org/dc/terms/>
3 PREFIX dbr: <http://dbpedia.org/resource/>
4 PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
5 select DISTINCT * WHERE {
6   ?Recursos dct:language ?Lenguaje;
7             dct:title ?titulo
8 }
```

Below the query editor is a red "Run" button. To the right of the query editor are icons for saving, opening, linking, and other actions. The right sidebar shows the query results in a table format. The table has columns: Recursos, Lenguaje, and titulo. The results are as follows:

	Recursos	Lenguaje	titulo
1	http://localhost:8000/resource/2-s2.0-8508575209	dbr:English	"Self-collected upper respiratory tract swabs for COVID-19 test: A feasible way to increase overall testing rate and conserve resources in South Africa"
2	http://localhost:8000/resource/2-s2.0-85084962220	dbr:English	"18F-FDG PET/CT findings of COVID-19: a series of four highly suspected cases"
3	http://localhost:8000/resource/2-s2.0-85085751032	dbr:English	"2019 novel coronavirus (2019-nCoV) outbreak: A new challenge"
4	http://localhost:8000/resource/2-s2.0-85084188186	dbr:Korean	"2019 novel coronavirus disease outbreak and molecular genetic characteristics of severe acute respiratory syndrome-coronavirus-2"

At the bottom right of the table, there is a link to "keyboard shortcuts".

Consulta 2

GraphDB

Import

Explore

SPARQL

Monitor

Setup

Help

SPARQL Query & Update

J:1:Person x fabio:Article x title and Lenguaje x

articulos por autores x Unnamed x

```
1 # ¿Cuales son los nombres de las publicaciones que
2 se realizaron en el año x?
3
4 PREFIX onto: <http://www.ontotext.com/>
5 PREFIX dct: <http://purl.org/dc/terms/>
6 PREFIX dbr: <http://dbpedia.org/resource/>
7 PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-
8 syntax-ns#>
9
10 select DISTINCT * WHERE {
11   VALUES ?date {"2020"} .
12   ?Recursos dct:title ?titulo .
13   ?Recursos dct:date ?date .
14   FILTER CONTAINS (?date, ?date)
15 }
```

Run

Editor only Editor and results Results only

Table Raw Response Pivot Table Google Chart

Download as

Filter query results 1 results from 1 to 1,000 of 2,000. Query took 0.1s, minutes ago.

	date	Recursos	titulo
1	"2020"	http://localhost:8000/resource/2-s2.0-85084963531	"Computed tomography (CT) utility for diagnosis and triage during COVID-19 pandemic [Utilité du CT-scan thoracique pour le diagnostic et le triage des patients suspects de COVID-19]"
2	"2020"	http://localhost:8000/resource/2-s2.0-85084115153	"COVID-19 spike-host cell receptor GRP78 binding site prediction"
3	"2020"	http://localhost:8000/resource/2-s2.0-85086041698	"Implications of COVID-19 Outbreak on Immune Therapies in Multiple Sclerosis Patients Lessons Learned From SARS and MERS"
4	"2020"	http://localhost:8000/resource/2-s2.0-85086372961	"SARS-CoV-2 and COVID-19: A genetic epidemiological and evolutionary analysis"

Consulta 3

The screenshot shows the GraphDB SPARQL Query & Update interface. The left sidebar contains navigation options: Import, Explore, SPARQL (selected), Monitor, Setup, and Help. The main area is titled "SPARQL Query & Update" and includes tabs for "Editor only", "Editor and results" (selected), and "Results only". Below these are tabs for "Table", "Raw Response", "Pivot Table", and "Google Chart". A "Download as" button is also present. The query editor shows a SPARQL query in Spanish, and the results table displays 6 rows of data.

SPARQL Query & Update

Editor only Editor and results Results only

Table Raw Response Pivot Table Google Chart

Filter query results Results from 1 to 1,000 of 1,257. Query took 0.2s, moments ago.

articles por autores Unnamed

```
1 # ¿Cuáles son los nombres de las publicaciones que
2 son de "x" tipo documento?
