

**ESCUELA POLITECNICA NACIONAL**  
**ESFOT**  
**BASES DE DATOS MULTIDIMENSIONALES**

**Pruerba 2B**

**Nombre:** Gabriel Ibujés

Tweets Geolocalizados en New York

Ewyork (bd1)

Script de Geolocalización:

```
1
2 import couchdb
3 from tweepy import Stream
4 from tweepy import OAuthHandler
5 from tweepy.streaming import StreamListener
6 import json
7
8
9 #####
10 ckey = "6Zyv4XcVyp0qH0pFolHwSTrMzX"
11 csecret = "3J5TpltHtEzGEw8RRLABc3KQ2Quhjj2SVVykfw5zs02fjtpC"
12 atoken = "153168970-C8H0nPCjztDmLQMrjtgOYSPiZjLMyegtrAZQQrq"
13 asecret = "WxWpMOMlghN1tVYZRFugRWtefM1SShLWVI4lL4oPNTA10"
14 #####
15
16 class listener(StreamListener):
17
18     def on_data(self, data):
19         dictTweet = json.loads(data)
20         try:
21
22             dictTweet["_id"] = str(dictTweet['id'])
23             doc = db.save(dictTweet)
24             print ("SAVED" + str(doc) + "=>" + str(data))
25         except:
26             print ("Already exists")
27             pass
28         return True
29
30     def on_error(self, status):
31         print (status)
32
33 auth = OAuthHandler(ckey, csecret)
```

```

dictTweet['_id'] = str(dictTweet['_id'])
doc = db.save(dictTweet)
print ("SAVED" + str(doc) + ">" + str(data))
except:
    print ("Already exists")
    pass
return True

def on_error(self, status):
    print (status)

auth = OAuthHandler(ckey, csecret)
auth.set_access_token(accessToken, asecret)
twitterStream = Stream(auth, listener())

'''=====couchdb====='''
server = couchdb.Server('http://admin:admin@localhost:5984/') #('http://115.146.93.184:5984/')
try:
    db = server.create('newyork')
except:
    db = server['newyork']

'''=====LOCATIONS====='''

twitterStream.filter(locations=[-74.25909,40.477399,-73.700181,40.916178])
#twitterStream.filter(track=['newyork'])

```

```

C:\WINDOWS\system32>cd C:\Users\Daniela\Documents\Gabo\QUINTO SEMESTRE GABO\BASES DE DATOS MULTIDIMENSIONALES
C:\Users\Daniela\Documents\Gabo\QUINTO SEMESTRE GABO\BASES DE DATOS MULTIDIMENSIONALES>python tweets_newyork.py
SAVED('1295852438545629184', '1-d68b6c7fdda7ac3a338cc25ee00342f6')=>{"created_at": "Tue Aug 18 22:37:51 +0000 2020", "id":
295852438545629184, "id_str": "1295852438545629184", "text": "@JoeBiden Biden why don't you say a dam thing about all these
democrats run states like Portland NewYork the riots\u2026 https://t.co/VZC9WfbCtoA", "display_text_range": [10,140], "
source": "\u0003ca href=\u201chttps://mobile.twitter.com\u201c rel=\u201cnofollow\u201c\u0003eTwitter Web App\u0003c/\u0003e", "truncated":
true, "in_reply_to_status_id": 1295828315056623616, "in_reply_to_status_id_str": "1295828315056623616", "in_reply_to_user_id
939091, "in_reply_to_user_id_str": "939091", "in_reply_to_screen_name": "JoeBiden", "user": {"id": 828734145245351937, "id_str":
828734145245351937, "name": "Sparty Fan", "screen_name": "FaniSparty", "location": "Michigan ", "url": null, "description": nu
l, "translator_type": "none", "protected": false, "verified": false, "followers_count": 261, "friends_count": 570, "listed count":
"favorites_count": 33171, "statuses_count": 1636, "created_at": "Mon Feb 06 22:36:32 +0000 2017", "utc_offset": null, "time z
e": null, "geo_enabled": false, "lang": null, "contributors_enabled": false, "is_translator": false, "profile_background_color":
5F8FA", "profile_background_image_url": "", "profile_background_image_url_https": "", "profile_background_tile": false, "prof
e link_color": "1DA1F2", "profile_sidebar_border_color": "C0DEED", "profile_sidebar_fill_color": "DDEEFF", "profile text col
": "333333", "profile_use_background_image": true, "profile_image_url": "http://pbs.twimg.com/profile_images/1045894689
3007616/uLJICcJ7_normal.jpg", "profile_image_url_https": "https://pbs.twimg.com/profile_images/10458946893007616/uLJICcJ7_normal.jpg", "profile_banner_url": "https://pbs.twimg.com/profile_banners/828734145245351937/1538195722", "d
ault_profile": true, "default_profile_image": false, "following": null, "follow_request_sent": null, "notifications": null}, "ge
: null, "coordinates": null, "place": null, "contributors": null, "is_quote_status": false, "extended_tweet": {"full text": "@JoeB
en Biden why don't you say a dam thing about all these democrats run states like Portland NewYork the riots looters pe
le dieing cops kids this is bullshits Joe. Have the balls if you have any speak out if you even care. This is all your

