Assignment3-NoSQL

April 8, 2020

1 ASSIGNMENT 3

1.0.1 NoSQL MongoDB

1.1 Abstract

The aim of this assignment is to convert the SQL Database into NoSQL Database. The doman of the last assignment was supermarket dataset. The data set was taken from kaggle and had information about the customer transaction for products purchased from a particular Product Line. Twitter was the social media scraped for tweets about the product line. This assignment converts the previous SQL Database into NoSQL database and stores everything in MongoDB Database.

1.2 Data Source

The Link for the data source we have used for this assignment and the previous assignment-

https://www.kaggle.com/aungpyaeap/supermarket-sales

What is SQL Database? SQL are relational databases. They use SQL queries to manipulate the data. Although SQL is a very powwerfull language, it is extremely restrictive. It requires predefined schemas to determine the structure of your data before you start working with it. SQL requires all the data to follow the same structure for working with it. Changing the structure of the schema can be disruptive for the whole system. SQL is veryically scalable. SQL Databases are table based and Follow ACID properties, - Availability, consistency, Isolation and Durability. Some popular SQL Databases are - PostgreSQL, MySQL, Oracle, Microsoft SQL Server

What is NoSQL Database? NoSQL is primarily called the Non-Relational database or distributed databases. NoSQL has dynamic schemas for non structured data storage. In NoSQL data can be stored in various ways, document-oriented, graph based, column oriented or key value store. NoSQL database is horizantally scalable, which means it manages traffic by data sharding or adding more servers to your NoSQL Database. NoSQL databases follow the Brewers CAP theorem (Consistency, Availability and Partition Tolerance) Some popoular NoSQL Database are - Redis, RavenDB, Cassandra, MongoDB, CouchDB

1.3 Data Auditing

Data Auditing is performed on the dataset from kaggle for checking for its validity ,completeness and consistency

```
[4]: from pymongo import MongoClient
import sqlite3
import os
from twitter import *
import tweepy
import pandas as pd
import pprint
import datetime
```

1.3.1 Reading the CSV File for Sales data

```
[5]: supermarket_data = pd.read_csv("supermarket.csv")
supermarket_data.head()
```

		1						
[5]:		Invoice ID	first name	last name		address	phone	1 \
	0	750-67-8428	- James	- Butt	6649 N	Blue Gum St	-	
	1	226-31-3081	Josephine	Darakjy	4 B Blue	e Ridge Blvd	810-292-938	8
	2	631-41-3108	Art	Venere		itos Ave #54		9
	3	123-19-1176	Lenna	Paprocki		639 Main St	907-385-441	2
	4	373-73-7910	Donette	Foller	;	34 Center St	513-570-189	3
		phone2			email	l Branch	City \	
	0	504-845-1427		jbutt	.@gmail.com	m A	Yangon	
	1	810-374-9840	josephine	e_darakjy@d	larakjy.org	g C Nay	pyitaw	
	2	856-264-4130		art@	venere.org	-	Yangon	
	3	907-921-2010	-	lpaprocki@h	notmail.com	m A	Yangon	
	4	513-549-4561	do	onette.foll	er@cox.net	t A	Yangon	
		Customer type	To	tal Dat	e Time	Payment	cogs \	
	0	Member	548.9	715 1/5/1	9 13:08	Ewallet	522.83	
	1	Normal	80.22	200 3/8/1	9 10:29	Cash	76.40	
	2	Normal	340.52	255 3/3/1	9 13:23	Credit card	324.31	
	3	Member	489.04	480 1/27/1	9 20:33	Ewallet	465.76	
	4	Normal	634.3	785 2/8/1	9 10:37	Ewallet	604.17	
		gross margin	percentage	e gross ind	ome Rating	g CIT	TY STATE	
	0		4.76190	5 26.1	415 9.	1 New Orlean	ns LA	
	1		4.76190	5 3.8	3200 9.6	6 Brighto	on MI	
	2		4.76190	5 16.2	2155 7.4	4 Bridgepor	rt NJ	
	3		4.76190	5 23.2	2880 8.4	4 Anchorag	ge AK	
	4		4.76190	5 30.2	2085 5.3	3 Hamilto	on OH	

1.3.2 Information about supermarket dataset

[6]: supermarket_data.info()

<class 'pandas.core.frame.DataFrame'> RangeIndex: 1000 entries, 0 to 999 Data columns (total 25 columns): Invoice ID 1000 non-null object first_name 1000 non-null object last_name 1000 non-null object 1000 non-null object address 1000 non-null object phone1 phone2 1000 non-null object email 1000 non-null object Branch 1000 non-null object 1000 non-null object City 1000 non-null object Customer type Gender 1000 non-null object Product line 1000 non-null object 1000 non-null float64 Unit price 1000 non-null int64 Quantity 1000 non-null float64 Tax 5% Total 1000 non-null float64 1000 non-null object Date 1000 non-null object Time Payment 1000 non-null object 1000 non-null float64 cogs gross margin percentage 1000 non-null float64 gross income 1000 non-null float64 1000 non-null float64 Rating CITY 1000 non-null object STATE 1000 non-null object dtypes: float64(7), int64(1), object(17) memory usage: 195.4+ KB

1.3.3 Checking for missing values in the data set

[7]: supermarket_data.isnull().any()

[7]: Invoice ID False
first_name False
last_name False
address False
phone1 False
phone2 False

email False Branch False City False Customer type False Gender False Product line False Unit price False Quantity False Tax 5% False Total False Date False Time False Payment False False cogs gross margin percentage False gross income False Rating False CITY False STATE False

dtype: bool

1.3.4 Describing the Schema

[8]: supermarket_data.describe()

[8]:		Unit price	Quantity	Tax 5%	Total	cogs	\
	count	1000.000000	1000.000000	1000.000000	1000.000000	1000.00000	
	mean	55.672130	5.510000	15.379369	322.966749	307.58738	
	std	26.494628	2.923431	11.708825	245.885335	234.17651	
	min	10.080000	1.000000	0.508500	10.678500	10.17000	
	25%	32.875000	3.000000	5.924875	124.422375	118.49750	
	50%	55.230000	5.000000	12.088000	253.848000	241.76000	
	75%	77.935000	8.000000	22.445250	471.350250	448.90500	
	max	99.960000	10.000000	49.650000	1042.650000	993.00000	
		gross margin	percentage	gross income	Rating		
	count	1	.000000e+03	1000.000000	1000.00000		
	mean	4	.761905e+00	15.379369	6.97270		
	std			11.708825	1.71858		
	min			0.508500	4.00000		
	25%	4	.761905e+00	5.924875	5.50000		
	50%	4	.761905e+00	12.088000	7.00000		
	75%	4	.761905e+00	22.445250	8.50000		
	max	4	.761905e+00	49.650000	10.00000		

1.4 Installing the Python Drivers

[9]: pip install pymongo Requirement already satisfied: pymongo in c:\users\sanskruti\anaconda3\lib\site-

packages (3.10.1)

Note: you may need to restart the kernel to use updated packages.

[10]: pip install twitter

Requirement already satisfied: twitter in c:\users\sanskruti\anaconda3\lib\site-packages (1.18.0)

Note: you may need to restart the kernel to use updated packages.

[11]: pip install tweepy

```
Requirement already satisfied: tweepy in c:\users\sanskruti\anaconda3\lib\site-
packages (3.8.0)
Requirement already satisfied: requests-oauthlib>=0.7.0 in
c:\users\sanskruti\anaconda3\lib\site-packages (from tweepy) (1.3.0)
Requirement already satisfied: PySocks>=1.5.7 in
c:\users\sanskruti\anaconda3\lib\site-packages (from tweepy) (1.7.0)
Requirement already satisfied: six>=1.10.0 in
c:\users\sanskruti\anaconda3\lib\site-packages (from tweepy) (1.12.0)
Requirement already satisfied: requests>=2.11.1 in
c:\users\sanskruti\anaconda3\lib\site-packages (from tweepy) (2.22.0)
Requirement already satisfied: oauthlib>=3.0.0 in
c:\users\sanskruti\anaconda3\lib\site-packages (from requests-
oauthlib>=0.7.0->tweepy) (3.1.0)
Requirement already satisfied: urllib3!=1.25.0,!=1.25.1,<1.26,>=1.21.1 in
c:\users\sanskruti\anaconda3\lib\site-packages (from requests>=2.11.1->tweepy)
(1.24.2)
Requirement already satisfied: chardet<3.1.0,>=3.0.2 in
c:\users\sanskruti\anaconda3\lib\site-packages (from requests>=2.11.1->tweepy)
(3.0.4)
Requirement already satisfied: certifi>=2017.4.17 in
c:\users\sanskruti\anaconda3\lib\site-packages (from requests>=2.11.1->tweepy)
(2019.6.16)
Requirement already satisfied: idna<2.9,>=2.5 in
c:\users\sanskruti\anaconda3\lib\site-packages (from requests>=2.11.1->tweepy)
(2.8)
```

Note: you may need to restart the kernel to use updated packages.

1.5 Twitter API

```
[12]: consumer_Key = "44qTzVYo91BvDDrt7JY2jUc9V"
    consumer_Secret_Key = "zINUwbwlRzSguW30I4cR28QH9j0248S5BmRsDVKXlAGgZoFk11"
    access_token = "1246250838265335810-HLZHUQ2lfxIJ400ZnEGMBf1f0jy0p5"
    access_token_secret = "40erR3m6TQPleqXUtlvCzzqc1crMXWPKIzupyXRs3C4dn"

    auth = tweepy.OAuthHandler(consumer_Key, consumer_Secret_Key)
    auth.set_access_token(access_token, access_token_secret)
    api = tweepy.API(auth,wait_on_rate_limit=True)
```

```
[13]: productLines=set(supermarket_data["Product line"])
```

1.6 Scraping The tweets for ProductLines

```
[14]: productLinesDictionary = {}
     def productLineSearch(query):
         tweets = []
          count = 100
          searchedTweets = api.search(q=query,count=count,since="2020-04-08",_
      for tweet in searchedTweets:
             tags = []
             hashtags = (tweet._json["entities"]["hashtags"])
             screenname = tweet._json["user"]['screen_name']
             for tag in hashtags:
                 tags.append(tag["text"])
              if len(tags) == 0:
                 tags = ""
             tweet_obj ={
                      "product_Line":query,
                      "created at":tweet.created at,
                      "screenname":screenname,
                      "id":tweet.id.
                      "text": tweet.text,
                      "retweet":tweet.retweet_count,
                      "favCount":tweet.favorite_count,
                      "tags":tags
              }
             tweets.append(tweet_obj)
         productLinesDictionary[query] = tweets
```

```
[15]: # Finds the tweets for all product lines
for product in productLines:
    productLineSearch(product)
```