3
4 PREFIX onto: <http://www.ontotext.com/>
5 PREFIX fabio: <http://purl.org/spar/fabio/>
6 PREFIX dbr: <http://dbpedia.org/resource/>
7 PREFIX dct: <http://purl.org/dc/terms/>
8 PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-
9 syntax-ns#>
10 select DISTINCT * WHERE {
11   ?Recursos dct:title ?titulo .
12   ?Recursos rdf:type fabio:Article .
13 }
```

Run

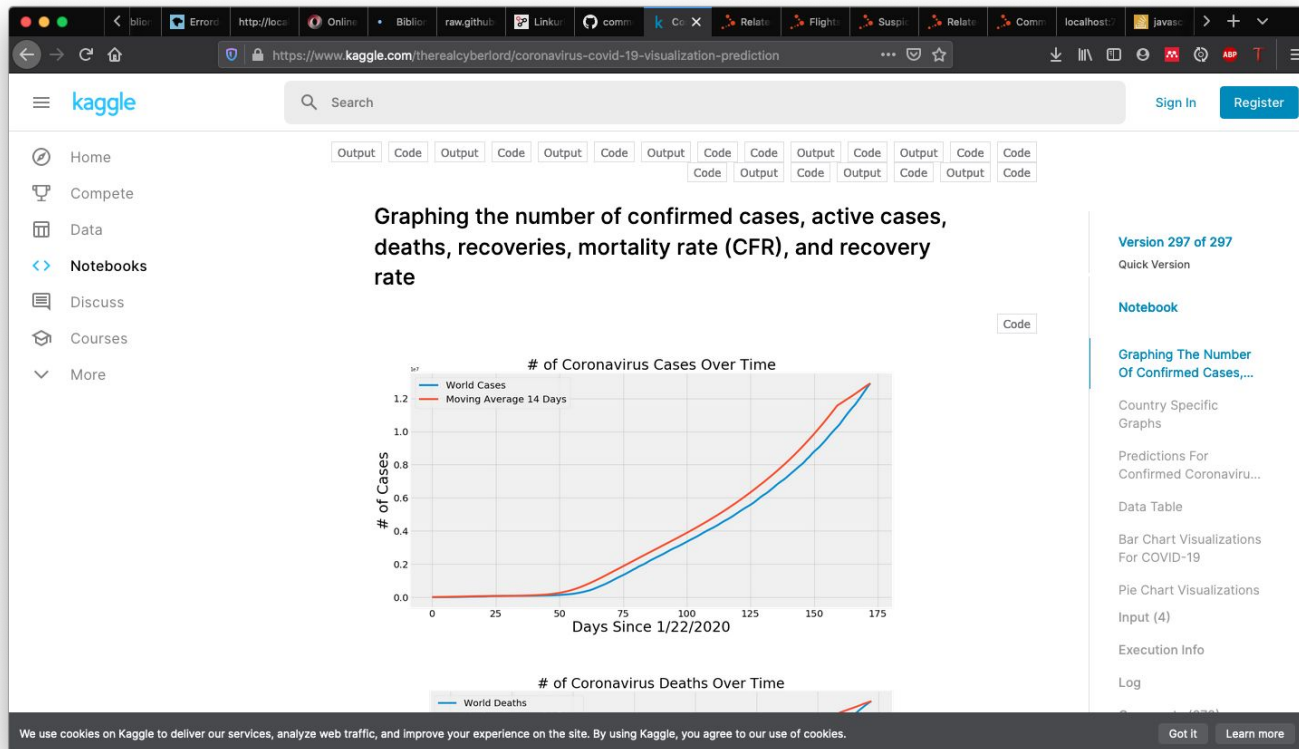
Press Alt+Enter to autocomplete

	Recursos	titulo
1	http://localhost:8000/resource/2-s2.0-85085757209	"Self-collected upper respiratory tract swabs for