```

newyork 67.8 KB 27 No

newyork			
<div>All Documents</div> <div>Run A Query with Mango</div> <div>Permissions</div> <div>Changes</div> <div>Design Documents</div>	<div>Document ID</div> <div>Options</div> <div>{},JSON</div> <div>Create Document</div>	<div>Table</div> <div>Metadata</div> <div>JSON</div>	
id	key	value	
1295852438545629184	1295852438545629184	["rev": "1-d68b6c7fdda7ac3a338cc25ee00342f6"]	
1295852503026700248	1295852503026700248	["rev": "1-40xa3e429e5672e83"]	
1295852551464722432	1295852551464722432	["rev": "1-8e46006234ce7b34"]	
1295870209769734153	1295870209769734153	["rev": "1-57fda67e3b81582f"]	
1295870210340249800	1295870210340249800	["rev": "1-ca025ed0bda189f"]	
1295870212160532482	1295870212160532482	["rev": "1-d25b1ad23846a0d"]	
1295870213061721216	1295870213061721216	["rev": "1-86c43c54511226620"]	
1295870217806110725	1295870217806110725	["rev": "1-a58b1f81425a77b0d"]	
1295870218397462530	1295870218397462530	["rev": "1-92d18ac0f615d8b7a"]	

New York 2 (bd2)

```
C:\Users\Daniela\Documents\Gabo\QUINTO SEMESTRE GABO\BASES DE DATOS MULTIDIMENSIONALES>python tweets_newyork.py
SAVED('1295872539789598721', '1-d0bb59d43a0efb14ad6d5a58ccce96a')->{"created_at": "Tue Aug 18 23:57:44 +0000 2020", "id":
1295872539789598721, "id_str": "1295872539789598721", "text": "As always great market insight by @ichatterleyCHW https://t
.co/v6v1iafZdIn", "source": "\u003ca href=\"http://twitter.com/download/iphone\" rel=\"nofollow\"\u003eTwitter for IP
hone\u003c/a\u003e", "truncated": false, "in_reply_to_status_id": null, "in_reply_to_status_id_str": null, "in_reply_to_user_id
": null, "in_reply_to_user_id_str": null, "in_reply_to_screen_name": null, "user": {"id": 388419468, "id_str": "388419468", "name":
"Steven Dickens", "screen_name": "StevenDickens3", "location": "New York", "url": "http://www.mainframedebate.com", "descript
ion": "#Bitcoin Maximalist | Blogger | MW Leader of Sales People | Podcast host | #LinuxONE employee advocate | \ud83d\ud
c27 fan | Mainframer | Work @IBH views are 100% my own!", "translator_type": "none", "protected": false, "verified": false, "fo
llowers_count": 7609, "friends_count": 3465, "listed_count": 539, "favourites_count": 18843, "statuses_count": 40904, "created_at"
: "Tue May 31 11:30:12 +0000 2011", "utc_offset": null, "time_zone": null, "geo_enabled": true, "lang": null, "contributors_enable
d": false, "is_translator": false, "profile_background_color": "3A6175", "profile_background_image_url": "http://abs.twimg.co
m/images/themes/theme1/bg.png", "profile_background_image_url_https": "https://abs.twimg.com/images/themes/theme1
/bg.png", "profile_background_tile": true, "profile_link_color": "3894D9", "profile_sidebar_border_color": "FFFFFF", "profile_
sidebar_fill_color": "000000", "profile_text_color": "333333", "profile_use_background_image": true, "profile_image_url": "http
://abs.twimg.com/images/themes/theme1/default_profile.png", "profile_image_url_https": "https://abs.twimg.com/images/themes/theme1/default_profile.png", "profile_banner_url": "https://abs.twimg.com/profile_banners/388419468/1592448000"}
}
```

Script:

```
def save_tweet(doc):
    print ("SAVED" + str(doc) + ">" + str(data))
except:
    print ("Already exists")
    pass
return True

def on_error(self, status):
    print (status)

auth = OAuthHandler(ckey, csecret)
auth.set_access_token(accessToken, accessSecret)
twitterStream = Stream(auth, listener())

'''=====couchdb====='''
server = couchdb.Server('http://admin:admin@localhost:5984/') #('http://115.146.93.184:5984/')
try:
    db = server.create('newyork2')
except:
    db = server['newyork2']

'''=====LOCATIONS====='''

twitterStream.filter(locations=[-74.25909,40.477399,-73.700181,40.916178])
#twitterStream.filter(track=['newyork'])
```

Comprobamos en couchDB

Database Name	Size	Document Count	Replicas	Shard Count	Indexing	Actions
crisis	1.3 MB	337				[+][+][+]
ecuador	1.1 MB	337	No			[+][+][+]
ejercicio2	1.2 KB	1	No			[+][+][+]
espana	1.1 MB	337	No			[+][+][+]
guayas	210.6 KB	77	No			[+][+][+]
libro	9.6 KB	6	No			[+][+][+]
libros	0.7 KB	1	No			[+][+][+]
newyork	67.8 KB	27	No			[+][+][+]
newyork2	15.4 KB	7	No			[+][+][+]
prueba	0.7 KB	1	No			[+][+][+]

RÉPLICAS

De newyork a newyork2

Job Configuration

Source

Type:

Local database

Name:

newyork

Authentication:

Username and password

admin

•••••

Target

Type:

Existing local database

Name:

newyork2

Authentication:

Username and password

admin

•••••

Options

Replication type:

Continuous

Replication document:

Custom ID (optional)

↔️

Start Replication

Clear

Replica realizzata satisfattoriamente

http://localhost:5984/bd1

http://localhost:5984/bd2

Aug 18th, 7:10 pm

Continuous

Running

🔧

D

🗑️

De bd2 a bd 1

## Target

Type: Existing local database ▼

Name: bd1 ▼

Authentication: Username and password ▼

admin

.....