1.7 Printing all the tweets scraped for all the ProductLines

[16]: productLinesDictionary [16]: {'Food and beverages': [{'product_Line': 'Food and beverages', 'created_at': datetime.datetime(2020, 4, 8, 22, 40, 52), 'screenname': 'VIRBOY21', 'id': 1248018000122281984, 'text': 'RT @Shell_Canada: Our priority is the health & safety of everyone affected by this pandemic, but we want to do more. In the coming weeks, a…', 'retweet': 678, 'favCount': 0, 'tags': ''}, {'product Line': 'Food and beverages', 'created_at': datetime.datetime(2020, 4, 8, 21, 49, 26), 'screenname': 'RayDubicki', 'id': 1248005053928992768, 'text': 'TIL there is an extensive section of the Seattle City Code devoted to milk.\n\nAnd it's probably against the law for... https://t.co/OCkLCFLinS', 'retweet': 0, 'favCount': 1, 'tags': ''}, {'product_Line': 'Food and beverages', 'created_at': datetime.datetime(2020, 4, 8, 21, 47, 25), 'screenname': 'HofNorthwoods', 'id': 1248004547814903810, 'text': '@stealthygeek Golfing! Our local course where I have great memories with my dad, who was sadly lost to agent orange... https://t.co/Ia1NJPOEaA', 'retweet': 0, 'favCount': 0, 'tags': ''}, {'product Line': 'Food and beverages', 'created_at': datetime.datetime(2020, 4, 8, 21, 40, 12), 'screenname': 'iseeassociates', 'id': 1248002728967589890, 'text': 'RT @Shell_Canada: Our priority is the health & safety of everyone affected by this pandemic, but we want to do more. In the coming weeks, a...', 'retweet': 678, 'favCount': 0, 'tags': ''}, {'product_Line': 'Food and beverages', 'created_at': datetime.datetime(2020, 4, 8, 21, 38, 7), 'screenname': 'cummings_jim2', 'id': 1248002206277615616, 'text': 'RT @Shell_Canada: Our priority is the health & safety of

```
everyone affected by this pandemic, but we want to do more. In the coming weeks,
a…',
   'retweet': 678,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Food and beverages',
   'created at': datetime.datetime(2020, 4, 8, 21, 33, 20),
   'screenname': 'BobBaileyPC',
   'id': 1248001002797662208,
   'text': 'RT @Shell_Canada: Our priority is the health & safety of
everyone affected by this pandemic, but we want to do more. In the coming weeks,
a…',
   'retweet': 678,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Food and beverages',
   'created_at': datetime.datetime(2020, 4, 8, 21, 33, 9),
   'screenname': 'Roxesays',
   'id': 1248000955821555716,
   'text': '#TheFive\n\nMaking prepared food and beverages tax free for at least
a year or for the rest of this year is an EXCELL... https://t.co/ytQphJnvxJ',
   'retweet': 0,
   'favCount': 0,
   'tags': ['TheFive']},
  {'product_Line': 'Food and beverages',
   'created at': datetime.datetime(2020, 4, 8, 21, 30, 2),
   'screenname': 'Jorgeleon17',
   'id': 1248000171700453376,
   'text': 'Beer and soda isn't a snack, they're beverages. All these look
disgusting btw. Lol All can go, I can bring my own f... https://t.co/kREpaMJ100',
   'retweet': 1,
   'favCount': 4,
   'tags': ''},
  {'product_Line': 'Food and beverages',
   'created_at': datetime.datetime(2020, 4, 8, 21, 29, 23),
   'screenname': 'ChattyKatherine',
   'id': 1248000007543894021,
   'text': 'RT @Shell_Canada: Our priority is the health & safety of
everyone affected by this pandemic, but we want to do more. In the coming weeks,
a…',
   'retweet': 678,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Food and beverages',
   'created_at': datetime.datetime(2020, 4, 8, 21, 26, 48),
   'screenname': 'jmachadorn',
   'id': 1247999356805890048,
```

```
'text': 'RT @Shell Canada: Our priority is the health & amp; safety of
everyone affected by this pandemic, but we want to do more. In the coming weeks,
a…',
   'retweet': 678,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Food and beverages',
   'created_at': datetime.datetime(2020, 4, 8, 21, 22, 5),
   'screenname': 'myra539',
   'id': 1247998170937937920,
   'text': '@realDonaldTrump Open us with social distancing! Tax deductions for
food and beverages for businesses again!!!!',
   'retweet': 0,
   'favCount': 1,
   'tags': ''},
  {'product_Line': 'Food and beverages',
   'created_at': datetime.datetime(2020, 4, 8, 21, 10, 17),
   'screenname': 'PeterJResistor',
   'id': 1247995203182645249,
   'text': 'RT @Shell_Canada: Our priority is the health & safety of
everyone affected by this pandemic, but we want to do more. In the coming weeks,
a...',
   'retweet': 678,
   'favCount': 0,
   'tags': ''},
  {'product Line': 'Food and beverages',
   'created_at': datetime.datetime(2020, 4, 8, 20, 49, 19),
   'screenname': 'TOO_LIVE_MILZ',
   'id': 1247989927729680388,
   'text': 'RT @TOO LIVE MILZ: If you or someone you know doesn't have access to
FOOD & amp; BEVERAGES during this pandemic and are in BROOKLYN let me know...',
   'retweet': 29,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Food and beverages',
   'created_at': datetime.datetime(2020, 4, 8, 20, 27, 20),
   'screenname': 'GahrSEEuh',
   'id': 1247984394838605825,
   'text': 'RT @TOO LIVE MILZ: If you or someone you know doesn't have access to
FOOD & amp; BEVERAGES during this pandemic and are in BROOKLYN let me know...',
   'retweet': 29,
   'favCount': 0.
   'tags': ''},
  {'product_Line': 'Food and beverages',
   'created_at': datetime.datetime(2020, 4, 8, 20, 15),
   'screenname': 'MABeverage',
   'id': 1247981288616865797,
```

```
'text': 'The #foodindustry provides shoppers with the food, beverages and
basic necessities they need to navigate their live... https://t.co/SuIwygegNF',
   'retweet': 0,
   'favCount': 0,
   'tags': ['foodindustry']},
  {'product_Line': 'Food and beverages',
   'created at': datetime.datetime(2020, 4, 8, 20, 4, 17),
   'screenname': 'DenaliMorrinson',
   'id': 1247978594758012935,
   'text': 'RT @ShannonFreshour: Ohio is making it easier for #SNAP families to
get food and get an adequate amount of food through this crisis. \n\nAnd...',
   'retweet': 62,
   'favCount': 0,
   'tags': ['SNAP']},
  {'product_Line': 'Food and beverages',
   'created_at': datetime.datetime(2020, 4, 8, 19, 55, 40),
   'screenname': 'Chelle_Shock3D',
   'id': 1247976424939687936,
   'text': 'RT @TOO LIVE MILZ: If you or someone you know doesn't have access to
FOOD & amp; BEVERAGES during this pandemic and are in BROOKLYN let me know...',
   'retweet': 29,
   'favCount': 0,
   'tags': ''},
  {'product Line': 'Food and beverages',
   'created_at': datetime.datetime(2020, 4, 8, 19, 42),
   'screenname': 'gabrielssmith',
   'id': 1247972986868686848,
   'text': 'RT @TOO_LIVE_MILZ: If you or someone you know doesn't have access to
FOOD & tamp; BEVERAGES during this pandemic and are in BROOKLYN let me know...',
   'retweet': 29,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Food and beverages',
   'created_at': datetime.datetime(2020, 4, 8, 19, 41, 3),
   'screenname': 'atamuotaf',
   'id': 1247972744953765892,
   'text': 'RT @TOO_LIVE_MILZ: If you or someone you know doesn't have access to
FOOD & amp; BEVERAGES during this pandemic and are in BROOKLYN let me know...',
   'retweet': 29,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Food and beverages',
   'created_at': datetime.datetime(2020, 4, 8, 19, 25, 41),
   'screenname': 'brdautremont',
   'id': 1247968879927685120,
   'text': 'RT @Shell Canada: Our priority is the health & safety of
everyone affected by this pandemic, but we want to do more. In the coming weeks,
```

```
a…',
   'retweet': 678,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Food and beverages',
   'created_at': datetime.datetime(2020, 4, 8, 19, 21, 51),
   'screenname': 'JLaCocaina',
   'id': 1247967913472135168,
   'text': 'RT @TOO LIVE MILZ: If you or someone you know doesn't have access to
FOOD & amp; BEVERAGES during this pandemic and are in BROOKLYN let me know...',
   'retweet': 29,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Food and beverages',
   'created_at': datetime.datetime(2020, 4, 8, 19, 8, 35),
   'screenname': 'LizBraunSun',
   'id': 1247964573484843009,
   'text': 'RT @Shell Canada: Our priority is the health & safety of
everyone affected by this pandemic, but we want to do more. In the coming weeks,
a…',
   'retweet': 678,
   'favCount': 0,
   'tags': ''},
  {'product Line': 'Food and beverages',
   'created_at': datetime.datetime(2020, 4, 8, 19, 1, 14),
   'screenname': 'csrlosf35',
   'id': 1247962725281562624,
   'text': 'IRVING, Texas - 7-Eleven Inc. has committed nearly $95 million to
support its franchisees in this crucial time as t... https://t.co/wnDTEv0el1',
   'retweet': 0,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Food and beverages',
   'created_at': datetime.datetime(2020, 4, 8, 18, 45, 6),
   'screenname': 'BlueWaterHL',
   'id': 1247958666688462849,
   'text': "Port Huron's local gem, The Raven Cafe, is still serving up their
great food and beverages during this statewide sh... https://t.co/2yixw1gOPV",
   'retweet': 0,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Food and beverages',
   'created_at': datetime.datetime(2020, 4, 8, 18, 42, 2),
   'screenname': 'charlessss5',
   'id': 1247957891912552450,
   'text': "@TheOnlyOlogi Food and beverages for my two sons, it's crazy out
here broke die here. ",
```

```
'retweet': 0,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Food and beverages',
   'created_at': datetime.datetime(2020, 4, 8, 18, 37, 19),
   'screenname': 'oliviadope',
   'id': 1247956707877289995,
   'text': 'RT @TOO_LIVE_MILZ: If you or someone you know doesn't have access to
FOOD & amp; BEVERAGES during this pandemic and are in BROOKLYN let me know...',
   'retweet': 29,
   'favCount': 0.
   'tags': ''},
  {'product_Line': 'Food and beverages',
   'created_at': datetime.datetime(2020, 4, 8, 18, 32),
   'screenname': 'CityBeatCincy',
   'id': 1247955368082198528,
   'text': 'Ohio Gov. Mike DeWine announced that businesses with liquor permits
can now sell and deliver two packaged drinks pe... https://t.co/EnNeQjbNjp',
   'retweet': 0,
   'favCount': 8,
   'tags': ''},
  {'product_Line': 'Food and beverages',
   'created_at': datetime.datetime(2020, 4, 8, 18, 26, 47),
   'screenname': 'ville siesta',
   'id': 1247954057072787456,
   'text': 'RT @JeetoCheesus: @AITA reddit "You can live with me. But you are
not to enjoy yourself AT ALL for any reason. Do not eat food. Do not cons...',
   'retweet': 6,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Food and beverages',
   'created_at': datetime.datetime(2020, 4, 8, 18, 25, 2),
   'screenname': 'JoshSSchutt',
   'id': 1247953616314306561,
   'text': '@ClueHeywood That's why I stick to @TGIFridays, only the finest food
and beverages',
   'retweet': 0,
   'favCount': 1,
   'tags': ''},
  {'product Line': 'Food and beverages',
   'created at': datetime.datetime(2020, 4, 8, 18, 22, 2),
   'screenname': 'DapaDon',
   'id': 1247952862782554112,
   'text': 'RT @TOO_LIVE_MILZ: If you or someone you know doesn't have access to
FOOD & amp; BEVERAGES during this pandemic and are in BROOKLYN let me know...',
   'retweet': 29,
   'favCount': 0,
```

```
'tags': ''},
  {'product_Line': 'Food and beverages',
   'created_at': datetime.datetime(2020, 4, 8, 18, 18, 49),
   'screenname': 'Yanaa_eff',
   'id': 1247952050543112199,
   'text': 'RT @TOO_LIVE_MILZ: If you or someone you know doesn't have access to
FOOD & amp; BEVERAGES during this pandemic and are in BROOKLYN let me know...',
   'retweet': 29,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Food and beverages',
   'created_at': datetime.datetime(2020, 4, 8, 18, 14, 35),
   'screenname': 'bashdash4',
   'id': 1247950984493428737,
   'text': '15 days until I forego all food and beverages in the name of the
Lord',
   'retweet': 0,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Food and beverages',
   'created_at': datetime.datetime(2020, 4, 8, 18, 11, 49),
   'screenname': 'xShaunieex',
   'id': 1247950291242278913,
   'text': 'RT @TOO LIVE MILZ: If you or someone you know doesn't have access to
FOOD & amp; BEVERAGES during this pandemic and are in BROOKLYN let me know...',
   'retweet': 29.
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Food and beverages',
   'created_at': datetime.datetime(2020, 4, 8, 18, 10, 52),
   'screenname': 'joebagod',
   'id': 1247950050694762503,
   'text': '@SpaceCptZemo You'd fun to hang with and enjoy some beverages, food
and games. \u200d',
   'retweet': 0,
   'favCount': 0,
   'tags': ''},
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Program, offering up to $20K to qualifying food... https://t.co/6mmSoWGSoR',
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They are not going to stay in a caravan for 2 w... https://t.co/TQuD5ntSnr',
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FOOD & amp; BEVERAGES during this pandemic and are in BROOKLYN let me know...',
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months to come, relying on food and beverages that p... https://t.co/BJjZ8ePrM3',
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#team, facility, food/beverages and dedication to c... https://t.co/yrv8sGUz4F',
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Webinar and gain the latest insights on Food and Beve... https://t.co/OtDHirTCaH',
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everyone affected by this pandemic, but we want to do more. In the coming weeks,
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early recommendations has been enacted: To allow alcoholic beverages to 1...',
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everyone affected by this pandemic, but we want to do more. In the coming weeks,
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everyone affected by this pandemic, but we want to do more. In the coming weeks,
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with takeout food purchase 2 takeout beverages... https://t.co/zVJ6Q2MQQ7',
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production, distribution, and marketing of food... https://t.co/fyPpZolIL6',
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BEVERAGES during this pandemic and are in BROOKLYN let me...
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everyone affected by this pandemic, but we want to do more. In the coming weeks,
a...',
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and cordon off the area you have created a food p... https://t.co/qV163knixE',
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artist for the past two years!\n\nI like to draw beve... https://t.co/xmR8COVTpX',
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basic necessities they need to navigate their live... https://t.co/EVAUWvuo8N',
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evening - order online for #contactfree delivery on Friday. Lots of #lo...',
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beverages alters you digestion because it mixes with... https://t.co/xDLqaXU2IH',
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food and beverages a typical household in Puerto Rico p...
https://t.co/EPHK2sYpEX',
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drivers on Wednesday\n\nProviding 24-7 access to fuel, washrooms, food/bever...',
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https://t.co/Q8eQUiI6w7',
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liquid, powder and counterfeit pill forms. It's not a patch those are pr...",
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electrification and automation technology manufactur... https://t.co/5qrUik4gKo',
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shown its #long play from its N5.15 low closing... https://t.co/yxOiFZUrWo',
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own group . Macam tesco starbucks semua under f... https://t.co/rNG2f6P5iG',
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EvER',
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more expensive these days...',
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   'tags': ''},
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Wednesday\n\nProviding 24-7 access to fuel, washrooms, f...
https://t.co/2tPhqA8T8b',
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   'favCount': 5,
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   'created_at': datetime.datetime(2020, 4, 8, 12, 47, 24),
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   'id': 1247868648737386498,
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Citrus Fruits (Oranges, Grapefruit, Lemon & Damp; Lime) and...
