Pythonist (https://soumilshah1995.blogspot.com/)

Saturday, February 8, 2020

Elastic Search Query Pagination in Python

Elastic Search Query Pagination in Python

Step 1:

- import the library

In [1]:

```python
try:
    import os
    import sys

    import elasticsearch
    from elasticsearch import Elasticsearch
    import pandas as pd

    print("All Modules Loaded ! ")
except Exception as e:
    print("Some Modules are Missing {}".format(e))
```

All Modules Loaded !

Step 2:

- create a elastic Search object

In [2]:

```python
def connect_elasticsearch():
    es = None
    es = Elasticsearch([{'host': 'localhost', 'port': 9200}])
    if es.ping():
        print('Yupiee  Connected ')
    else:
        print('Awww it could not connect!')
    return es
es = connect_elasticsearch()
```

Yupiee Connected

Step 3:

- define your query

```
myquey = {
    "_source": [],
    "size": 10,
    "query": {
        "bool": {
            "must": [],
            "filter": [
                {
                    "exists": {
                        "field": "director"
                    }
                }
            ],
            "should": [
                {
                    "match_phrase": {
                        "director": "Richard "
                    }
                }
            ],
            "must_not": []
        }
    }
}
```

Step 4 :

- make a response

In [11]:

```
res = es.search(
    index = 'mynetflix',
    scroll = '2m',
    size = 3,
    body = myquey)
```

Step 5:

- get Scroll ID

In [6]:

```
res
```

Out[6]:

```
{'_scroll_id': 'DXF1ZXJ5QW5kRmV0Y2gBAAAAAAAAILsWc29NUkZtc0FRZ0taRkdQa0RjNWpvvUQ==',
 'took': 54,
 'timed_out': False,
 '_shards': {'total': 1, 'successful': 1, 'skipped': 0, 'failed': 0},
 'hits': {'total': {'value': 4265, 'relation': 'eq'},
  'max_score': 5.6081457,
  'hits': [{'_index': 'mynetflix',
    '_type': '_doc',
    '_id': 'ca-BJXABCsI4zAxC-egx',
    '_score': 5.6081457,
    '_source': {'show_id': 81031008,
     'type': 'Movie',
     'title': 'For the Birds',
     'director': 'Richard Miron',
     'cast': 'Kathy Murphy',
     'country': 'United States',
     'date_added': 'September 1, 2019',
     'release_year': 2018,
     'rating': 'TV-MA',
     'duration': '93 min',
     'listed_in': 'Documentaries',
     'description': 'A woman with a passion for fowl keeps a menagerie of birds that draws the ire of neighbors, animal rights advoca
and even her own family.'}},
   {'_index': 'mynetflix',
    '_type': '_doc',
    '_id': 'Ta-BJXABCsI4zAxC-eoy',
    '_score': 5.6081457,
    '_source': {'show_id': 70297962,
     'type': 'Movie',
     'title': 'Alpha and Omega 2: A Howl-iday Adventure',
     'director': 'Richard Rich',
     'cast': 'Ben Diskin, Kate Higgins, Blackie Rose, Lindsay Torrance, Liza West, Tracy Pfau, Bill Lader, Meryl Leigh, Shaun Gerardo
     'country': 'United States',
     'date_added': 'October 1, 2019',
     'release_year': 2013,
     'rating': 'TV-G',
     'duration': '45 min',
     'listed_in': 'Children & Family Movies',
     'description': 'In this animated outdoor adventure, wolf couple Humphrey and Kate face a crisis when one of their three cubs dis
ears without explanation.'}},
   {'_index': 'mynetflix',
    '_type': '_doc',
    '_id': 'Jq-BJXABCsI4zAxC-esz',
    '_score': 5.6081457,
    '_source': {'show_id': 70206824,
     'type': 'Movie',
     'title': 'Triumph of the Heart',
     'director': 'Richard Michaels',
     'cast': 'Mario Van Peebles, Susan Ruttan, Lane R. Davis, Lynn Whitfield, Adam Faraizl, Polly Holliday, Jay Pennison, John Schuhm
er',
     'country': 'United States',
     'date_added': 'October 1, 2011',
     'release_year': 1991,
     'rating': 'TV-PG',
     'duration': '93 min',
     'listed_in': 'Dramas, Sports Movies',
     'description': 'This drama tells the tale of Ricky Bell, a pro running back with the Tampa Bay Buccaneers who died of a muscle d
ase in the prime of his career.'}}]}}
```

In [8]:

```
page = es.scroll(scroll_id = "DXF1ZXJ5QW5kRmV0Y2gBAAAAAAAAILsWc29NUkZtc0FRZ0taRkdQa0RjNWpvvUQ==", scroll = '10m')
```