## Options

Replication type: Continuous ▼

Replication document: Custom ID (optional) ✕

↔ Start Replication

Clear

## Source

Type: Local database ▼

Name: bd2 ▼

Authentication: Username and password ▼

admin

.....

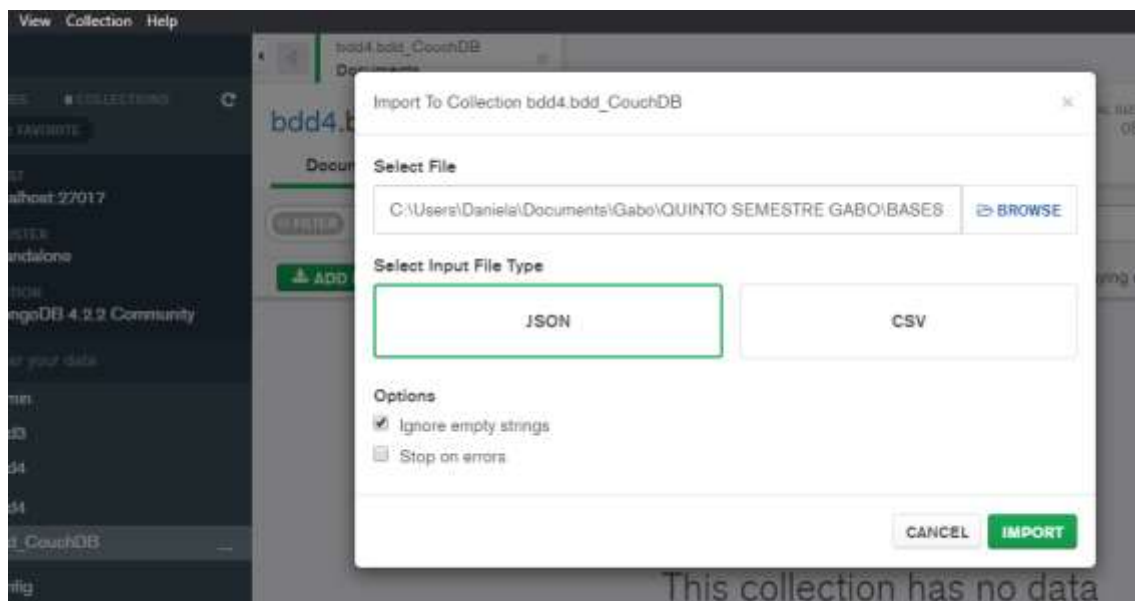
## Target

Tdo creado

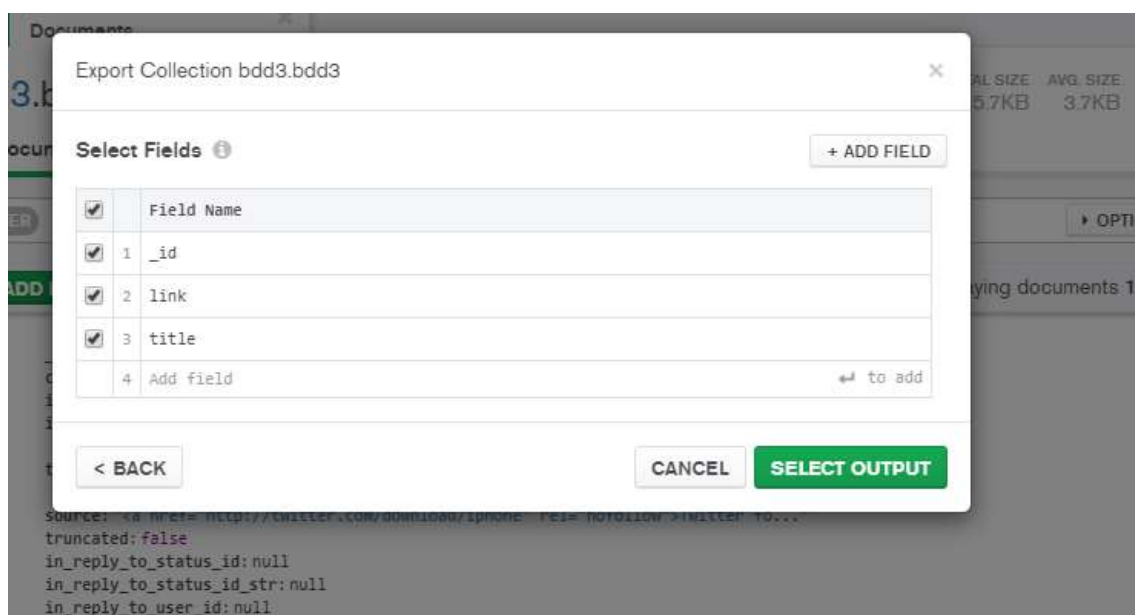
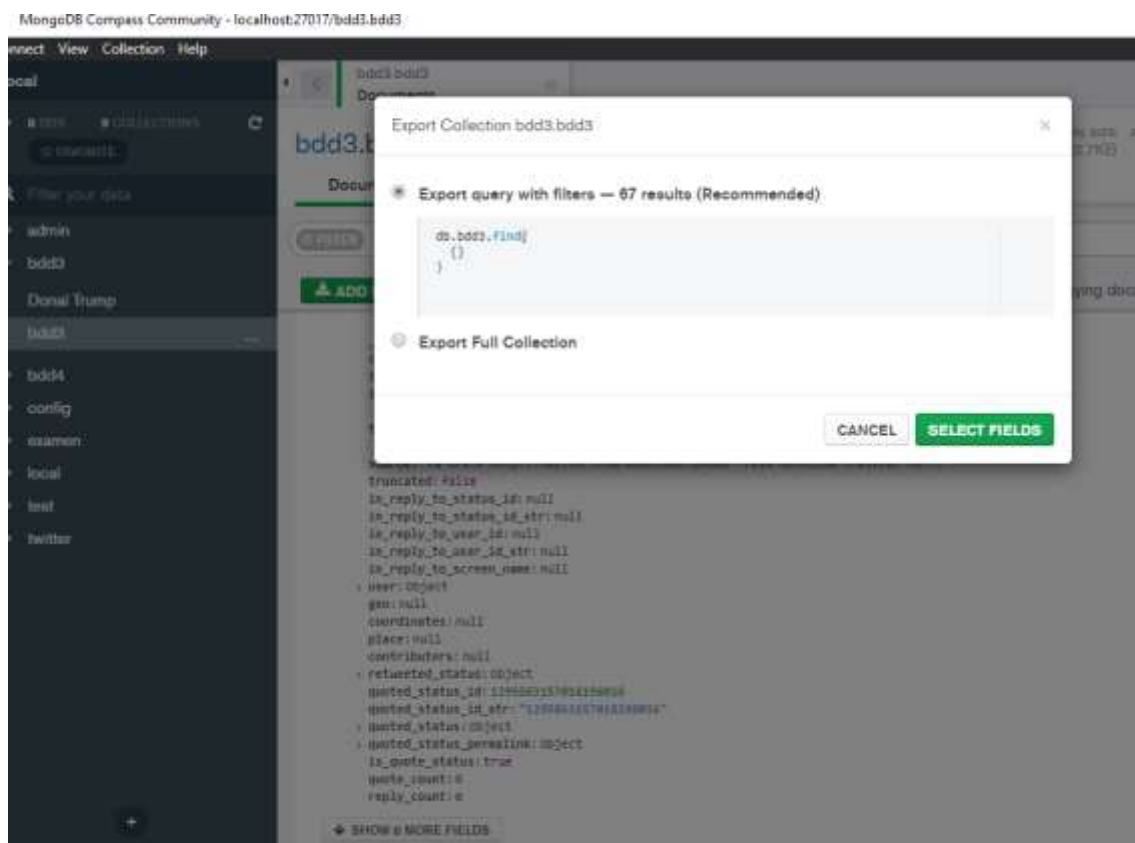
bd1	70.7 KB	29	No	  
bd2	70.3 KB	29	No	  

