**Exerc-Au04- KSQL Datagen**

**1. Criar o tópico users com os dados do ksql-datagen**

* quickstart=users
* topic=users

Resposta:

marco@DESKTOP-G2455QH:~/treinamentos/kafka$ docker exec -it ksql-datagen bash

root@ksql-datagen:/# ksql-datagen bootstrap-server=broker:29092 schemaRegistryUrl=schema-registry:8081 quickstart=users topic=users

Ficará gerando as mensagens automaticamente.

Exemplo:

...

ser\_9 --> ([ 1513591346497L | 'User\_9' | 'Region\_8' | 'MALE' ]) ts:1647037147224

User\_9 --> ([ 1496677148445L | 'User\_9' | 'Region\_6' | 'MALE' ]) ts:1647037147224

User\_2 --> ([ 1512281264658L | 'User\_2' | 'Region\_3' | 'OTHER' ]) ts:1647037147224

User\_9 --> ([ 1509686709639L | 'User\_9' | 'Region\_6' | 'FEMALE' ]) ts:1647037147224

User\_7 --> ([ 1511353691589L | 'User\_7' | 'Region\_4' | 'FEMALE' ]) ts:1647037147225

User\_5 --> ([ 1498140416797L | 'User\_5' | 'Region\_5' | 'FEMALE' ]) ts:1647037147225

User\_8 --> ([ 1502670119555L | 'User\_8' | 'Region\_9' | 'OTHER' ]) ts:1647037147225

User\_5 --> ([ 1491032337845L | 'User\_5' | 'Region\_3' | 'FEMALE' ]) ts:1647037147225

User\_2 --> ([ 1489568738403L | 'User\_2' | 'Region\_7' | 'MALE' ]) ts:1647037147225

User\_1 --> ([ 1518705191270L | 'User\_1' | 'Region\_9' | 'MALE' ]) ts:1647037147225

User\_2 --> ([ 1502209654721L | 'User\_2' | 'Region\_2' | 'OTHER' ]) ts:1647037147225

User\_2 --> ([ 1494159178155L | 'User\_2' | 'Region\_3' | 'OTHER' ]) ts:1647037147225

User\_1 --> ([ 1496395946314L | 'User\_1' | 'Region\_6' | 'FEMALE' ]) ts:1647037147225

...

**2. Visualizar os dados do tópico no Ksql**

Resposta:

**print “users” (resp professor)**

**list topics; (resp professor)**

**show streams; (resp professor)**

**show tables; (resp professor)**

(não deu certo na minha máquina)

marco@DESKTOP-G2455QH:~/treinamentos/kafka$ docker exec -it ksql-datagen bash

root@ksql-datagen:/# print "users"

Can't locate Encode.pm in @INC (you may need to install the Encode module) (@INC contains: /etc/perl /usr/local/lib/x86\_64-linux-gnu/perl/5.24.1 /usr/local/share/perl/5.24.1 /usr/lib/x86\_64-linux-gnu/perl5/5.24 /usr/share/perl5 /usr/lib/x86\_64-linux-gnu/perl/5.24 /usr/share/perl/5.24 /usr/local/lib/site\_perl /usr/lib/x86\_64-linux-gnu/perl-base) at /usr/bin/print line 12.

BEGIN failed--compilation aborted at /usr/bin/print line 12.

root@ksql-datagen:/# list topics;

bash: list: command not found

root@ksql-datagen:/# print "users";

Can't locate Encode.pm in @INC (you may need to install the Encode module) (@INC contains: /etc/perl /usr/local/lib/x86\_64-linux-gnu/perl/5.24.1 /usr/local/share/perl/5.24.1 /usr/lib/x86\_64-linux-gnu/perl5/5.24 /usr/share/perl5 /usr/lib/x86\_64-linux-gnu/perl/5.24 /usr/share/perl/5.24 /usr/local/lib/site\_perl /usr/lib/x86\_64-linux-gnu/perl-base) at /usr/bin/print line 12.

BEGIN failed--compilation aborted at /usr/bin/print line 12.

root@ksql-datagen:/# list topics;

bash: list: command not found

root@ksql-datagen:/#

**3. Criar o stream users\_raw com os dados do tópico users com as seguintes propriedades**

* kafka\_topic='users’
* value\_format='JSON’
* key = 'userid’
* timestamp='registertime’

Resposta do professor :

CREATE STREAM users\_raw WITH (KAFKA\_TOPIC='users', VALUE\_FORMAT='JSON', KEY='userid', TIMESTAMP='registertime');

ou

CREATE STREAM users\_raw(userid VARCHAR, registertime BIGINT) WITH (KAFKA\_TOPIC='users', VALUE\_FORMAT='JSON', KEY='userid', TIMESTAMP='registertime');

root@ksql-datagen:/# CREATE STREAM users\_raw WITH (KAFKA\_TOPIC='users', VALUE\_FORMAT="JSON", KEY='userid', TIMESTAMP='resgistertime');

bash: syntax error near unexpected token `('

root@ksql-datagen:/# CREATE STREAM users\_raw WITH (KAFKA\_TOPIC='users', VALUE\_FORMAT='JSON', KEY='userid', TIMESTAMP='registertime';

bash: syntax error near unexpected token `('

root@ksql-datagen:/# CREATE STREAM users\_raw WITH KAFKA\_TOPIC='users', VALUE\_FORMAT='JSON', KEY='userid', TIMESTAMP='registertime';

bash: CREATE: command not found

root@ksql-datagen:/#

**4. Visualizar a estrutura da Stream  users\_raw**

show streams;

show tables;

**5. Visualizar os dados da Stream  users\_raw**

select \* from users\_raw;

**6. Repetir todo o proceso para o tópico pageviews**

* ksql-datagen quickstart=pageviews topic= pageviews

Resposta do professor:

ksql-datagen bootstrap-server=broker:29092 schemaRegistryUrl=schema-registry:8081 quickstart=pageviews topic=pageviews

print "pageviews"

CREATE STREAM pageviews\_raw WITH (KAFKA\_TOPIC='pageviews', VALUE\_FORMAT='JSON', KEY='userid', TIMESTAMP='viewtime');

ou

CREATE STREAM pageviews\_raw (userid VARCHAR, viewtime BIGINT ) WITH (KAFKA\_TOPIC='pageviews', VALUE\_FORMAT='JSON', KEY='userid', TIMESTAMP='viewtime');

show streams;

show tables;

select \* from pageviews\_raw;