https://t.co/xm5qy7x4Kg',
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   'tags': ''},
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   'screenname': 'MediocrisRegina',
   'id': 1247857177110269952,
   'text': '@LeprechaunCurse As their food and beverages arrive she smiles over
at her companion. With Seamus back in her life... https://t.co/iGZ8bG8FQV',
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   'favCount': 0,
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pickers is a partnership between government and Coca-Cola Beverages South ... ',
   'retweet': 2,
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and Pickled Foods\n5) Refined Carbohydrates and Su... https://t.co/ujay1QiSNQ',
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are jointly calling upon governments across the region to ensure the u...',
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   'favCount': 0,
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games, junk food, and an endless supply of caffeinated sugary beverages. Ga...',
   'retweet': 4,
   'favCount': 0,
   'tags': ''},
  {'product Line': 'Food and beverages',
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   'screenname': 'institutiGAP',
   'id': 1247836761310539781,
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industries such as: alcoholic and non-alcoholic bev... https://t.co/ludTVvCrTt',
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   'text': 'TIC Accessories LTD.\n167th Street, Jamaica, New York 11432,
USA.\nTIC Accessories LTD is a well-known Electronic pro...
https://t.co/DINrF5U25t',
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   'favCount': 0,
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'id': 1247969073922748420,
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 , Ps4 , Samsung phones , laptop at affordable prices . \nAccessories...',
   'retweet': 92,
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   'tags': ''},
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that fancy Black Panther helmet for $54.00 (free... https://t.co/g3y9a6pf3G",
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   'favCount': 4,
   'tags': ''},
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MAKERS\nVAPE ACCESSORIES\n\n@\nVape Access;\nVPN on electronic
version.\nDigital clock.\nP...',
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   'favCount': 0,
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   'screenname': 'perfect fold',
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ACCESSORIES\n\n@\nVape Access;\nVPN on electronic version.\nDigital cl...
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   'id': 1247851106232864768,
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        https://t.co/uC6Ickik4V\n\n-\n\m#montblanc... https://t.co/qinAyGtNOE',
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'id': 1247838227790286849,
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#phone_chargersSpring USB Cable for iPhone Charger F... https://t.co/37SYV4uGnR',
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    'phone_glass',
    'phone cables',
    'phone chargersSpring']},
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   'screenname': 'StoreZentrum',
   'id': 1247729303476994048,
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Accessories https://t.co/Ff8VR9QJ7d https://t.co/6zyOK3aZA8',
   'retweet': 0,
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   'id': 1247712666422042624,
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researching and developing #Gaming peripherals... https://t.co/dOBdImYSVb',
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   'favCount': 0,
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   'id': 1247708342039883776,
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purchase/delivery? During lockdown to continue WFH some electro...
https://t.co/BRrfEULtKP',
   'retweet': 0,
   'favCount': 0,
   'tags': ''}],
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@MarlaineDettlo1 @ChrisPBaconLT @ScottRickhoff @Quin4Trump @davidf4444
@TheWickerhead...',
   'retweet': 47,
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'tags': ''},
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weren't around for that you'd love to travel back and experience. \n\nhttps:/...',
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\n -take a dance class\n -cuddle and watch a movie\n -go to an amusement
park/zoo\n ...',
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class\n -cuddle and watch a movie\n -go to an amusement...
https://t.co/lLCk9jw00g',
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@MarlaineDettlo1 @ChrisPBaconLT @ScottRickhoff @Quin4Trump @davidf4444
@TheWickerhead...',
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   'id': 1248011105420455936,
   'text': 'RT @Lynda63986855: @vicksiern @jan_aurora @Shaun_Girk
@MarlaineDettlo1 @ChrisPBaconLT @ScottRickhoff @Quin4Trump @davidf4444
@TheWickerhead...',
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class\n -cuddle and watch a movie\n -go to an amusement...
https://t.co/gtkQhucARD',
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   'id': 1248009367950995459,
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class\n -cuddle and watch a movie\n -go to an amusement...
https://t.co/zAOfFtrVZW',
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   'favCount': 9,
   'tags': ''},
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but you could say the same thing about all enter... https://t.co/DA9QAcI6Iy',
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stadia will later. I can see pubs being earlier... https://t.co/2eD32u5EeR',
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weren't around for that you'd love to travel back and experience. \n\nhttps:/...',
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   'id': 1248005356690653185,
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that you'd love to travel back and experience. \n\nhttps://t.co/ON55IWC6bz',
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annually to state and local governments-is in a freefall triggered by ... ',
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   'favCount': 0,
   'tags': ''},
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what is in front of us. It will take a month to start to bend the curv...',
   'retweet': 13.
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   'id': 1248002525539610624,
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wonderful ambassador for horse racing and sports! Have a safe travel bac...',
   'retweet': 5,
   'favCount': 0,
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   'id': 1247998483510026241,
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racing live from the sprint car capital of the world... https://t.co/69vHKMXjGy',
   'retweet': 0,
   'favCount': 2,
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EFL to make a EFL2 north and EFL2 south, with national league just a nor ... ',
   'retweet': 116,
   'favCount': 0,
   'tags': ''},
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and travel industry. What I need are sponsors who are who are looking f...',
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   'id': 1247985909464805383,
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order to trap brown people in their cramped neighb... https://t.co/BAh1jWYWYa',
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been 1) not spreading COVID to new communities an... https://t.co/MG8CvDy7Ao',
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Shearer and Mark Hughes were on crud',
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   'id': 1247985019152408576,
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wonderful ambassador for horse racing and sports! Have a safe travel bac...',
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coronavirus economics reference travel costs as a... https://t.co/S3zgtoc1Al",
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   'tags': ''},
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   'id': 1247984272482414605,
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travel (and sports & amp; concerts) back in january, e... https://t.co/nUuug2X7jJ',
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   'favCount': 2,
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remain for a extended period of time to ensure t... https://t.co/4B1s5IZi2y',
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   'tags': ''},
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'id': 1247982621260480514,
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UK job market - Yahoo Sports https://t.co/6HIaYPDfye #UK #Travel',
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   'id': 1247981874007248898,
   'text': 'RT @ASWISports: The term "identity foreclosure" has become all too
relevant during this pandemic and especially in sports. https://t.co/BqH...',
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   'favCount': 0,
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   'text': 'RT @JzwTravel: JZW Travel not only books #vacations but we also book
#business travel as well as #sports, #religious and #club #travels. Co...',
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    'sports',
    'religious',
    'club',
    'travels']},
  {'product_Line': 'Sports and travel',
   'created_at': datetime.datetime(2020, 4, 8, 19, 59, 1),
   'screenname': 'JzwTravel',
   'id': 1247977265557901314,
   'text': 'JZW Travel not only books #vacations but we also book #business
travel as well as #sports, #religious and #club... https://t.co/rLhCABIjUY',
   'retweet': 1,
   'favCount': 0,
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   'id': 1247971106302107653,
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                                                             He pulls out a
travel bag, taking out tight black yoga pants and a spo...
https://t.co/hvlgQuBMj5',
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@CFBPlayoff Nobody outside of Memphis wanted to see Mem...
https://t.co/fpu6giWNlH',
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   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Sports and travel',
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   'screenname': 'sawarnspeaks',
   'id': 1247956067977285633,
   'text': "At this point, we can make changes that wouldn't require any extra
travel, unless there is some important lab/sport... https://t.co/AuPA9j4xKE",
   'retweet': 0,
   'favCount': 0,
   'tags': ''},
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   'created_at': datetime.datetime(2020, 4, 8, 18, 27, 45),
   'screenname': 'rene4the5',
   'id': 1247954299348488193,
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always breake records. Freeze Travel to and fro... https://t.co/Xsd4rNs2Fg',
   'retweet': 0,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Sports and travel',
   'created_at': datetime.datetime(2020, 4, 8, 18, 21, 36),
   'screenname': 'SugdenSteve',
   'id': 1247952751352561665,
   'text': '@DentonClark17 Well to be fair...sports does make economy
go...travel tickets gear food usually stop to eat and ...
https://t.co/ytOhPCB8IN',
   'retweet': 0,
   'favCount': 1,
   'tags': ''},
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sports administrators are allowed to lead organiza... https://t.co/lrhu3HRtyS',
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need to fundraise soon (and by the sounds of it t... https://t.co/VTHcFRmhKC',
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worse in new week or two deaths wise I fully believe by end of April/early ma...',
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or two deaths wise I fully believe by end of April... https://t.co/NCv7UBJNAl',
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stadiums, pubs, beaches, and air travel to name a few',
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TVs have every most TVs on the games and at the s... https://t.co/FokHVszSV5',
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expert @LeeAbbamonte today on IG Live T 1pm PT/ 4pm ET. He's been to everyon...',
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messing about over Harbs. Assuming this is esse... https://t.co/2RwcbDcD1X',
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today on IG Live T 1pm PT/ 4pm ET. He's been to eve... https://t.co/711ko3G255',
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playing and that travel thing',
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were even more transit and (b) we stopped sched... https://t.co/M2uRUDlBqE',
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those who travel the path have always looked b... https://t.co/4PfNkQpTAV',
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Lanzarote, lies a true paradise of sports, wellness and relaxation. Some say
it...',
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wonderful ambassador for horse racing and sports! Have a safe travel bac...',
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in real life situations for you to learn in prac... https://t.co/xyub7kQ2Sp',
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features (which took weeks and hours and cross count... https://t.co/HAffPiKI2h',
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Lanzarote, lies a true paradise of sports, wellness and relaxation. Some say
it...',
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and have deep late night talks with my friends and play sports and go t...",
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hospitality programs by following our small company Firs...
https://t.co/MJnjfcuQqX',
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in real life situations for you to learn in prac... https://t.co/etbwxa1132',
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ensure that athletes can't easily transmit the viru... https://t.co/hn9w9nk0kj',
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hearted fun. Here's your Sports Travel Internatio... https://t.co/vNsUbzCDVh",
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hoop. Can't play football. Can't workout. Can't sh... https://t.co/Ry5HSdxqzk',
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schools must teach again. Whether it\'s travel or sports or live entertain...',
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Lanzarote, lies a true paradise of sports, wellness and relaxation. Some say
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uplifting sign both economically and just in gene... https://t.co/MAV6E12mp1',
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@stateofthenewy1 @ginisangpepe @AJTheManChild... https://t.co/j4Ivsdknte',
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https://t.co/v7SC1lHiyH via @YouTube #travel #China #coronavirus #CoronaOutbreak
#m...',
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wonderful ambassador for horse racing and sports! Have a safe travel bac...',
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water sports, racket sports, nature sports, basketbal... https://t.co/12yav8zEv8',
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ambassador for horse racing and sports! Have a safe t... https://t.co/ycMS1HnxAB',
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paradise of sports, wellness and relaxation. Some... https://t.co/EjhAF48DqW',
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boating and fishing are also plentiful.',
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they safely can (SAFELY) is one of the things tha... https://t.co/8bUIzLCxGy',
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travel softball for 6 years and will continue my... https://t.co/77DsSONOaB',
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non-essential travel. Racing can be run locally... https://t.co/fJyOUDqhgx',
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from a purely financial standpoint. There are onl... https://t.co/GcKVzHfa9W',
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Pandemic\n\n1. Travel and tourism\n2. Bars and restaurants\n3. Live entertain...',
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travel guides, multilingual interpretation, he... https://t.co/Snb20SyR7f',