	http://localhost:5984/bd1	http://localhost:5984/bd2	Aug 18th, 7:10 pm	Continuous	Running			
	http://localhost:5984/bd2	http://localhost:5984/bd1	Aug 18th, 7:25 pm	Continuous	Running			

PASAR A UN JSON

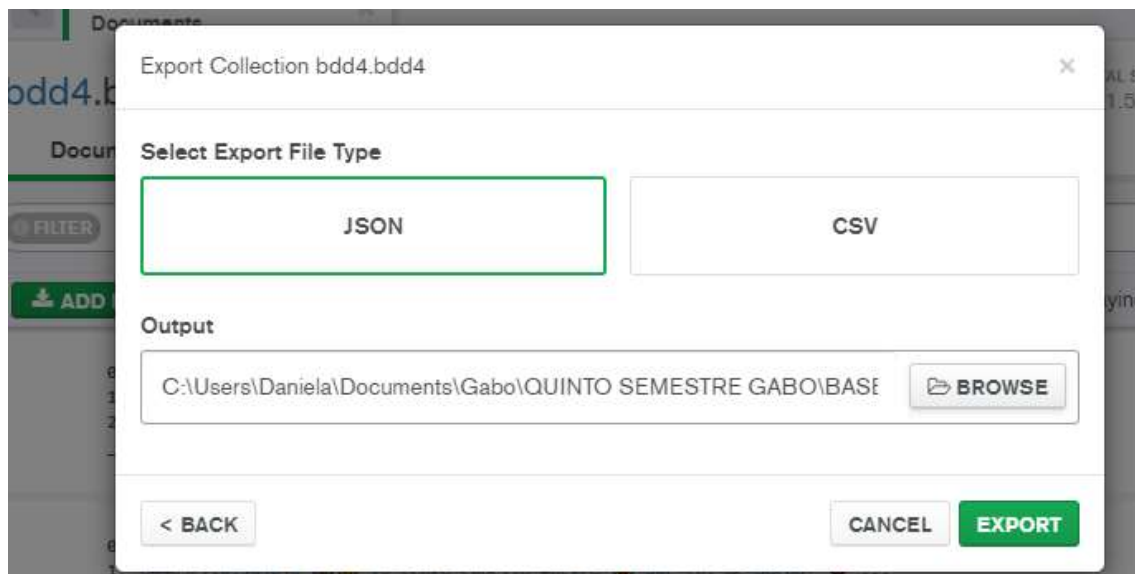


Exportar bdd3



Exportamos bdd4





Post de cualquier usuario tik tok

Usuario: AleSita

Archivos en csv

```

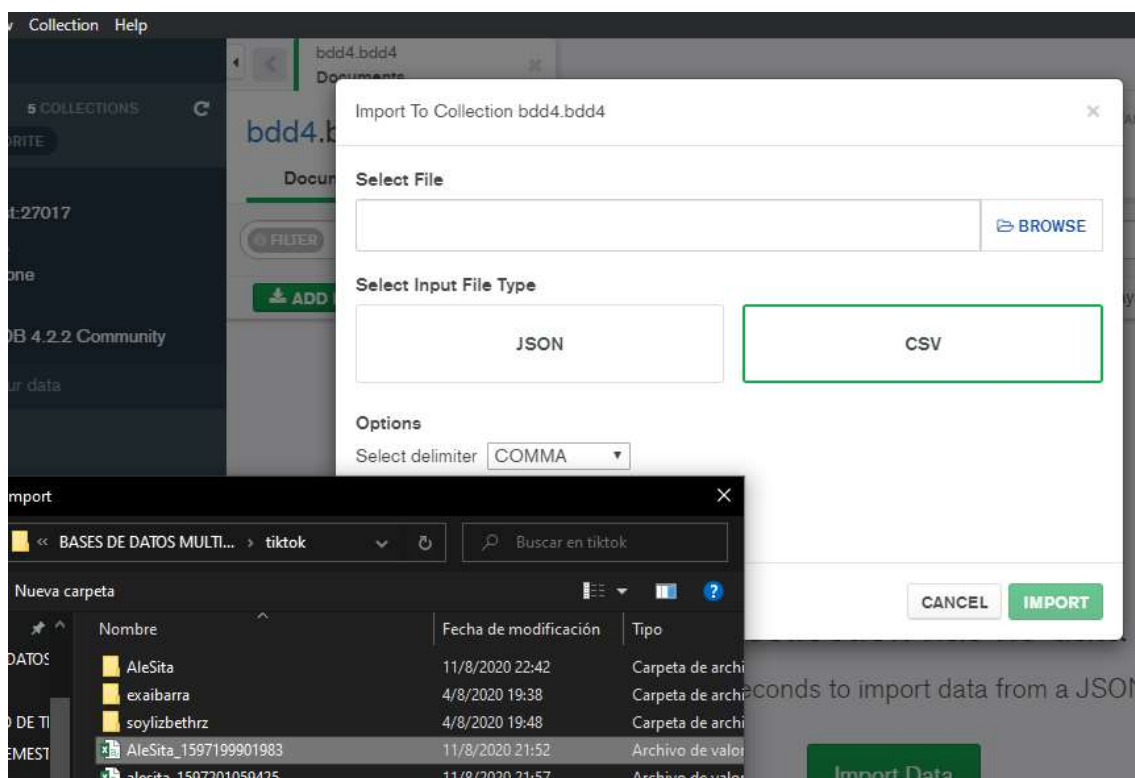
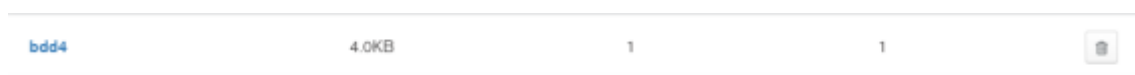
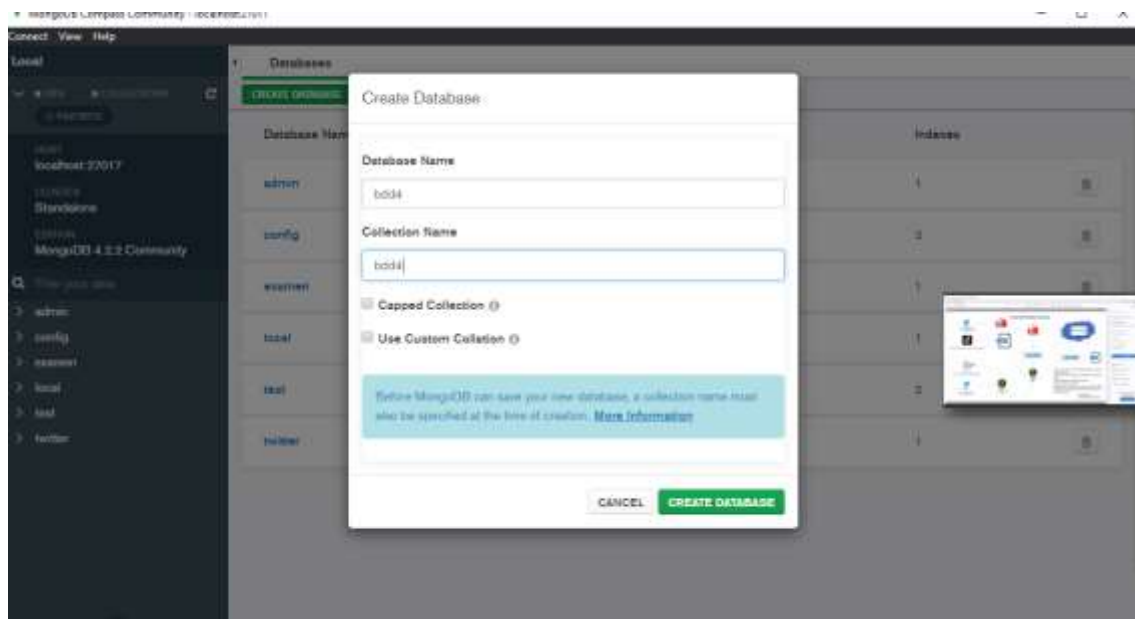
C:\Users\Daniela\Documents\Gabo\QUINTO SEMESTRE GABO\BASES DE DATOS MULTIDIMENSIONALES\tiktok>tiktok-scraper user AleSita
C:\Users\Daniela\Documents\Gabo\QUINTO SEMESTRE GABO\BASES DE DATOS MULTIDIMENSIONALES\tiktok>tiktok-scraper user alesita
C:\Users\Daniela\Documents\Gabo\QUINTO SEMESTRE GABO\BASES DE DATOS MULTIDIMENSIONALES\tiktok>tiktok-scraper user AleSita
C:\Users\Daniela\Documents\Gabo\QUINTO SEMESTRE GABO\BASES DE DATOS MULTIDIMENSIONALES\tiktok>tiktok-scraper user alesita
C:\Users\Daniela\Documents\Gabo\QUINTO SEMESTRE GABO\BASES DE DATOS MULTIDIMENSIONALES\tiktok>tiktok-scraper user kimberlyshantal -n 300 -t csv
CSV path: C:\Users\Daniela\Documents\Gabo\QUINTO SEMESTRE GABO\BASES DE DATOS MULTIDIMENSIONALES\tiktok\kimberlyshantal_1597201501187.csv
C:\Users\Daniela\Documents\Gabo\QUINTO SEMESTRE GABO\BASES DE DATOS MULTIDIMENSIONALES\tiktok>dir
El volumen de la unidad C no tiene etiqueta.
El número de serie del volumen es: 7485-CEFA
Directorio de C:\Users\Daniela\Documents\Gabo\QUINTO SEMESTRE GABO\BASES DE DATOS MULTIDIMENSIONALES\tiktok
11/08/2020  22:06    <DIR>          .
11/08/2020  22:06    <DIR>          ..

