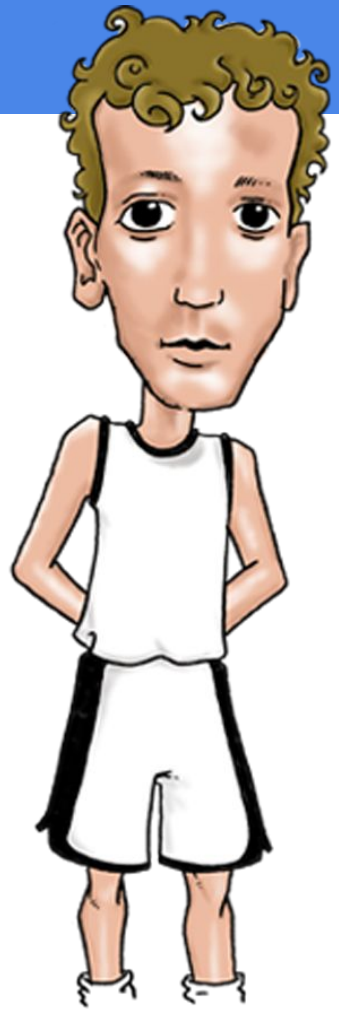

mongoDB®

Acessando o MongoDb com Python

Em Python, existem muitas bibliotecas para conexão com os dados em MongoDb.
Uma delas é a PyMongo

https://goo.gl/nHQADK

Instalando através do PIP

```
python -m pip install pymongo
```

https://api.mongodb.com/python/current/installation.html

Buscando pelo ID

```
from pymongo import MongoClient
from bson.objectid import ObjectId
import bson
import pprint
from bson.son import SON

client = MongoClient('localhost', 27017)
document = client.governo.bolsafamilia.find_one({"_id":
ObjectId("5c3e7014c8c6aed0c06e1f09")})
pprint.pprint(document)
client.close
```

https://api.mongodb.com/python/current/tutorial.html

Busca mais de um documento

```
from pymongo import MongoClient
from bson.objectid import ObjectId
import pprint

client = MongoClient('localhost', 27017)
for document in client.governo.bolsafamilia.find({"MUNICIPIO": "BAURU"}):
    pprint.pprint(document)
client.close
```

https://api.mongodb.com/python/current/tutorial.html

Insere um documento

```
post = {
     "REFERENCIA" : 201811,
     "CONPETENCIA" : 201711,
     "UF" : "SP",
     "SIAFI" : 2847,
     "MUNICIPIO" : "BAURU",
     "NIS" : bson.int64(16003242400),
     "NOME" : "CREMILTON DA SILVA SANTOS",
     "VALOR" : 171.0
}
post_id = client.governo.bolsafamilia.insert_one(post).inserted_id
pprint.pprint(post_id)
```

https://api.mongodb.com/python/current/tutorial.html

Examples …

https://api.mongodb.com/python/current/tutorial.html

Agregations

```
pipeline = [
    {
     "$group":
         {
             "_id": "$MUNICIPIO",
             "total":{"$sum": "$VALOR"},
             "count": {"$sum": 1}
         }
    }, {"$sort": SON([("count", -1), ("_id", -1)])}]
pprint.pprint(list(client.governo.bolsafamilia.aggregate(pipeline)))

client.close
```

https://api.mongodb.com/python/current/tutorial.html

Agregations …

http://api.mongodb.com/python/current/examples/aggregation.html

Referências

https://api.mongodb.com/python/current/installation.html
https://api.mongodb.com/python/current/tutorial.html