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   'id': 1247810521568407552,
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Smartphone Adapter and Tripod Dual Focus for Outdoor Spo...
https://t.co/hZxWwIOLkW',
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just three confirmed coronavirus cases so far, Lithuania introduced yesterd...',
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coronavirus cases so far, Lithuania introduced y... https://t.co/G8vG3czHyx',
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   'id': 1247783356219060227,
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Clear Binoculars for Bird Watching Travel Sights... https://t.co/pzDxZMlk1c',
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   'screenname': 'NassahKapur',
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other large gatherings (sports events) will be p... https://t.co/Uet6a2uH8K",
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   'screenname': 'RonMcGinnis9',
   'id': 1247757567092117504,
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advisory until April 30 issued by the governor ,... https://t.co/HgDLsMZxmg',
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'id': 1247757349911015424,
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steering wheel. But that doesn't meant the WHO is of... https://t.co/kyOTqyx72D",
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and have deep late night talks with my friends and play sports and go t ... ",
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@NetsGov! Interesting discussion about travel challenges and solutions a...',
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revenue annually to state and local governments-is in a freefall triggered by...',
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coronavirus are optimistic their teams will remain strong during their
breaks....',
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   'screenname': 'InStyle',
   'id': 1248007100040531971,
   'text': 'A total upheaval of life as we know it - and social distance from
the triggers that might push people to drink too... https://t.co/pTLrEUe2pY',
   'retweet': 2,
   'favCount': 8,
   'tags': ''},
  {'product Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 21, 57, 23),
   'screenname': '4Chrissy0',
   'id': 1248007055178227712,
   'text': '@FLOTUS Schisandra berries fight SARS Coronavirus 19 too. Look it
up, they are good for many health and beauty issues, and harmless.',
   'retweet': 0,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 21, 56, 18),
   'screenname': 'tea_natasha',
   'id': 1248006781520904192,
   'text': 'The simplicity of soothing Spearmint and lightly floral Rose Hip
blend is a simplistic blend of balance and beauty.... https://t.co/EtbGIuqei1',
   'retweet': 2,
   'favCount': 1,
   'tags': ''},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 21, 54, 56),
   'screenname': 'Raul38557638',
   'id': 1248006438586167296,
   'text': 'RT @bay art: It's official, nature has wide-ranging health benefits,
and also it is good for your soul. Famous nature quotes will make you...',
```

```
'retweet': 4,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 21, 51, 36),
   'screenname': 'AALawnLandscape',
   'id': 1248005598072864768,
   'text': 'Easy to Follow Tips on Watering Your Lawn For Optimal Lawn Health,
Growth, and Beauty! See Videos...\n\nLEARN MORE...... https://t.co/xz1t7SgJ3w',
   'retweet': 0,
   'favCount': 0.
   'tags': ''},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 21, 47, 6),
   'screenname': 'Beauty_Rushhhh',
   'id': 1248004465631752192,
   'text': 'They are giving us a health screening and checking our temperature
everyday before we begin our shift . Shit is getting real lol',
   'retweet': 0,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 21, 44, 23),
   'screenname': 'ah marachy',
   'id': 1248003782664785921,
   'text': 'RT @KelechiAttamah: Law firms are already issuing opinions on
covid-19 and employment contracts to their corporate clients. The beauty of 1...',
   'retweet': 4,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 21, 40, 11),
   'screenname': 'tania_hanyu',
   'id': 1248002728082567168,
   'text': 'Price Blackview R6 3/32gb 5.5″ android 6 free jelly case and
screen protector Cash On delivery Las Pinas Philiphines - #Health & amp;
Beauty',
   'retweet': 0,
   'favCount': 0.
   'tags': ['Health']},
  {'product Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 21, 39, 31),
   'screenname': '_ataei',
   'id': 1248002561090539521,
   'text': 'RT @rasuli_alireza: All people around the world are waiting for The
Son of Man who brings a world without war, poverty, disease, or polluti...',
   'retweet': 7,
```

```
'favCount': 0,
   'tags': ''},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 21, 35, 58),
   'screenname': 'ReGenFriends',
   'id': 1248001664994299905,
   'text': '"Upon this handful of soil, our survival depends. Husband it and it
will grow our food, our fuel, and our shelter a... https://t.co/iDlp9Lu1nt',
   'retweet': 0,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 21, 28, 24),
   'screenname': 'tmj_rip_adv',
   'id': 1247999760176254976,
   'text': "Want to work at CVS Health? We're hiring in #Woonsocket, RI! Click
the link in our bio for details on this job and... https://t.co/GGbVymQGrR",
   'retweet': 0,
   'favCount': 0,
   'tags': ['Woonsocket']},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 21, 20),
   'screenname': 'kaelynforde',
   'id': 1247997648554135553,
   'text': '"Everything I use to hold myself accountable: work, routine,
exercise and self-care routines, it was all swept out... https://t.co/3T5k6NQeEK',
   'retweet': 0,
   'favCount': 4,
   'tags': ''},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 21, 14, 6),
   'screenname': 'ccthewriter1',
   'id': 1247996161639813125,
   'text': "RT @CrystalHoshaw: Hi #writingcommunity, I'm new to Twitter and
looking to hire seasoned writers for health content. Please add me and shar ... ",
   'retweet': 15,
   'favCount': 0,
   'tags': ['writingcommunity']},
  {'product Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 21, 13, 22),
   'screenname': 'gd959098',
   'id': 1247995978147409920,
   'text': "RT @CrystalHoshaw: Hi #writingcommunity, I'm new to Twitter and
looking to hire seasoned writers for health content. Please add me and shar ... ",
   'retweet': 15,
   'favCount': 0,
   'tags': ['writingcommunity']},
```

```
{'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 21, 11, 52),
   'screenname': 'Crisp_Mag',
   'id': 1247995599544336385,
   'text': 'Why The Mind and Body Don't Get Along During Quarantine
https://t.co/xwhev2IL8w',
   'retweet': 0,
   'favCount': 1,
   'tags': ''},
  {'product_Line': 'Health and beauty',
   'created at': datetime.datetime(2020, 4, 8, 21, 11, 44),
   'screenname': 'Carols_Garcia',
   'id': 1247995565620723712,
   'text': 'SUPER EXCITED!! I joined the Arbonne fam when I found out that I
could thrive doing something I'm already passiona... https://t.co/SloBzAEX78',
   'retweet': 0,
   'favCount': 1,
   'tags': ''},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 21, 7, 52),
   'screenname': 'CeciliaDaForno1',
   'id': 1247994595008483328,
   'text': 'What 3 things are you doing for your mental health? Answer /
nominate 3 others: @JulieHe10511078 @And I88... https://t.co/U26LvaS1Ff',
   'retweet': 0,
   'favCount': 2,
   'tags': ''},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 21, 5, 57),
   'screenname': 'BoBAUall',
   'id': 1247994111573078017,
   'text': 'Professional Titanium Microneedle Derma Needle Roller for Acne
Scars, Face, B V3U9 https://t.co/4up18DwT20 https://t.co/XcSmAJfZZ1',
   'retweet': 0,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 21, 1, 46),
   'screenname': 'KatinaParon',
   'id': 1247993059683557380,
   'text': "RT @CrystalHoshaw: Hi #writingcommunity, I'm new to Twitter and
looking to hire seasoned writers for health content. Please add me and shar ... ",
   'retweet': 15,
   'favCount': 0,
   'tags': ['writingcommunity']},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 21, 0, 43),
```

```
'screenname': 'Greenhouses1',
   'id': 1247992793198465029,
   'text': 'The Garden is a place for the health of mind, body and soul. ~ A
place of Beauty, a place of celebration and appre... https://t.co/iuvDmJGHyw',
   'retweet': 0,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Health and beauty',
   'created at': datetime.datetime(2020, 4, 8, 21, 0, 20),
   'screenname': 'ElleCanada',
   'id': 1247992699661189121,
   'text': 'At-Home Workout Equipment That Won't Cost a Fortune
https://t.co/NHH21nheWX',
   'retweet': 0,
   'favCount': 2,
   'tags': ''},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 21, 0, 8),
   'screenname': 'ArnicareUSA',
   'id': 1247992647517700096,
   'text': '#Diet, #exercise, and #sleep all affect how you look.
https://t.co/tuie8x4BZi',
   'retweet': 0,
   'favCount': 0,
   'tags': ['Diet', 'exercise', 'sleep']},
  {'product Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 20, 59, 15),
   'screenname': 'honkide',
   'id': 1247992423554281472,
   'text': 'RT @playbill: .@ABTBallet has canceled its 2020 spring season at the
@MetOpera, including productions of Romeo and Juliet, Swan Lake, and T...',
   'retweet': 6,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 20, 54, 56),
   'screenname': 'weischoice',
   'id': 1247991340752932865,
   'text': "RT @CrystalHoshaw: Hi #writingcommunity, I'm new to Twitter and
looking to hire seasoned writers for health content. Please add me and shar ... ",
   'retweet': 15,
   'favCount': 0,
   'tags': ['writingcommunity']},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 20, 54, 31),
   'screenname': 'tomwlsn31',
   'id': 1247991233374535681,
```

```
'text': 'RT @realTonyDudley: https://t.co/mAL9Jhecjl Is one of the Best
Beauty and Health Products I have ever run across #COVID19 #HealthyLi...',
   'retweet': 2,
   'favCount': 0,
   'tags': ['COVID19']},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 20, 52, 32),
   'screenname': 'BidorBuy247',
   'id': 1247990734906634245,
   'text': 'Beard Apron Cape Beard Trimming Bib for Men Shaving & Dair
Catcher, Non-Stick https://t.co/nL51gxkzQV https://t.co/lDioeDU6JR',
   'retweet': 0,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 20, 50, 10),
   'screenname': 'PRJournoRequest',
   'id': 1247990140699643910,
   'text': "RT @RDeevoy: Looking for strong real life health and/or beauty
stories for a women's mag. 35+ please! Get in touch if you've got something...",
   'retweet': 4,
   'favCount': 0,
   'tags': ''},
  {'product Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 20, 49, 38),
   'screenname': 'Shahinaz6',
   'id': 1247990003579437063,
   'text': 'Guys tell me what do you use for your pets (health and care, food,
beauty, everything)',
   'retweet': 0,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 20, 49, 34),
   'screenname': 'ladyboarder9669',
   'id': 1247989989075324928,
   'text': 'RT @ladyboarder9669: Natural, easy, at home recipes to boost immuity
for yourself and home during Covid-19 #covid19 #immunityboost #home #e...',
   'retweet': 3.
   'favCount': 0,
   'tags': ['covid19', 'immunityboost', 'home']},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 20, 48, 13),
   'screenname': 'se23_tweets',
   'id': 1247989648263127040,
   'text': 'RT @FHSoc: On your next health walk look up, refocus and see the
beauty around us. Become a #TextureHunterGatherer like local artist @LizAt...',
```

```
'retweet': 5,
   'favCount': 0,
   'tags': ['TextureHunterGatherer']},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 20, 47, 4),
   'screenname': 'JournalistJill',
   'id': 1247989360940777473,
   'text': 'RT @lynnettepeck: @JournalistJill @DailyMailUK I wrote about women
and hair loss, and offered solutions, for @TheSun in the Nineties. They...',
   'retweet': 1,
   'favCount': 0.
   'tags': ''},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 20, 45, 25),
   'screenname': 'seuoceancleanup',
   'id': 1247988945805287424,
   'text': 'The answer is true! #Microplastics are small plastic pieces less
than five millimeters long which can be harmful to... https://t.co/qEg3tF0r01',
   'retweet': 0,
   'favCount': 0,
   'tags': ['Microplastics']},
  {'product Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 20, 43, 32),
   'screenname': 'Honeysblood',
   'id': 1247988470938812417,
   'text': "RT @RDeevoy: Looking for strong real life health and/or beauty
stories for a women's mag. 35+ please! Get in touch if you've got something...",
   'retweet': 4,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 20, 43, 11),
   'screenname': 'lynnettepeck',
   'id': 1247988382044733451,
   'text': '@JournalistJill @DailyMailUK I wrote about women and hair loss, and
offered solutions, for @TheSun in the Nineties.... https://t.co/oF05S4pDkk',
   'retweet': 1,
   'favCount': 1,
   'tags': ''},
  {'product Line': 'Health and beauty',
   'created at': datetime.datetime(2020, 4, 8, 20, 41, 3),
   'screenname': 'LizAtkin',
   'id': 1247987846473973762,
   'text': 'RT @FHSoc: On your next health walk look up, refocus and see the
beauty around us. Become a #TextureHunterGatherer like local artist @LizAt...',
   'retweet': 5,
   'favCount': 0,
```

```
'tags': ['TextureHunterGatherer']},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 20, 38, 42),
   'screenname': 'buynbuyshop',
   'id': 1247987253030408194,
   'text': '#health #clothing #gadget #beauty #watch \nUS$ 52.20 and FREE
Shipping BOBO BIRD Men Wooden Mechanical Luminous Watc...
https://t.co/xiu9GydX8Q',
   'retweet': 0,
   'favCount': 0,
   'tags': ['health', 'clothing', 'gadget', 'beauty', 'watch']},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 20, 35, 2),
   'screenname': 'SomethingDigitl',
   'id': 1247986330782531586,
   'text': 'SD knows the #beauty #health, & #wellness sector. Some time ago
we addressed challenges these brands face & amp; we thin ...
https://t.co/L5APKvTvlF',
   'retweet': 0,
   'favCount': 2,
   'tags': ['beauty', 'health', 'wellness']},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 20, 32, 15),
   'screenname': 'drjessigold',
   'id': 1247985629033639936,
   'text': 'RT @kaelynforde: "Having to face such uncertainty in such a raw way
has been such a great learning and growth opportunity for me," @Lombard...',
   'retweet': 1,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 20, 31, 35),
   'screenname': 'valiant_beauty',
   'id': 1247985461085298688,
   'text': 'RT @lindahoguttu: A friend has just been released from Mbagathi
hospital She is now free of #coronavirus\nSo People, this is a happy me an...',
   'retweet': 406,
   'favCount': 0,
   'tags': ['coronavirus']},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 20, 27, 49),
   'screenname': 'biyounaruhodo',
   'id': 1247984515626045440,
   'text': '
                  .....\nhttps://t.co/vozL0d7g7l',
   'retweet': 0,
   'favCount': 0,
   'tags': ''},
```

```
{'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 20, 23, 42),
   'screenname': 'AH_Fasihi',
   'id': 1247983477473107968,
   'text': 'O son of Hussein, savior of the world\nThe whole world is waiting
for your divine rule, which is full of health, jus... https://t.co/EByv2dMrQ8',
   'retweet': 0,
   'favCount': 1,
   'tags': ''},
  {'product_Line': 'Health and beauty',
   'created at': datetime.datetime(2020, 4, 8, 20, 19, 15),
   'screenname': 'HummerSilver',
   'id': 1247982360940986368,
   'text': '8 Weird Things That Can Happen to Your Fingernails-and What They Say
About Your Health https://t.co/HL77qN6au7 https://t.co/6kVJpRYccI',
   'retweet': 0,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 20, 17, 43),
   'screenname': 'UtahFamilyPharm',
   'id': 1247981973043281922,
   'text': 'Hurricane Family Pharmacy knows that helping you feel better about
your health and beauty is a good way to help you... https://t.co/invxk3ZNDU',
   'retweet': 0,
   'favCount': 0,
   'tags': ''},
  {'product_Line': 'Health and beauty',
   'created_at': datetime.datetime(2020, 4, 8, 20, 15, 8),
   'screenname': 'mdad8200',
   'id': 1247981321378500609,
   'text': '@RealWillMunny @FrankLuntz @DiamondandSilk The beauty of trolling is
you can say ridiculous with no thought or conc... https://t.co/zCER9ryB2y',
   'retweet': 0,
   'favCount': 0,
   'tags': ''}]}
```