```

	AleSita	11/8/2020 22:42	Carpeta de archivos	
	exaibarra	4/8/2020 19:38	Carpeta de archivos	
	soylizbethrz	4/8/2020 19:48	Carpeta de archivos	
	AleSita_1597199901983	11/8/2020 21:52	Archivo de valores...	124 KB
	alesita_1597201059425	11/8/2020 21:57	Archivo de valores...	128 KB
	exaibarra_1596587058405	4/8/2020 19:24	Archivo de valores...	50 KB
	informe tiktok	4/8/2020 19:59	Archivo PNG	61 KB

Creación de bdd4 en MongoDB de forma local





C:\Users\Daniela\Documents\Gabo\QUINTO SEMESTRE GABO\BASES

 BROWSE

### Select Input File Type

JSON

CSV

### Options

Select delimiter COMMA ▼

☒ Ignore empty strings

☐ Stop on errors

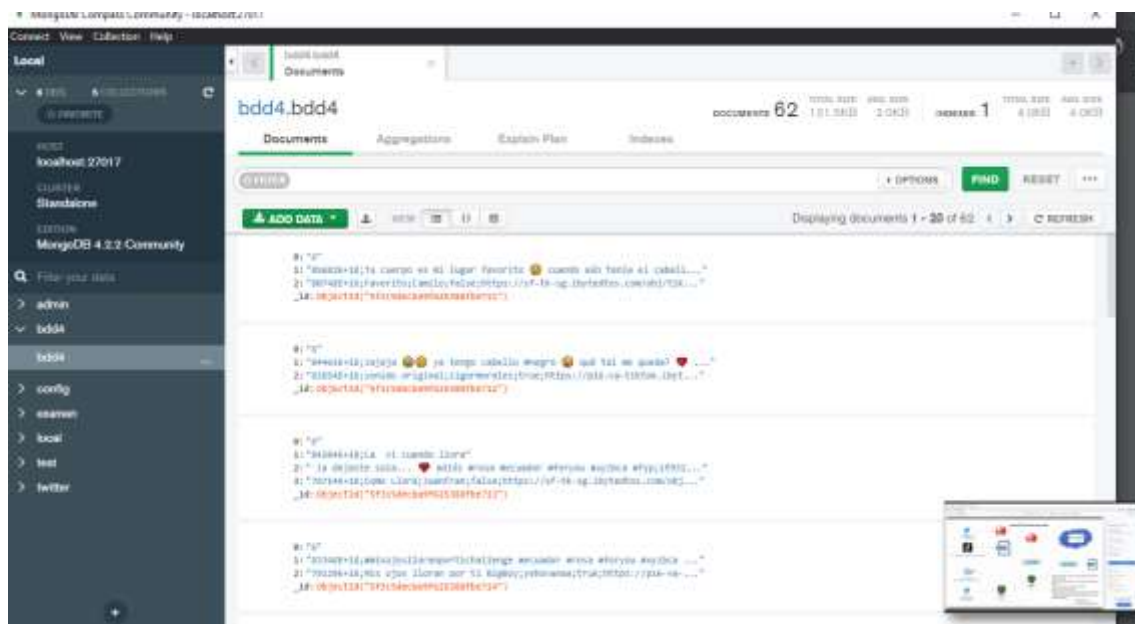
### Specify Fields and Types

	<input checked="" type="checkbox"/> 0	<input checked="" type="checkbox"/> 1
	String ▼	String ▼
1	6	85682E+18;Tu cuerpo es mi lugar favorito 😊 cuando aún tenía el cabel
2	6	84463E+18;Jajaja 😂😂 ya tengo cabello #negro 😊 qué tal me queda? ❤️
3	6	84284E+18;La vi cuando llora
4	6	83346E+18;#misojoslloranportichallenge #ecuador #rosa #foryou #xyzbca
5	6	82802E+18;#yoenlafiesta #tequila #bye #bailar #ecuador #rosa extraño s
6	6	82352E+18;#ecuador #rosa #ex #teamo #unanoche #xyzbca #bye lo siento b
7	6	82265E+18;#yoenlafiesta #ecuador #rosa #xyzbca #party solo desperté en
8	6	81764E+18;Los hombres sin más infieles 😊❤️#ecuador #rosa #foryou #xy
9	6	81573E+18;Nosotras siempre nos fijamos en los sentimientos 😊💔❤️ #pink

