Disciplina: Banco de Dados Não Relacional

Exercício 4

Crie uma conta gratuita no Cassandra https://auth.cloud.datastax.com/

1. Implemente em Python as funções de manipulação da Base de Dados Não Relacional do Mercado Livre (EX1) no Cassandra, utilizando COLUNAS, não pode utilizar JSON.
    a. Insert em todas as coleções (Usuário, Vendedor, Produto, Compra)
    b. Update em Usuário
    c. Search em Produto
    d. Delete em Compra

PADRÃO DE ENTREGA:
NomeEX4_BDNR.pdf

DICAS:

selecionando a keypace

```
>use default_keyspace;

create table usuario (nome text, sobrenome text, PRIMARY KEY (sobrenome));

insert into usuario (nome, sobrenome) values ('Diogo', 'Branquinho');

select * from usuario;

 sobrenome  | nome
------------ --------
 Branquinho |  Diogo
      Lopes |  Carol
     Ramos | Brayan

>update usuario set name='Dioguinho' where sobrename='Branquinho';

>expand on;

>select * from usuario;

> describe keyspace;
```

CREATE KEYSPACE mercadolivre WITH replication = {'class': 'NetworkTopologyStrategy', 'us-east1': '3'}
AND durable_writes = true;

-----Replication Factor = 3

>describes cliuster;

Cluster: cndb
Partitioner: Murmur3Partitioner

Range ownership:

-9100974154692789766 [172.25.251.87, 172.25.155.4, 172.25.140.4]
-8815766657574031022 [172.25.251.87, 172.25.155.4, 172.25.140.4]
-8757904007576454311 [172.25.251.87, 172.25.155.4, 172.25.140.4]
-8706885777036158863 [172.25.155.4, 172.25.140.4, 172.25.251.87]
-8122690413126576012 [172.25.140.4, 172.25.251.87, 172.25.155.4]
-7332051158185185435 [172.25.251.87, 172.25.140.4, 172.25.155.4]
-7151375508949391695 [172.25.140.4, 172.25.155.4, 172.25.251.87]
-5997197232086596165 [172.25.140.4, 172.25.155.4, 172.25.251.87]
-5602198877472116470 [172.25.155.4, 172.25.251.87, 172.25.140.4]
-5081045956033042830 [172.25.251.87, 172.25.155.4, 172.25.140.4]
-4967254763356822223 [172.25.251.87, 172.25.155.4, 172.25.140.4]
-4670893824413955986 [172.25.155.4, 172.25.140.4, 172.25.251.87]
-4258249077284616805 [172.25.140.4, 172.25.251.87, 172.25.155.4]
-3568934399982590225 [172.25.140.4, 172.25.251.87, 172.25.155.4]
-2210104256299410738 [172.25.251.87, 172.25.155.4, 172.25.140.4]
-1036125373915067225 [172.25.155.4, 172.25.140.4, 172.25.251.87]
926361787014724386 [172.25.140.4, 172.25.155.4, 172.25.251.87]
1579771986415856473 [172.25.155.4, 172.25.140.4, 172.25.251.87]
4660555775044663644 [172.25.155.4, 172.25.140.4, 172.25.251.87]
5099029400421421668 [172.25.155.4, 172.25.140.4, 172.25.251.87]
5934352329465641547 [172.25.155.4, 172.25.140.4, 172.25.251.87]
6644431142182464651 [172.25.140.4, 172.25.251.87, 172.25.155.4]
7239616728043944713 [172.25.140.4, 172.25.251.87, 172.25.155.4]
8081072552703340637 [172.25.251.87, 172.25.155.4, 172.25.140.4]

----- 24 nós no cluster

>ALTER TABLE usuario ADD (cpf int, end text);

> insert into usuario(id int PRIMARY KEY, nome, sobrenome, cpf, end) values ('Ana', 'Nobody',
1234567879, 'Lattes');

>consistency
Current consistency level is LOCAL_QUORUM.

> consistency ONE
Consistency level set to ONE.

> consistency ALL
Consistency level set to ALL.

create table usuario (email text, cpf text, end text, nome text, sobrenome text, PRIMARY KEY (email));

insert into usuario (email, end) values ('treta', '{"chave":23, "value":0}');

select JSON end from usuario;

```
 [json]
----------------------------------------
                    {"end": null}
 {"end": "{\"chave\":23, \"value\":0}"}
                    {"end": null}
               {"end": "Rua do Rio"}
```

select JSON * from usuário;

PYTHON + CASSANDRA
https://docs.datastax.com/en/developer/python-driver/3.29/getting_started/index.html