1.7.1 Breaking The dataset into tables

1.7.2 Branch Table

```
[17]: #Branch Main Table
Branch = pd.DataFrame()
Branch[['Branch_Id','City']] = supermarket_data[['Branch','City']]
Branch = Branch.drop_duplicates()
Branch = Branch.reset_index(drop = True)
Branch.head()
```

```
[17]: Branch_Id City
     0      A Yangon
     1      C Naypyitaw
     2      B Mandalay
```

1.7.3 Product Table

```
[18]:
                   Invoice ID
                                          Product_Line Unit_Price Branch_Id
      Product_Id
      0
                  750-67-8428
                                     Health and beauty
                                                             74.69
                                                                            Α
                                                                            С
      1
                  226-31-3081 Electronic accessories
                                                             15.28
                                    Home and lifestyle
                                                             46.33
                  631-41-3108
      3
                  123-19-1176
                                     Health and beauty
                                                             58.22
                                                                            Α
                  373-73-7910
                                     Sports and travel
                                                             86.31
```

1.7.4 ProductLine Table

```
[19]: #Product Line
ProductLine = pd.DataFrame()
ProductLine[['Product_Line']] = supermarket_data[['Product line']]
ProductLine = ProductLine.drop_duplicates()
ProductLine = ProductLine.reset_index(drop = True)
ProductLine.head()
```

```
[19]: Product_Line

0 Health and beauty

1 Electronic accessories

2 Home and lifestyle

3 Sports and travel

4 Food and beverages
```

1.7.5 Ratings Table

```
[20]:
                            Product_Line Customer_Rating Branch_Id
     Ratings_Id
                       Health and beauty
                                                     74.69
                                                                   Α
      0
      1
                  Electronic accessories
                                                     15.28
                                                                   С
      2
                      Home and lifestyle
                                                                   Α
                                                     46.33
      3
                       Health and beauty
                                                                   Α
                                                     58.22
                       Sports and travel
                                                     86.31
                                                                   Α
```

```
1.7.6 Customer Table
[21]: #Customer
      Customer = pd.DataFrame()
      #Customer[['First_Name', 'Last_name', 'PhoneNumber_1', 'PhoneNumber_2', 'Email', 'Gender', 'Customer
       →supermarket_data[['first_name', 'last_name', 'phone1', 'phone2', 'email', 'Gender', 'Customer_
       → type', 'Total', 'Address', 'STATE', 'CITY']]
      Customer[['Invoice_Id','First_Name','Last_name','PhoneNumber_1','PhoneNumber_2','Email','Gende
       ⇒= supermarket_data[['Invoice_
       \hookrightarrow ID', 'first_name', 'last_name', 'phone1', 'phone2', 'email', 'Gender', 'Customer_\
       →type','Total','address','STATE','CITY','Product line']]
      Customer.index.name ="Customer_Id"
      Customer.head()
[21]:
                    Invoice_Id First_Name Last_name PhoneNumber_1 PhoneNumber_2 \
      Customer_Id
      0
                   750-67-8428
                                     James
                                                Butt 504-621-8927 504-845-1427
      1
                   226-31-3081 Josephine
                                             Darakjy 810-292-9388 810-374-9840
      2
                   631-41-3108
                                       Art
                                              Venere 856-636-8749 856-264-4130
      3
                                     Lenna Paprocki 907-385-4412 907-921-2010
                   123-19-1176
                                              Foller 513-570-1893 513-549-4561
      4
                   373-73-7910
                                   Donette
                                            Fmail Gender Customer Type \
```

	Email	Gender	Customer_Type	
Customer_Id				
0	jbutt@gmail.com	Female	Member	
1	josephine_darakjy@darakjy.org	Female	Normal	
2	art@venere.org	Male	Normal	
3	lpaprocki@hotmail.com	Male	Member	
4	donette.foller@cox.net	Male	Normal	

Amount Billed

	-			
Customer_Id				
0	548.9715	6649 N Blue Gum St	LA	New Orleans
1	80.2200	4 B Blue Ridge Blvd	MI	Brighton
2	340.5255	8 W Cerritos Ave #54	NJ	Bridgeport
3	489.0480	639 Main St	AK	Anchorage
4	634.3785	34 Center St	OH	Hamilton

Address STATE

CITY \

Product_Line

```
Customer_Id

0 Health and beauty
1 Electronic accessories
2 Home and lifestyle
3 Health and beauty
4 Sports and travel
```

1.7.7 Payment Table

```
[22]: #Payment
Payment = pd.DataFrame()
Payment[['Invoice_Id','Total-Amount','Date_Of_Purchase','Time','Payment_Type']]

⇒= supermarket_data[['Invoice ID','Total','Date','Time','Payment']]
Payment.head()
```

```
[22]:
         Invoice_Id Total-Amount Date_Of_Purchase
                                                     Time Payment_Type
     0 750-67-8428
                         548.9715
                                                               Ewallet
                                            1/5/19 13:08
     1 226-31-3081
                          80.2200
                                            3/8/19 10:29
                                                                  Cash
     2 631-41-3108
                         340.5255
                                            3/3/19 13:23 Credit card
     3 123-19-1176
                                           1/27/19 20:33
                                                               Ewallet
                         489.0480
     4 373-73-7910
                                            2/8/19 10:37
                         634.3785
                                                               Ewallet
```

1.7.8 Tax Table

```
[23]: #Tax
    Tax = pd.DataFrame()
    Tax[['Tax','Payment_Invoice']] = supermarket_data[['Tax 5%','Invoice ID']]
    Tax.head()
```

```
[23]: Tax Payment_Invoice
0 26.1415 750-67-8428
1 3.8200 226-31-3081
2 16.2155 631-41-3108
3 23.2880 123-19-1176
4 30.2085 373-73-7910
```

1.7.9 State Table

```
[24]: #State
State = pd.DataFrame()
State[['State']] = supermarket_data[['STATE']]
State = State.drop_duplicates()
State = State.reset_index(drop = True)
State.index.name = "State Id"
```

```
State.head()
[24]:
                                             State
                  State Id
                  0
                                                      LA
                                                      ΜI
                  1
                  2
                                                      NJ
                  3
                                                       ΑK
                  4
                                                      OH
                1.7.10 Cost Of Goods Table
[25]: #Cost of Goods Sold
                  COG = pd.DataFrame()
                  COG[['Total_Billed_Amount']] = supermarket_data[['Total']]
                  COG.head()
[25]:
                           Total_Billed_Amount
                                                            548.9715
                  1
                                                               80.2200
                  2
                                                             340.5255
                  3
                                                             489.0480
                                                             634.3785
                1.7.11 Gross Details Table
[26]: #Gross Details
                  Gross_Details = pd.DataFrame()
                  \#Gross\_Details[['Cost\_Of\_Goods\_Sold', 'Gross\_Income', 'Gross\_Margine\_Percentage', 'Payment\_Invoided and the property of the 
                    →= supermarket_data[['cogs', 'gross income', 'gross margine_
                    →percentage', 'Invoice ID']]
                  Gross_Details[['Cost_Of_Goods_Sold','Gross_Income','Gross_Margin_Percentage','Payment_Invoice]
                    ⇒= supermarket_data[['cogs','gross income','gross margin percentage','Invoice_
                    →ID']]
                  Gross_Details.index.name = "Gross_Details_Id"
                  Gross_Details.head()
[26]:
                                                                        Cost_Of_Goods_Sold Gross_Income Gross_Margin_Percentage \
                  Gross_Details_Id
                  0
                                                                                                             522.83
                                                                                                                                                     26.1415
                                                                                                                                                                                                                              4.761905
                  1
                                                                                                                76.40
                                                                                                                                                       3.8200
                                                                                                                                                                                                                              4.761905
                  2
                                                                                                             324.31
                                                                                                                                                     16.2155
                                                                                                                                                                                                                              4.761905
                  3
                                                                                                             465.76
                                                                                                                                                     23.2880
                                                                                                                                                                                                                              4.761905
                                                                                                             604.17
                                                                                                                                                     30.2085
                                                                                                                                                                                                                              4.761905
```

Payment_Invoice_Id

Gross_Details_Id

0	750-67-8428
1	226-31-3081
2	631-41-3108
3	123-19-1176
4	373-73-7910

2 NoSQL Design explaination

We want to store the Data in a mongoDB database. In mongoDB, data is stored in the form of collections and documents. MongoDb stores the data in the form of Key value pairs.

MongoDB is an opensource document database. It is written in C++. MongoDB is cross platformm and provides high perfomance, high availability and easy scalability. MongoDB works on the concept of collection and document. MongoDB doesnt use table and rows to store data but instead it uses collection of JSON like documents. Documents store embedde fields so that related data can be stored within them. It is schemaless so be do not need to specift the column for the database befor einserting document withing them.

Collections It is a collection of documents and is equivalent to tables in RDBMS table. A collection exists within a single database. documents within the collection can have documents with different fields however mostly all the documents in the collection are related to eachother.

Documents Documents have a set of key value pairs. Documents have Dynamic schema which means documents in the same schema do not have same fields or structure. Different fields in the collection document may hold different values.

Design Decisions The database is designed by considering the productline at the top level of the hierarchy. The ProductLine Database stores documents of every ProductLine. Each of these documents store information about all the customers who have purchased soemthing in the productline category and the tweets that are related to the productLine.