CANCEL

IMPORT

Hecho



Webscrapping

Página web: [www.librimundi.com](http://www.librimundi.com)



Script:

```
C:\Users\Daniela\Documents\Gabo\QUINTO SEMESTRE GABO\BASES DE DATOS MULTIDIMENSIONALES\webscraping_libros.py - Sublime Text (UNHEATED)
File Edit Selection Find View Goto Tools Project Preferences Help

1 import requests
2 from bs4 import BeautifulSoup
3 # Import MongoClient from pymongo so we can connect to the database
4 from pymongo import MongoClient
5
6 if __name__ == '__main__':
7     # Instantiate a client to our MongoDB instance
8
9     db_client = MongoClient("mongodb+srv://gabo2580:gabo2580@cluster0.192ev.mongodb.net/test")
10    db_client = MongoClient()
11    bdd3 = db_client.bdd3
12    bdd3 = bdd3.posts
13
14    response = requests.get("https://www.librimundi.com/")
15    soup = BeautifulSoup(response.content, "lxml")
16
17    post_titles = soup.find_all("a", class_="text-concat-title")
18
19    extracted = []
20    for post_title in post_titles:
21        extracted.append([
22            'title': post_title.text,
23            'link': "https://www.librimundi.com/" + post_title['href']
24        ])
25
26    for post in extracted:
27        if db_client.bdd3.bdd3.find_one({'link': post['link']}) is None:
28            print("Found a new listing at the following url: ", post['link'])
29            db_client.bdd3.bdd3.insert(post)
30
31
```

Corremos el script:

```
C:\Users\Daniela\Documents\Gabo\QUINTO SEMESTRE GABO\BASES DE DATOS MULTIDIMENSIONALES>python webscraping_libros.py
Found a new listing at the following url: https://www.librimundi.com/https://www.librimundi.com/9789942381682/pasiones-de-un-hombre-bueno.html
webscraping_libros.py:29: DeprecationWarning: insert is deprecated. Use insert_one or insert_many instead.
  db_client.bdd3.bdd3.insert(post)
Found a new listing at the following url: https://www.librimundi.com/https://www.librimundi.com/9788408140764/olvide-olvidarte.html
Found a new listing at the following url: https://www.librimundi.com/https://www.librimundi.com/9789580100546/11deres-por-naturaleza.html
Found a new listing at the following url: https://www.librimundi.com/https://www.librimundi.com/9789584285386/lo-que-las-plantas-saben.html
Found a new listing at the following url: https://www.librimundi.com/https://www.librimundi.com/9789584271309/gog.html
Found a new listing at the following url: https://www.librimundi.com/https://www.librimundi.com/9788423352364/libro-de-las-parabolas-el.html
Found a new listing at the following url: https://www.librimundi.com/https://www.librimundi.com/9788416720262/sabiduria-de-los-lobos-la.html
Found a new listing at the following url: https://www.librimundi.com/https://www.librimundi.com/9789584273390/organizaciones-coherentes.html
Found a new listing at the following url: https://www.librimundi.com/https://www.librimundi.com/9788423430512/rebelion-de-atlas-la.html
Found a new listing at the following url: https://www.librimundi.com/https://www.librimundi.com/9788408115342/puentes-del-manana-los.html
```

Conexión de forma local, creación de bdd3

MongoDB Compass Community - localhost:27017

Connect View Collections Help

Local

localhost:27017

Cluster

Shards

Indexes

MongoDB 4.2.2 Community

Filter your view

admin

bdd3

bdd4

config

examen

local

test

twitter

Databases

CREATE DATABASE

Database Name *	Storage Size	Collections	Indexes
admin	20.0KB	0	1
bdd3	4.0KB	1	1
bdd4	60.0KB	1	1
config	34.0KB	0	2
examen	20.0KB	1	1
local	36.0KB	1	1
test	40.0KB	2	2
twitter	76MB	1	1

bdd3 4.0KB 1 1

Webscrpaing de donal d trump

Script:

```

1  import pymongo
2  from tweepy import Stream
3  from tweepy import OAuthHandler
4  from tweepy.streaming import StreamListener
5  import json
6
7
8  ckey = "6Zyv4XxVypDqHDpFoHwSTrMzX"
9  csecret = "3J5TpltHtmEZGEw8RhRLABc3KQ2Quhjj2SVVykfw5zs02fjtpC"
10 atoken = "153168970-C8H0rPCjztDmLQMrjtgOYSPiZjLMyegrtrAZQQrq"
11 asecret = "WxWpMOMlghN1tVYZRFugRWtefM1SShLWVI41L4oPWTAlO"
12
13
14 class listener(StreamListener):
15
16     def on_data(self, data):
17         dictTweet = json.loads(data)
18         try:
19             dictTweet["_id"] = str(dictTweet['id'])
20             doc = mycol.insert_one(dictTweet)
21             print("SAVED" + str(doc) + "=>" + str(data))
22         except:
23             print("Already exists")
24             pass
25         return True
26
27     def on_error(self, status):
28         print(status)
29
30
31 auth = OAuthHandler(ckey, csecret)
32 auth.set_access_token(atoken, asecret)
33 twitterStream = Stream(auth, listener())