COVID-19 test": A feasible way to increase overall testing rate and conserve resources in South Africa"
2	http://localhost:8000/resource/2-s2.0-85084962220	"18F-FDG PET/CT findings of COVID-19: a series of four highly suspected cases"
3	http://localhost:8000/resource/2-s2.0-85085751032	"2019 novel coronavirus (2019-nCoV) outbreak: A new challenge"
4	http://localhost:8000/resource/2-s2.0-85083156549	"25-hydroxyvitamin D concentrations are lower in patients with positive PCR for SARS-CoV-2"
5	http://localhost:8000/resource/2-s2.0-85085873139	"30-day mortality in patients hospitalized with COVID-19 during the first wave of the Italian epidemic: A prospective cohort study"
6	http://localhost:8000/resource/2-s2.0-85085612326	"5-Fluorouracil in combination with deoxyribonucleosides and deoxyribose"

keyboard shortcuts

Parte 2: Revisar trabajos relacionados

Ejemplo de trabajos



Ejemplo de trabajos



Parte 3: Prototipo de la aplicación a desarrollar

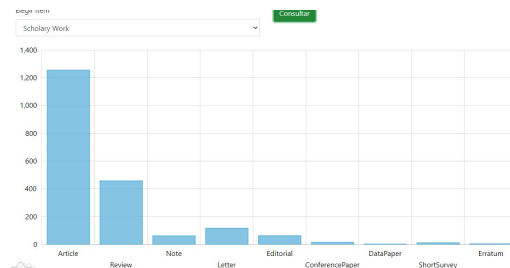
Arquitectura de la Propuesta

Repositorio RDF

Aplicación web



Consultas Spark



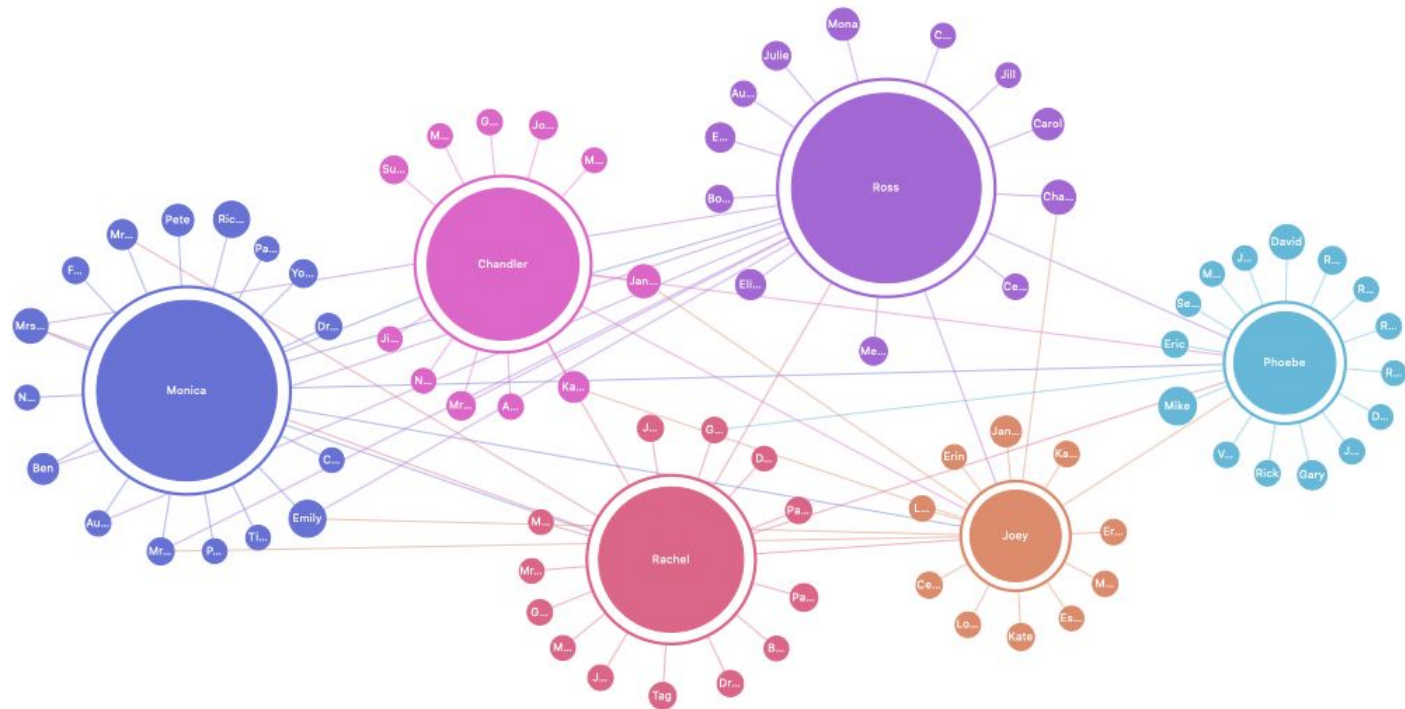