ProductLineDoc This collection has documents that are segerated according to the product-lines. The structure of each of these documents is - ###### ProductLine: Name of the ProductLine ###### customerDictionary: Information about the customers, ###### Product-Line_Rating: ProductLine rating by customers ###### ProductTweet: Tweets associated with the productline

Customer Dictionary This disctionary stores information about the customers who have purchased soemthing in the product Line caregory. This distionary also contains payment details about the customers. Things included in this dictionary are - 'First_Name', 'Last_name', 'Phone Number_1', 'Phone Number_2', 'Email', 'Gender', 'Customer_Type', 'Amount_B

ProductTweets This dictionary stores the tweets that are related to the productline. This dictionary also stores all the hashtags that are associated with the tweet. Information stored in this dictionary - "product_Line", "created_at", "screenname", "id", "text", "retweet", "favCount", "tags"

```
[27]: ProductLineDoc = []
      ProductLine_Dict = {}
      ProductLineSalesDict = {}
      customerDict = {}
      TwitterPosts = {}
      ProductLine_rating ={}
      productTweet = []
      Customer_Ratings = []
      #Customer[['First_Name', 'Last_name', 'PhoneNumber_1', 'PhoneNumber_2', 'Email', 'Gender', 'Customer
       → supermarket_data[['first_name', 'last_name', 'phone1', 'phone2', 'email', 'Gender', 'Customen_
       → type', 'Total', 'address', 'STATE', 'CITY', 'Product line']]
      FinalDictionary = []
      for i in range(len(ProductLine)):
          for c in range(len(Customer)):
              #Store customer details and the details of their payments in JSON
              if Customer["Product_Line"][c] == ProductLine["Product_Line"][i]:
                  customerDict = {
                      "FirstName":Customer["First_Name"][c],
                      "LastName":Customer["Last_name"][c],
                      "Address": Customer ["Address"] [c],
                      "PhoneNumber1":Customer["PhoneNumber_1"][c],
                      "PhoneNumber2":Customer["PhoneNumber 2"][c],
                      "email":Customer["Email"][c],
                      "gender":Customer["Gender"][c],
                      "customer_type":Customer["Customer_Type"][c],
                      "amount_billed":Customer["Amount_Billed"][c],
                      "state":Customer["STATE"][c],
                      "city":Customer["CITY"][c],
                  for p in range(len(Payment)):
                      if Payment["Invoice_Id"][p] == Customer["Invoice_Id"][c]:
                          customerDict["Total_amount"] = Payment["Total-Amount"][p]
                          customerDict["Date_Of_Purchase"] =_
       →Payment["Date_Of_Purchase"][p]
                          customerDict["Time"] = Payment["Time"][p]
                          customerDict["Payment_Type"] = Payment["Payment_Type"][p]
          #Store the ratings for each of the Product Lines
          for r in range(len(Ratings)):
              if Ratings["Product_Line"][r] == ProductLine["Product_Line"][i]:
                  Customer_Ratings.append(Ratings["Customer_Rating"][r])
          productTweet = productLinesDictionary[ProductLine["Product_Line"][i]]
          mainDict = {
                  "ProductLine": ProductLine["Product_Line"][i],
```

2.0.1 The Size of the ProductLine Document

```
[28]: len(ProductLineDoc)
```

[28]: 6

2.0.2 Storing the collection created in MongoDB

```
[29]: client = MongoClient('localhost', 27017)
```

```
[30]: print(client.list_database_names())
```

```
['MEANStackDB', 'MoviesDB', 'PleaseDB', 'ProductLine_Database', 'UserdataDB', 'admin', 'config', 'customers', 'local', 'mylib', 'nodeauth', 'userdb']
```

2.0.3 Deleting the database if it already exists

```
[31]: client["ProductLine_Database"]['ProductLine'].drop()
```

2.0.4 Checking if the database is deleted

```
[32]: print(client.list_database_names())
```

```
['MEANStackDB', 'MoviesDB', 'PleaseDB', 'UserdataDB', 'admin', 'config', 'customers', 'local', 'mylib', 'nodeauth', 'userdb']
```

2.0.5 Creating the database -> ProductLine_Database and the database collection -> ProductLine

```
[33]: mydatabase = client["ProductLine_Database"]
mycol = mydatabase["ProductLine"]
x = mycol.insert_many(ProductLineDoc)
print(client.list_database_names())
```

```
['MEANStackDB', 'MoviesDB', 'PleaseDB', 'ProductLine_Database', 'UserdataDB', 'admin', 'config', 'customers', 'local', 'mylib', 'nodeauth', 'userdb']
```