```

```

19         dictTweet["_id"] = str(dictTweet['id'])
20         doc = mycol.insert_one(dictTweet)
21         print("SAVED" + str(doc) + "=>" + str(data))
22     except:
23         print("Already exists")
24         pass
25     return True
26
27     def on_error(self, status):
28         print(status)
29
30
31 auth = OAuthHandler(ckey, csecret)
32 auth.set_access_token(atoken, asecret)
33 twitterStream = Stream(auth, listener())
34
35 '''Mmongo'''
36
37 myclient = pymongo.MongoClient("mongodb://localhost:27017")
38 mydb=myclient["bdd3"]
39 mycol = mydb["Donal Trump"]
40
41 '''=====LOCATIONS====='''
42
43
44 twitterStream.filter(track=['Donald Trump'])
45
46

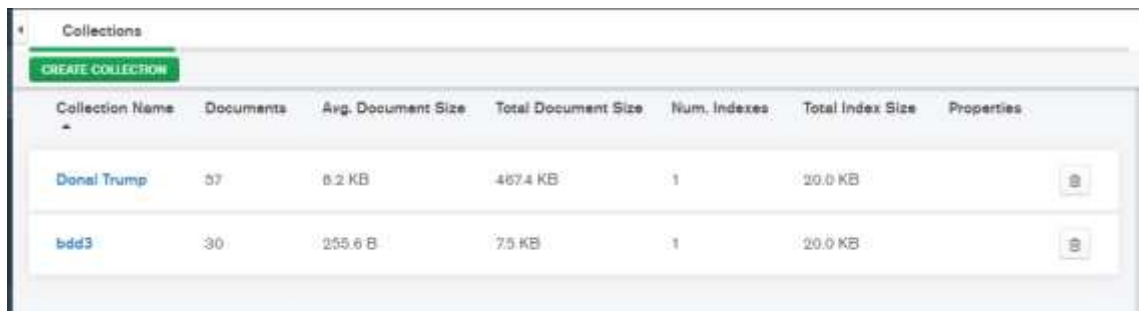
```



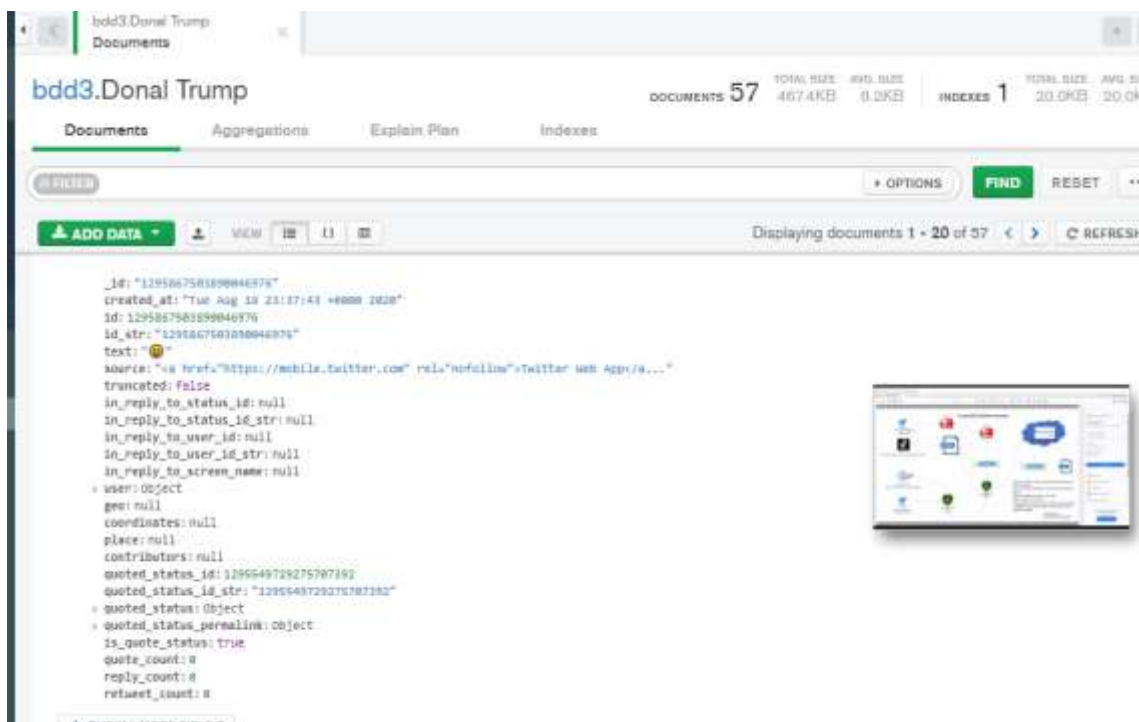
Mandamos a correr el script:

```
C:\Users\Daniela\Documents\Gabo\QUINTO SEMESTRE GABO\BASES DE DATOS MULTIDIMENSIONALES>python tweets_donald.py
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Comprobamos la creaci3n del mismo en la misma base bdd3 pero con el nombre de colecci3n Donal Trump, para diferenciar de la otra colecci3n que ya se creo



Collection Name	Documents	Avg. Document Size	Total Document Size	Num. Indexes	Total Index Size	Properties
Donal Trump	57	8.2 KB	467.4 KB	1	20.0 KB	
bdd3	30	255.6 B	7.5 KB	1	20.0 KB	



**bdd3.Donal Trump**

DOCUMENTS 57 TOTAL SIZE 467.4 KB AVG. SIZE 8.2 KB INDEXES 1 TOTAL INDEX SIZE 20.0 KB AVG. INDEX SIZE 20.0 KB

Documents Aggregations Explain Plan Indexes

Displaying documents 1 - 20 of 57

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Subir al Atlas