In [9]:

```
page
```

Out[9]:

```
{'_scroll_id': 'DXF1ZXJ5QW5kRmV0Y2gBAAAAAAAAILsWc29NUkZtc0FRZ0taRkdQa0RjNWpvvUQ==',
 'took': 177,
 'timed_out': False,
 '_shards': {'total': 1, 'successful': 1, 'skipped': 0, 'failed': 0},
 'hits': {'total': {'value': 4265, 'relation': 'eq'},
  'max_score': 5.6081457,
  'hits': [{'_index': 'mynetflix',
    '_type': '_doc',
    '_id': 'Ua-BJXABCsI4zAxC-ewz',
    '_score': 5.6081457,
    '_source': {'show_id': 81028560,
     'type': 'Movie',
     'title': 'Shopkins: World Vacation',
     'director': 'Richard Bailey',
     'cast': 'Kate Murphy, Cassandra Morris, Erika Harlacher, Abby Trott, Brianna Plantano, Reba Buhr, Doug Erholtz, Cherami Leigh, B
nna Knickerbocker',
     'country': 'Australia',
     'date_added': 'November 15, 2018',
     'release_year': 2017,
     'rating': 'TV-Y',
     'duration': '71 min',
     'listed_in': 'Movies',
     'description': 'The Shopkins and Shoppies jet around the world in search of missing friend Kooky Cookie, a stolen diamond and mo
vloggable adventure.'}},
   {'_index': 'mynetflix',
    '_type': '_doc',
    '_id': 'gK-BJXABCsI4zAxC-ewz',
    '_score': 5.6081457,
    '_source': {'show_id': 70044870,
     'type': 'Movie',
     'title': '16 Blocks',
     'director': 'Richard Donner',
     'cast': 'Bruce Willis, Mos Def, David Morse, Jenna Stern, Cylk Cozart, Casey Sander, David Zayas, Robert Racki, Patrick Garrow,
ha Roiz',
     'country': 'United States, Germany',
     'date_added': 'November 1, 2019',
     'release_year': 2006,
     'rating': 'PG-13',
     'duration': '102 min',
     'listed_in': 'Action & Adventure',
     'description': "Tasked with escorting a prosecution witness to court, an aging cop gears up for the 16-block trek – but they'll
lucky to make it there alive."}},
   {'_index': 'mynetflix',
    '_type': '_doc',
    '_id': 'i6-BJXABCsI4zAxC-ew0',
    '_score': 5.6081457,
    '_source': {'show_id': 70046968,
     'type': 'Movie',
     'title': 'Cat on a Hot Tin Roof',
     'director': 'Richard Brooks',
     'cast': 'Elizabeth Taylor, Paul Newman, Burl Ives, Jack Carson, Judith Anderson, Madeleine Sherwood, Larry Gates, Vaughn Taylor'
     'country': 'United States',
     'date_added': 'November 1, 2019',
     'release_year': 1958,
     'rating': 'NR',
     'duration': '108 min',
     'listed_in': 'Classic Movies, Dramas',
     'description': "Members of a Southern clan scramble to curry favor with a dying, wealthy patriarch in this adaptation of Tenness
Williams's sizzling stage drama."}}]}}
```

In [13]:

```
sid =  res["_scroll_id"]
scroll_size = res['hits']['total']
scroll_size = scroll_size['value']
print()
```

In [14]:

```
len(res["hits"]["hits"])
```

Out[14]:

```
3
```

In [ ]:

```
shahsoumil519@gmail.com
Skype ID : soumil.shah7
```

step 6:

- you can also loop over data

In [15]:

```python
counter = 0

# Start scrolling
while (scroll_size > 0):

    print("Scrolling...")
    page = es.scroll(scroll_id = sid, scroll = '10m')
    print(len(page["hits"]["hits"]))
    # Update the scroll ID
    sid = page['_scroll_id']

    # Get the number of results that we returned in the last scroll
    scroll_size = len(page['hits']['hits'])

    print("Scroll Size {} ".format(scroll_size))
    # Do something with the obtained page
    counter = counter + 1
print("COUNTER : {}".format(counter))
```

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at February 08, 2020 (2020-02-08T09:21:00-08:00) (https://soumilshah1995.blogspot.com/2020/02/elastic-search-query-pagination-in.html)

2 comments:

Unknown (https://www.blogger.com/profile/09797767861152017544) May 3, 2021 at 9:31 PM (https://soumilshah1995.blogspot.com/2020/02/elastic-search-query-pagin showComment=1620102670225#c6490353843888127049)

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Reply

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> **Unknown (https://www.blogger.com/profile/02804193921654386519)** December 19, 2021 at 7:58 PM (https://soumilshah1995.blogspot.com/2020/02/elastic-sea in.html?showComment=1639972699441#c4207751262761745624)
>
> just set up kibana and run in browser and go to devtools tab

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Project: Data Analysis and Visualizations and Predicting Future Energy Consumption using LSTM Predicting Values 2 month Later Accurately RNN (https://soumilshah1995.blogspo
data-analysis-and.html)
Energy Hourly Energy Consumption ¶ Step 1: ¶ Import Library ¶ I...

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(https://soumilshah1995.blogspot.com/2019/04/server-and-client-send-actual-sensor.html)   (https://soumilshah1995.blogspot.com/2019/04/server-and-client-send-actua
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(https://soumilshah1995.blogspot.com/2019/05/smart-proxy-library-to-get-random-proxy.html)   (https://soumilshah1995.blogspot.com/2019/05/smart-proxy-library-to-ge
Smart Library that's fetch Random Proxy using Python Smart Proxy libra

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Upload any Sensor data to ThingSpeak using Raspberry/Arduino Python
Examples (https://soumilshah1995.blogspot.com/2019/04/upload-any-sen
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Using BERT with Scikit Learn to do Text classification¶ (https://soumilshah1995.blogspot.com/2021/04/using-bert-with-scikit-learn-to-do-text.html)
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