2.0.6 Retriving all the data stored in MongoDB

```
[34]: for pl in mycol.find({}):
          pprint.pprint(pl)
     {'ProductLine': 'Health and beauty',
      'ProductLine_Rating': {},
      ' id': ObjectId('5e8e5532b5101d7d130493c7'),
      'customerDictionary': {'Address': '9166 Devon St #905',
                              'Date_Of_Purchase': '1/29/19',
                              'FirstName': 'Avery',
                              'LastName': 'Veit',
                              'Payment_Type': 'Ewallet',
                              'PhoneNumber1': '01748-625058',
                              'PhoneNumber2': '01369-185737',
                              'Time': '13:46',
                              'Total_amount': 42.3675,
                              'amount_billed': 42.3675,
                              'city': 'Boise',
                              'customer_type': 'Normal',
                              'email': 'avery@veit.co.uk',
                              'gender': 'Male',
                              'state': 'ID'},
      'productTweet': [{'created_at': datetime.datetime(2020, 4, 8, 22, 47, 58),
                         'favCount': 0,
                         'id': 1248019784039411712,
                         'product_Line': 'Health and beauty',
                         'retweet': 0,
                         'screenname': 'GrayskyX',
                         'tags': '',
                         'text': 'Those who love themselves, by wealth, beauty, or '
                                 '"health" will limit life to themselves, and be '
                                 'complacent and call... https://t.co/SPCBWffDlY'},
                        {'created_at': datetime.datetime(2020, 4, 8, 22, 47, 24),
                         'favCount': 0,
                         'id': 1248019644289445890,
                         'product_Line': 'Health and beauty',
                         'retweet': 0,
                         'screenname': 'velocipedus',
                         'tags': '',
                         'text': '@allpartycycling @bmj_latest The beauty and power '
                                 'of such studies: They provide hard evidence to '
                                 'bring together hea... https://t.co/rRRXrObiLL'},
                        {'created_at': datetime.datetime(2020, 4, 8, 22, 47, 8),
                         'favCount': 0,
                         'id': 1248019576043917312,
                         'product_Line': 'Health and beauty',
                         'retweet': 0,
```

```
'screenname': 'mvsiii71',
 'tags': '',
 'text': 'Come take a look at all Avon has to offer for '
         'health and beauty needs! https://t.co/qBqQCTkWuw '
         'https://t.co/rqm5chgzJl'},
{'created_at': datetime.datetime(2020, 4, 8, 22, 39, 46),
'favCount': 0,
 'id': 1248017721532416003,
 'product_Line': 'Health and beauty',
 'retweet': 1,
 'screenname': 'Treuburg',
 'tags': '',
 'text': 'RT @JackStewartCham: Hundreds move into small, run '
         'down or boring town and revitalize infrastructure, '
         'display health and vitality and inspi...'},
{'created_at': datetime.datetime(2020, 4, 8, 22, 34, 51),
 'favCount': 3,
 'id': 1248016482690199555,
 'product_Line': 'Health and beauty',
 'retweet': 1,
 'screenname': 'JackStewartCham',
 'tags': '',
 'text': 'Hundreds move into small, run down or boring town '
         'and revitalize infrastructure, display health and '
         'vitality and in... https://t.co/NZitR9TqAv'},
{'created_at': datetime.datetime(2020, 4, 8, 22, 30, 54),
 'favCount': 0,
 'id': 1248015490057822208,
 'product_Line': 'Health and beauty',
 'retweet': 0,
 'screenname': 'dawn27331807',
 'tags': '',
 'text': '@realDonaldTrump I work in the beauty industry and '
         'I touch people all day ... I'm not in any rush to '
         'go to work..... https://t.co/mvjjWJ2Cnu'},
{'created_at': datetime.datetime(2020, 4, 8, 22, 30, 43),
 'favCount': 0,
 'id': 1248015444365066243,
 'product_Line': 'Health and beauty',
 'retweet': 2,
 'screenname': 'TheVibeDealer3',
 'tags': '',
 'text': 'RT @tea_natasha: The simplicity of soothing '
         'Spearmint and lightly floral Rose Hip blend is a '
         'simplistic blend of balance and beauty. Enjoy...'},
{'created_at': datetime.datetime(2020, 4, 8, 22, 27, 7),
 'favCount': 0,
 'id': 1248014536809967616,
```

```
'product_Line': 'Health and beauty',
 'retweet': 3,
 'screenname': 'HollyThomas61',
 'tags': ['covid19', 'immunityboost', 'home'],
 'text': 'RT @ladyboarder9669: Natural, easy, at home '
         'recipes to boost immuity for yourself and home '
         'during Covid-19 #covid19 #immunityboost #home #e...'},
{'created_at': datetime.datetime(2020, 4, 8, 22, 12, 42),
 'favCount': 0,
'id': 1248010909819142144,
 'product_Line': 'Health and beauty',
 'retweet': 15,
 'screenname': 'EmanHabbash',
 'tags': '',
 'text': 'RT @HeightsPodium: It starts from health all the '
         'way to media.. we will go through sports, culture, '
         'innovation, coffee, Comedy, beauty, art...'},
{'created_at': datetime.datetime(2020, 4, 8, 22, 10, 19),
 'favCount': 0,
 'id': 1248010309840719873,
 'product_Line': 'Health and beauty',
 'retweet': 4,
 'screenname': 'ewhoma ',
 'tags': '',
 'text': 'RT @KelechiAttamah: Law firms are already issuing '
         'opinions on covid-19 and employment contracts to '
         'their corporate clients. The beauty of 1...'},
{'created_at': datetime.datetime(2020, 4, 8, 22, 9, 10),
 'favCount': 0,
 'id': 1248010022266630147,
 'product_Line': 'Health and beauty',
 'retweet': 4,
 'screenname': 'USIIV',
 'tags': '',
 'text': 'RT @KelechiAttamah: Law firms are already issuing '
         'opinions on covid-19 and employment contracts to '
         'their corporate clients. The beauty of l...'},
{'created_at': datetime.datetime(2020, 4, 8, 22, 8, 5),
 'favCount': 0,
 'id': 1248009747158073344,
 'product_Line': 'Health and beauty',
 'retweet': 0,
 'screenname': 'BidorBuy247',
 'tags': '',
 'text': 'Remedy Antifungal Soap, Helps Wash Away Body Odor '
         'Fungus Shower Gel Women/Men '
         'https://t.co/OqZRPaDV6n https://t.co/NRKUMVteJ8'},
{'created_at': datetime.datetime(2020, 4, 8, 22, 2, 50),
```

```
'favCount': 0,
 'id': 1248008428703731718,
 'product_Line': 'Health and beauty',
 'retweet': 1,
 'screenname': 'Its 30ne4',
 'tags': '',
 'text': 'RT @Ali yeganeh s: The twelfth Imam, Imam Mahdi, '
         'is not only the Imam of the Shiites, but also the '
         'Imam of all human beings With his coming...'},
{'created_at': datetime.datetime(2020, 4, 8, 22, 1, 43),
 'favCount': 1,
 'id': 1248008144229285893,
 'product_Line': 'Health and beauty',
 'retweet': 1,
 'screenname': 'Ali_yeganeh_s',
 'tags': '',
 'text': 'The twelfth Imam, Imam Mahdi, is not only the Imam '
         'of the Shiites, but also the Imam of all human '
         'beings With his c... https://t.co/TVN416XP17'},
{'created at': datetime.datetime(2020, 4, 8, 22, 0, 8),
'favCount': 0,
 'id': 1248007746009493504,
 'product_Line': 'Health and beauty',
 'retweet': 2,
 'screenname': 'Gentleman__7',
 'tags': '',
 'text': 'RT @tea_natasha: The simplicity of soothing '
         'Spearmint and lightly floral Rose Hip blend is a '
         'simplistic blend of balance and beauty. Enjoy...'},
{'created_at': datetime.datetime(2020, 4, 8, 21, 59, 11),
 'favCount': 0,
 'id': 1248007509400379393,
 'product_Line': 'Health and beauty',
 'retweet': 2,
 'screenname': 'TraceyBenmore',
 'tags': '',
 'text': 'RT @InStyle: A total upheaval of life as we know '
         'it - and social distance from the triggers that '
         'might push people to drink too much - is l...'},
{'created_at': datetime.datetime(2020, 4, 8, 21, 57, 34),
'favCount': 8,
'id': 1248007100040531971,
 'product_Line': 'Health and beauty',
 'retweet': 2,
 'screenname': 'InStyle',
 'tags': '',
 'text': 'A total upheaval of life as we know it - and '
         'social distance from the triggers that might push '
```

```
'people to drink too... https://t.co/pTLrEUe2pY'},
{'created_at': datetime.datetime(2020, 4, 8, 21, 57, 23),
 'favCount': 0,
 'id': 1248007055178227712,
 'product_Line': 'Health and beauty',
 'retweet': 0,
 'screenname': '4Chrissy0',
 'tags': '',
 'text': '@FLOTUS Schisandra berries fight SARS Coronavirus '
         '19 too. Look it up, they are good for many health '
         'and beauty issues, and harmless.'},
{'created_at': datetime.datetime(2020, 4, 8, 21, 56, 18),
 'favCount': 1,
 'id': 1248006781520904192,
 'product_Line': 'Health and beauty',
 'retweet': 2,
 'screenname': 'tea_natasha',
 'tags': '',
 'text': 'The simplicity of soothing Spearmint and lightly '
         'floral Rose Hip blend is a simplistic blend of '
         'balance and beauty.... https://t.co/EtbGIugei1'},
{'created at': datetime.datetime(2020, 4, 8, 21, 54, 56),
 'favCount': 0,
 'id': 1248006438586167296,
 'product_Line': 'Health and beauty',
 'retweet': 4,
 'screenname': 'Raul38557638',
 'tags': '',
 'text': 'RT @bay_art: It's official, nature has '
         'wide-ranging health benefits, and also it is good '
         'for your soul. Famous nature quotes will make '
         'you...'},
{'created_at': datetime.datetime(2020, 4, 8, 21, 51, 36),
 'favCount': 0,
 'id': 1248005598072864768,
 'product_Line': 'Health and beauty',
 'retweet': 0,
 'screenname': 'AALawnLandscape',
 'tags': '',
 'text': 'Easy to Follow Tips on Watering Your Lawn For '
         'Optimal Lawn Health, Growth, and Beauty! See '
         'Videos...\n'
         'LEARN MORE..... https://t.co/xz1t7SgJ3w'},
{'created_at': datetime.datetime(2020, 4, 8, 21, 47, 6),
 'favCount': 0,
 'id': 1248004465631752192,
 'product_Line': 'Health and beauty',
```

```
'retweet': 0,
 'screenname': 'Beauty_Rushhhh',
 'tags': '',
 'text': 'They are giving us a health screening and checking '
         'our temperature everyday before we begin our shift '
         '. Shit is getting real lol'},
{'created at': datetime.datetime(2020, 4, 8, 21, 44, 23),
 'favCount': 0,
 'id': 1248003782664785921,
 'product_Line': 'Health and beauty',
 'retweet': 4,
 'screenname': 'ah_marachy',
 'tags': '',
 'text': 'RT @KelechiAttamah: Law firms are already issuing '
         'opinions on covid-19 and employment contracts to '
         'their corporate clients. The beauty of l...'},
{'created_at': datetime.datetime(2020, 4, 8, 21, 40, 11),
 'favCount': 0,
 'id': 1248002728082567168,
 'product_Line': 'Health and beauty',
 'retweet': 0,
 'screenname': 'tania hanyu',
 'tags': ['Health'],
 'text': 'Price Blackview R6 3/32gb 5.5â€3 android 6 free '
         'jelly case and screen protector Cash On delivery '
         'Las Pinas Philiphines - #Health & amp; Beauty'},
{'created_at': datetime.datetime(2020, 4, 8, 21, 39, 31),
 'favCount': 0,
 'id': 1248002561090539521,
 'product_Line': 'Health and beauty',
 'retweet': 7,
 'screenname': '_ataei',
 'tags': '',
 'text': 'RT @rasuli_alireza: All people around the world '
         'are waiting for The Son of Man who brings a world '
         'without war, poverty, disease, or polluti...'},
{'created at': datetime.datetime(2020, 4, 8, 21, 35, 58),
 'favCount': 0,
 'id': 1248001664994299905,
 'product_Line': 'Health and beauty',
 'retweet': 0,
 'screenname': 'ReGenFriends',
 'tags': '',
 'text': '"Upon this handful of soil, our survival depends. '
         'Husband it and it will grow our food, our fuel, '
         'and our shelter a... https://t.co/iDlp9Lu1nt'},
{'created_at': datetime.datetime(2020, 4, 8, 21, 28, 24),
 'favCount': 0,
```

```
'id': 1247999760176254976,
 'product_Line': 'Health and beauty',
 'retweet': 0,
 'screenname': 'tmj_rip_adv',
 'tags': ['Woonsocket'],
 'text': "Want to work at CVS Health? We're hiring in "
         '#Woonsocket, RI! Click the link in our bio for '
         'details on this job and... https://t.co/GGbVymQGrR'},
{'created at': datetime.datetime(2020, 4, 8, 21, 20),
'favCount': 4,
'id': 1247997648554135553,
'product_Line': 'Health and beauty',
 'retweet': 0,
 'screenname': 'kaelynforde',
 'tags': '',
 'text': '"Everything I use to hold myself accountable: '
         'work, routine, exercise and self-care routines, '
         'it was all swept out... https://t.co/3T5k6NQeEK'},
{'created_at': datetime.datetime(2020, 4, 8, 21, 14, 6),
 'favCount': 0,
'id': 1247996161639813125,
 'product_Line': 'Health and beauty',
 'retweet': 15.
 'screenname': 'ccthewriter1',
 'tags': ['writingcommunity'],
 'text': "RT @CrystalHoshaw: Hi #writingcommunity, I'm new "
         'to Twitter and looking to hire seasoned writers '
         'for health content. Please add me and shar...'},
{'created_at': datetime.datetime(2020, 4, 8, 21, 13, 22),
 'favCount': 0,
 'id': 1247995978147409920,
 'product_Line': 'Health and beauty',
'retweet': 15,
 'screenname': 'gd959098',
 'tags': ['writingcommunity'],
 'text': "RT @CrystalHoshaw: Hi #writingcommunity, I'm new "
         'to Twitter and looking to hire seasoned writers '
         'for health content. Please add me and shar...'},
{'created_at': datetime.datetime(2020, 4, 8, 21, 11, 52),
 'favCount': 1,
 'id': 1247995599544336385,
 'product_Line': 'Health and beauty',
 'retweet': 0,
 'screenname': 'Crisp_Mag',
 'tags': '',
 'text': 'Why The Mind and Body Don't Get Along During '
         'Quarantine https://t.co/xwhev2IL8w'},
{'created_at': datetime.datetime(2020, 4, 8, 21, 11, 44),
```

```
'favCount': 1,
 'id': 1247995565620723712,
 'product_Line': 'Health and beauty',
 'retweet': 0,
 'screenname': 'Carols Garcia',
 'tags': '',
 'text': 'SUPER EXCITED!! I joined the Arbonne fam when I '
         'found out that I could thrive doing something I'm '
         'already passiona... https://t.co/SloBzAEX78'},
{'created_at': datetime.datetime(2020, 4, 8, 21, 7, 52),
 'favCount': 2,
'id': 1247994595008483328,
 'product_Line': 'Health and beauty',
 'retweet': 0,
 'screenname': 'CeciliaDaForno1',
 'tags': '',
 'text': 'What 3 things are you doing for your mental '
         'health? Answer / nominate 3 others: '
         '@JulieHe10511078 @And I88...'
         'https://t.co/U26LvaS1Ff'},
{'created_at': datetime.datetime(2020, 4, 8, 21, 5, 57),
 'favCount': 0,
 'id': 1247994111573078017,
 'product_Line': 'Health and beauty',
 'retweet': 0,
 'screenname': 'BoBAUall',
 'tags': '',
 'text': 'Professional Titanium Microneedle Derma Needle '
         'Roller for Acne Scars, Face, B V3U9 '
         'https://t.co/4up18DwT20 https://t.co/XcSmAJfZZl'},
{'created_at': datetime.datetime(2020, 4, 8, 21, 1, 46),
 'favCount': 0,
 'id': 1247993059683557380,
 'product_Line': 'Health and beauty',
 'retweet': 15,
 'screenname': 'KatinaParon',
 'tags': ['writingcommunity'],
 'text': "RT @CrystalHoshaw: Hi #writingcommunity, I'm new "
         'to Twitter and looking to hire seasoned writers '
         'for health content. Please add me and shar...'},
{'created_at': datetime.datetime(2020, 4, 8, 21, 0, 43),
 'favCount': 0,
 'id': 1247992793198465029,
 'product_Line': 'Health and beauty',
 'retweet': 0,
 'screenname': 'Greenhouses1',
 'tags': '',
 'text': 'The Garden is a place for the health of mind, body '
```

```
'and soul. ~ A place of Beauty, a place of '
         'celebration and appre... https://t.co/iuvDmJGHyw'},
{'created_at': datetime.datetime(2020, 4, 8, 21, 0, 20),
 'favCount': 2,
'id': 1247992699661189121,
 'product_Line': 'Health and beauty',
 'retweet': 0,
 'screenname': 'ElleCanada',
 'tags': '',
 'text': 'At-Home Workout Equipment That Won't Cost a '
         'Fortune https://t.co/NHH21nheWX'},
{'created_at': datetime.datetime(2020, 4, 8, 21, 0, 8),
 'favCount': 0,
 'id': 1247992647517700096,
 'product_Line': 'Health and beauty',
 'retweet': 0,
 'screenname': 'ArnicareUSA',
 'tags': ['Diet', 'exercise', 'sleep'],
 'text': '#Diet, #exercise, and #sleep all affect how you '
         'look. https://t.co/tuie8x4BZi'},
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         'T...'},
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{'created_at': datetime.datetime(2020, 4, 8, 20, 54, 31),
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         'https://t.co/nL51gxkzQV https://t.co/lDioeDU6JR'},
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 'tags': '',
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         'which can be harmful to... https://t.co/qEg3tF0r01'},
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 'tags': '',
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         '#TextureHunterGatherer like local artist @LizAt...'},
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         'these brands face & amp; we thin... '
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 'retweet': 406,
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 'tags': ['coronavirus'],
 'text': 'RT @lindahoguttu: A friend has just been released '
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         '#coronavirus\n'
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 'tags': '',
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         'https://t.co/HL77qN6au7 https://t.co/6kVJpRYccI'},
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```

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'no thought or conc... https://t.co/zCER9ryB2y'}]}
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                            'TIC Accessories LTD is a well-known Electronic '
                            'pro... https://t.co/DINrF5U25t'},
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                   'tags': '',
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         'VAPE ACCESSORIES\n'
         '\n'
         '©\n'
         'Vape Access; \n'
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         'Digital clock.\n'
         'P...'},
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         'VAPE ACCESSORIES\n'
         '\n'
         '©\n'
         'Vape Access; \n'
         'VPN on electronic version.\n'
         'Digital cl... https://t.co/2Qlwnjb1pU'},
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         '\n'
         '-\n'
         '\n'
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                             'phone_glass',
                             'phone_cables',
                             'phone_chargersSpring'],
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                            '#phone_cables #phone_chargersSpring USB Cable for '
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                            'KEYCEO is the professional manufacturer for '
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                   'tags': '',
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{'ProductLine': 'Home and lifestyle',
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'#montblanc... https://t.co/qinAyGtNOE'},

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 'product_Line': 'Home and lifestyle',
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 'screenname': 'itsHemantSharma',
 'tags': '',
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```

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'Be ready for prime time\n'
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         '\n'
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         'https://t.co/6HIaYPDfye #UK #Travel'},
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 'tags': '',
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         'require any extra travel, unless there is some '
         'important lab/sport... https://t.co/AuPA9j4xKE'},
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         'Travel to and fro... https://t.co/Xsd4rNs2Fg'},
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         'Medical Emergency Equipment Ki...'
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         'me and travel expert @LeeAbbamonte today on IG '
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         'you tell me why sports administrators are allowed '
         'to lead organiza... https://t.co/lrhu3HRtyS'},
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'the sounds of it t... https://t.co/VTHcFRmhKC'},
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         'air travel to name a few'},
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         'me and travel expert @LeeAbbamonte today on IG '
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 'tags': '',
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         'flying in tandem and messing about over Harbs. '
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 'tags': '',
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         'if only (a) there were even more transit and (b) '
         'we stopped sched... https://t.co/M2uRUDlBqE'},
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         'landscape of Lanzarote, lies a true paradise of '
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         'English!
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         'hours and cross count... https://t.co/HAffPiKI2h'},
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         'landscape of Lanzarote, lies a true paradise of '
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 'tags': '',
 'text': 'Friends support our efforts in elevating sports '
         'and travel hospitality programs by following our '
         'small company Firs... https://t.co/MJnjfcuQqX'},
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         'enacting measures to ensure that athletes can't '
         'easily transmit the viru... https://t.co/hn9w9nk0kj'},
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         "a bit of light hearted fun. Here's your Sports "
         'Travel Internatio... https://t.co/vNsUbzCDVh'},
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 'tags': '',
 'text': 'Because of the virus: cut off the cable because no '
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         'workout. Can't sh... https://t.co/Ry5HSdxqzk'},
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         'with a crowd is a uplifting sign both economically '
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         '@Woodshed 1914 @Freekeith @stateofthenewy1 '
         '@ginisangpepe @AJTheManChild...'
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'play. https://t.co/v7SC1lHiyH via @YouTube #travel '
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         'racing and sports! Have a safe travel bac...'},
{'created_at': datetime.datetime(2020, 4, 8, 13, 33, 44),
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         'nature sports, basketbal... https://t.co/12yav8zEv8'},
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         'You have to bring your own food however. Other '
         'water sports like boating and fishing are also '
         'plentiful.'},
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 'tags': '',
 'text': '@dmn_cowboys bullshit @TimCowlishaw - sports '
         'returning as soon as they safely can (SAFELY) is '
         'one of the things tha... https://t.co/8bUIzLCxGy'},
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 'tags': '',
 'text': 'Megan Rushlau - Softball\n'
         '\n'
         'Also participated in band. I have played travel '
         'softball for 6 years and will continue my... '
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 'tags': '',
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         'borders closed to non-essential travel. Racing '
         'can be run locally... https://t.co/fJyOUDqhgx'},
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         'purchases you can make from a purely financial '
         'standpoint. There are onl...'
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'https://t.co/GcKVzHfa9W'},
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 'tags': ['COVID19'],
 'text': 'RT @getppcexpo: 7 Industries that are suffering '
         'from the #COVID19 Pandemic\n'
         '\n'
         '1. Travel and tourism\n'
         '2. Bars and restaurants\n'
         '3. Live entertain...'},
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 'tags': '',
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         'guide system such as travel guides, multilingual '
         'interpretation, he... https://t.co/Snb20SyR7f'},
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 'tags': '',
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         'Scope with Smartphone Adapter and Tripod Dual '
         'Focus for Outdoor Spo... https://t.co/hZxWwIOLkW'},
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 'tags': '',
 'text': 'RT @HuginnTravel: Ukrepali so takoj po 2. in 3. '
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         '\n'
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         'far, Lithuania introduced y... '
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 'tags': '',
 'text': 'SkyGenius 10 x 50 Powerful Binoculars for Adults '
         'Durable Full-Size Clear Binoculars for Bird '
         'Watching Travel Sights... https://t.co/pzDxZMlk1c'},
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 'tags': '',
 'text': "@rid1kader I'm speculating that schools , "
         'religious gatherings and other large gatherings '
         '(sports events) will be p... '
         'https://t.co/Uet6a2uH8K'},
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 'retweet': 0,
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 'tags': '',
 'text': '@dreaminok7 @RealMattCouch Here in Pa. we are '
         'under a stay at home advisory until April 30 '
         'issued by the governor ,... https://t.co/HgDLsMZxmg'},
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 'tags': '',
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'text': '@nytimes True, the man is like a powerful sports '
         "car without a steering wheel. But that doesn't "
         'meant the WHO is of... https://t.co/kyOTqyx72D'},
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         'was turn up, travel and have deep late night talks '
         'with my friends and play sports and go t...'},
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         'today organized by @NetsGov! Interesting '
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 'retweet': 1,
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 'tags': '',
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 'tags': '',
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         'C are: \n'
         '1) Citrus Fruits (Oranges, Grapefruit, Lemon & Damp; '
         'Lime) and... https://t.co/xm5qy7x4Kg'},
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         '2) Microwave Popcorn\n'
         '3) Red Meat\n'
         '4) Salt-Cured and Pickled Foods\n'
         '5) Refined Carbohydrates and Su... '
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                            'products from industries such as: alcoholic and '
                            'non-alcoholic bev... https://t.co/ludTVvCrTt'}]}
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         '2. Like this post\n'
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```
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- 2.0.7 Answering all the Database questions for the assignment -
- 2.0.8 Q1> What are tags are associated with a person, place or thing?

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     'Diet'}
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     Home and lifestyle
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     Sports and travel
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     Food and beverages
     {'beverages', 'contactfree', 'long', 'Biotechnology', 'Doneraile', 'Nigeria',
     'SNAP', 'FEC', 'tobacco', 'foodindustry', 'stock', 'food', 'TheFive', 'Liberia',
     'team', 'BritishColumbia'}
     Fashion accessories
     {'influencer', 'classy', 'scarifications', 'model', 'beautiful', 'look',
     'fashionbusiness', 'style', 'jewelry', 'bracelet', 'handmade', 'trend',
     'accessories', 'Style', 'turkeyexport', 'statement', 'FrizeMedia', 'dress',
     'amazing', 'friends', 'beautifulpeople', 'inspiration', 'swag', 'Handmade',
     'beauty', 'outfit', 'woman', 'Giveaway', 'Toptan', 'party', 'details',
     'Fashion', 'fashion', 'love'}
     2.0.9 Q2>- What social media users are like other social media users in your domain?
[36]: def similarSocialMediaUsers(productLine, user):
          similarUsers = set()
          tweets = mycol.find_one({'ProductLine':productLine})['productTweet']
          for tweet in tweets:
```