```
← → ① localhost:8080/api/q2
1 // 20200717094456
2 // http://localhost:8080/api/q2
3
4 {
5   {
6     "tipo": "http://purl.org/sem/fabio/article",
7     "cantidad": "125"
8   },
9   {
10    "tipo": "http://purl.org/sem/fabio/review",
11    "cantidad": "459"
12  },
13  {
14    "tipo": "http://utol.edu.ec/COVID0813/ontology/note",
15    "cantidad": "63"
16  },
17 }
```



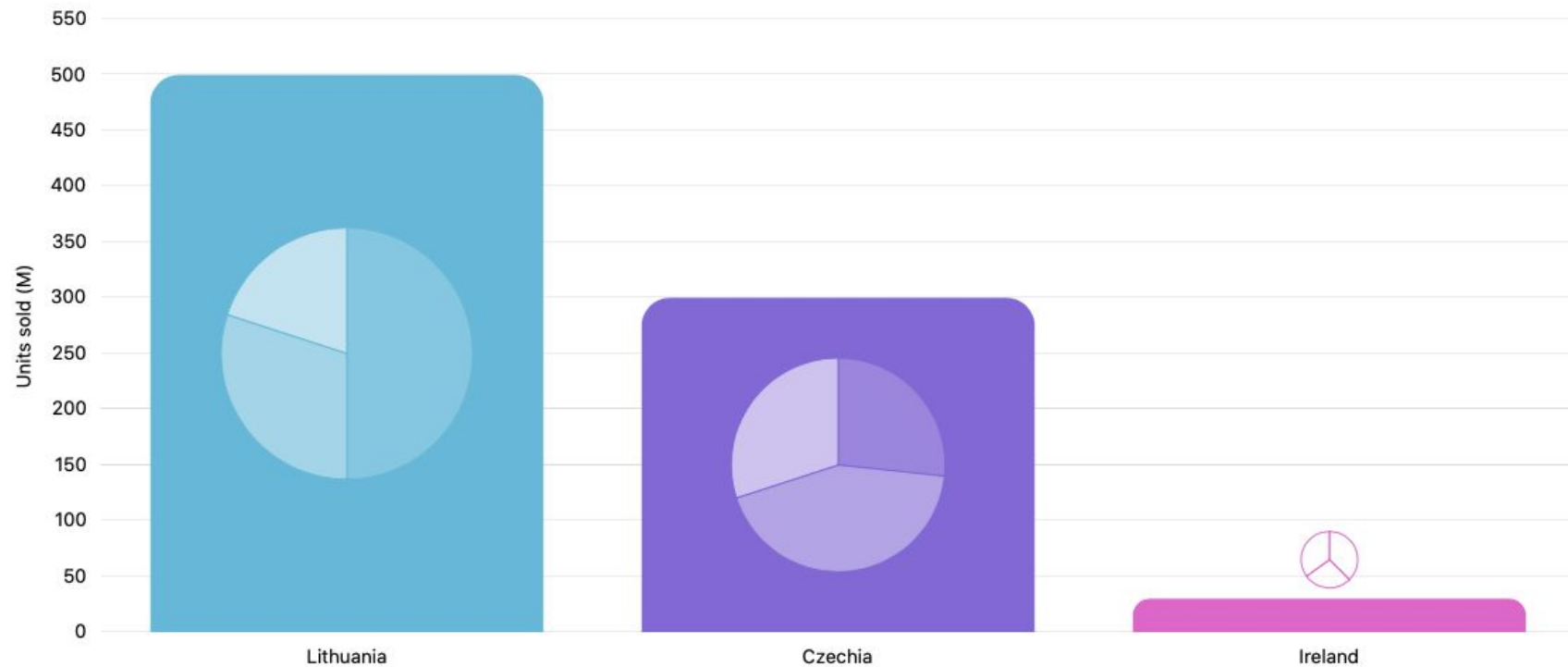
Clientes



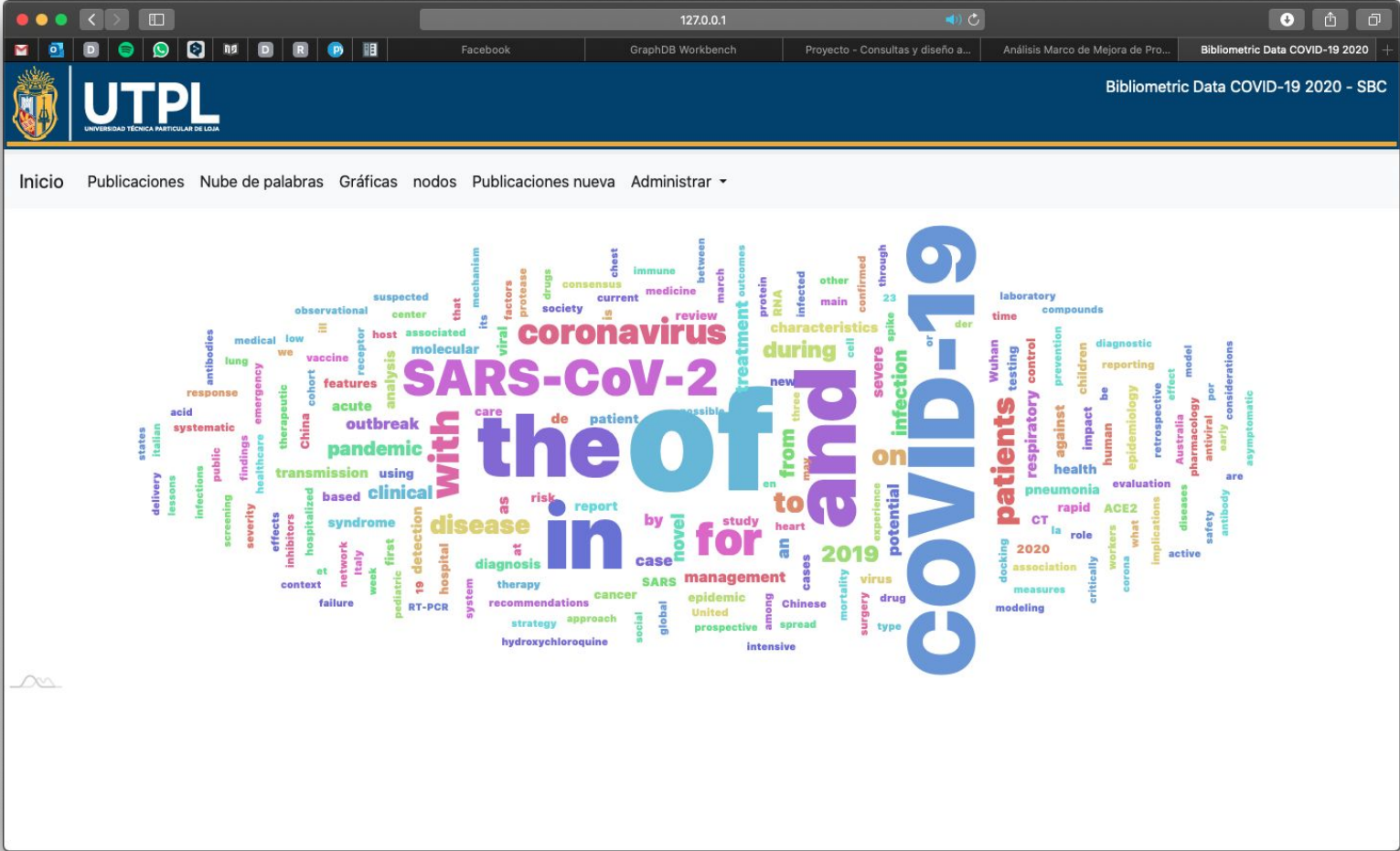
Posibles gráficas



Posibles gráficas



Diseño de sitio



**Gracias por su
atención**