print()

```
if tweet["screenname"] == user:
                  tags = tweet['tags']
                  break
          print(tags)
          for tag in tags:
              for tweet in tweets:
                  if tag in tweet['tags']:
                      similarUsers.add(tweet['screenname'])
          print(similarUsers)
[47]: similarSocialMediaUsers("Health and beauty", "gd959098")
     ['writingcommunity']
     {'ccthewriter1', 'gd959098', 'KatinaParon', 'weischoice'}
     2.0.10 Q3> What people, places or things are popular in your domain?
[38]: #Tweet Count within a time range
      trending ={}
      def trendingDomain(productLine):
          startDate = datetime.datetime(2020, 4, 8, 8, 0, 0)
                      datetime.datetime(2020, 4, 8, 9, 0, 0)
          numbTweets = 0
          retweets = 0;
          tweets = mycol.find_one({'ProductLine':productLine})['productTweet']
          for tweet in tweets:
              if (tweet['created_at'] > startDate) and (tweet['created_at'] >__
       →endDate):
                  numbTweets=numbTweets+1
                  retweets = retweets+tweet['retweet']
          trend = numbTweets+retweets
          trending[productLine] = trend
[39]: for product in productLines:
          trendingDomain(product)
[40]: sortedTrendDictionary = sorted(trending.items(), key=lambda x: x[1], ___
       →reverse=True)
[41]: print(trending)
     {'Food and beverages': 13235, 'Electronic accessories': 101, 'Sports and
     travel': 571, 'Home and lifestyle': 7746, 'Fashion accessories': 416, 'Health
     and beauty': 613}
[42]: print(sortedTrendDictionary)
```

```
[('Food and beverages', 13235), ('Home and lifestyle', 7746), ('Health and beauty', 613), ('Sports and travel', 571), ('Fashion accessories', 416), ('Electronic accessories', 101)]
```

The Most Popular productLine is -

```
[43]: sortedTrendDictionary[0]
```

```
[43]: ('Food and beverages', 13235)
```

2.0.11 UserName and the tags associated with that user

```
[44]: tweets = mycol.find_one({'ProductLine':"Health and beauty"})['productTweet']
for tweet in tweets:
    print(tweet['screenname'],tweet['tags'])
```

```
GrayskyX
velocipedus
mvsiii71
Treuburg
JackStewartCham
dawn27331807
TheVibeDealer3
HollyThomas61 ['covid19', 'immunityboost', 'home']
EmanHabbash
ewhoma
USIIV
BidorBuy247
Its_30ne4
Ali_yeganeh_s
Gentleman__7
TraceyBenmore
InStyle
4Chrissy0
tea_natasha
Rau138557638
AALawnLandscape
Beauty_Rushhhh
ah_marachy
tania_hanyu ['Health']
ataei
ReGenFriends
tmj_rip_adv ['Woonsocket']
kaelynforde
ccthewriter1 ['writingcommunity']
gd959098 ['writingcommunity']
Crisp_Mag
Carols_Garcia
```

```
CeciliaDaForno1
BoBAUall
KatinaParon ['writingcommunity']
Greenhouses1
ElleCanada
ArnicareUSA ['Diet', 'exercise', 'sleep']
weischoice ['writingcommunity']
tomwlsn31 ['COVID19']
BidorBuy247
PRJournoRequest
Shahinaz6
ladyboarder9669 ['covid19', 'immunityboost', 'home']
se23_tweets ['TextureHunterGatherer']
JournalistJill
seuoceancleanup ['Microplastics']
Honeysblood
lynnettepeck
LizAtkin ['TextureHunterGatherer']
buynbuyshop ['health', 'clothing', 'gadget', 'beauty', 'watch']
SomethingDigitl ['beauty', 'health', 'wellness']
drjessigold
valiant_beauty ['coronavirus']
biyounaruhodo
AH Fasihi
HummerSilver
UtahFamilyPharm
mdad8200
```

2.0.12 Q4> What people, places or things are popular in your domain?

```
else:
              rg = 5
          for x in range(0,rg):
              print(sortedDictionary[x][0])
[52]: for i in range(len(ProductLineDoc)):
          productLine = mycol.find({})[i]['ProductLine']
          popularInDomain(productLine)
     The domain is ----> Health and beauty
     writingcommunity
     covid19
     immunityboost
     home
     TextureHunterGatherer
     The domain is ----> Electronic accessories
     montblanc
     electronic_accessories
     phone_case
     phone_glass
     phone_cables
     The domain is ----> Home and lifestyle
     clean
     disinfect
     coronavirus
     The domain is ----> Sports and travel
     vacations
     business
     sports
     religious
     club
     The domain is ----> Food and beverages
     foodindustry
     Doneraile
     contactfree
     TheFive
     The domain is ----> Fashion accessories
     friends
     Giveaway
     fashion
     style
     accessories
     2.0.13 Report
     Sample Data -
```

The data source for this assignment is - https://www.kaggle.com/aungpyaeap/supermarket-sales The source of data that we have used is super store dataset. The data set is taken from Kaggle.

Aim

The aim of this assignment was to convert the RDBMS created in the last assignment into NoSQL DBMS. Then answer te questions for the databse.

Data Auditing The data retrived from the kaggle datasource was audited to ensure that the data is all clean, consistent and valid. auditing was done to ensure that there are no null values or duplicate entries in the data source

After t=auditing was done, the data was broken into different tables according to the RDBMS requirements

Design Decision Explaination The design decision explaination have been explained in a very detailed format in the above section please refer to the design explaination section for more details about this

Database Questions Question 1 - What are tags are associated with a person, place or thing?

The tags have been scraped for each tweet. A set has been used to store all the tags that are related to the productline so that there would be no duplicates in the hash tags retrived

Question 2 - What social media users are like other social media users in your domain?

The social media that use same hashtags are similar to other social media users. This is the logic used for finding the users that are similar to each other.

Question 3 - What people, places or things are popular in your domain?

The productLines which have maximum tweets and retweets in an hour of a specified date are most popular in my domain.

Question 4 - What people, places or things are trending in your domain? (A trend is popularity over time.)

The hashtags which hace been posted the maximum number of times are the things that ateh people are most talking about and are most popular in that domain.

Professionalism Professionalism has been maintained throughout this assignment

2.0.14 Conclusion

The SQL Relational database was converted into NoSQL database - MongoDB. Everything was stored in the form of documents and collection in mySQL database. As per the the requirements of this assignments, all the 4 question have been answered. The data is audited and cleaned before using for analysis. The Database design decisions have been clearly explained A discrete report has been created for explaining the work in the assignment. We have tested that the we can retrive the data for different usecases. We have taken exta efforts to make sure that professionalism has been maintained in the assignment.

2.0.15 Contributions

Our contributed : 30%

External source (Blogs, wikipedia, sample assignment and youtube videos): 30%

Provided by the professor : 40%

2.0.16 Citations

https://www.geeksforgeeks.org/difference-between-sql-and-nosql/

https://www.tutorialspoint.com/mongodb/index.htm

https://www.sitepoint.com/an-introduction-to-mongodb/

 $https://github.com/nikbearbrown/INFO_6210/tree/master/Project/Jobs_DB_Project/IPYNB$