Example Kafka Producer

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```
[1]: import json
     import uuid
     import pandas as pd
     import time

     from kafka import KafkaProducer, KafkaAdminClient
     from kafka.admin.new_topic import NewTopic
     from kafka.errors import TopicAlreadyExistsError
```

0.0.1 Configuration Parameters

TODO: Change the configuration prameters to the appropriate values for your setup.

```
[2]: config = dict(
         bootstrap_servers=['kafka.kafka.svc.cluster.local:9092'],
         first_name='Michael',
         last_name='Hotaling'
     )

     config['client_id'] = '{}{}'.format(
         config['last_name'],
         config['first_name']
     )
     config['topic_prefix'] = '{}{}'.format(
         config['last_name'],
         config['first_name']
     )

     config
```

```
[2]: {'bootstrap_servers': ['kafka.kafka.svc.cluster.local:9092'],
      'first_name': 'Michael',
      'last_name': 'Hotaling',
      'client_id': 'HotalingMichael',
      'topic_prefix': 'HotalingMichael'}
```

0.0.2 Create Topic Utility Function

The `create_kafka_topic` helps create a Kafka topic based on your configuration settings. For instance, if your first name is *John* and your last name is *Doe*, `create_kafka_topic('locations')` will create a topic with the name `DoeJohn-locations`. The function will not create the topic if it already exists.

```python
[3]: def create_kafka_topic(topic_name, config=config, num_partitions=1,
     →replication_factor=1):
         bootstrap_servers = config['bootstrap_servers']
         client_id = config['client_id']
         topic_prefix = config['topic_prefix']
         name = '{}-{}'.format(topic_prefix, topic_name)

         admin_client = KafkaAdminClient(
             bootstrap_servers=bootstrap_servers,
             client_id=client_id
         )

         topic = NewTopic(
             name=name,
             num_partitions=num_partitions,
             replication_factor=replication_factor
         )

         topic_list = [topic]
         try:
             admin_client.create_topics(new_topics=topic_list)
             print('Created topic "{}"'.format(name))
         except TopicAlreadyExistsError as e:
             print('Topic "{}" already exists'.format(name))

     create_kafka_topic('locations')
     create_kafka_topic('accelerations')
```

```
Topic "HotalingMichael-locations" already exists
Topic "HotalingMichael-accelerations" already exists
```

0.0.3 Kafka Producer

The following code creates a `KafkaProducer` object which you can use to send Python objects that are serialized as JSON.

Note: This producer serializes Python objects as JSON. This means that object must be JSON serializable. As an example, Python `DateTime` values are not JSON serializable and must be converted to a string (e.g. ISO 8601) or a numeric value (e.g. a Unix timestamp) before being sent.

```python
[4]: producer = KafkaProducer(
         bootstrap_servers=config['bootstrap_servers'],
```

```
    value_serializer=lambda x: json.dumps(x).encode('utf-8')
)
```

0.0.4 Send Data Function

The `send_data` function sends a Python object to a Kafka topic. This function adds the `topic_prefix` to the topic so `send_data('locations', data)` sends a JSON serialized message to `DoeJohn-locations`. The function also registers callbacks to let you know if the message has been sent or if an error has occured.

```
[5]: def on_send_success(record_metadata):
         print('Message sent:\n    Topic: "{}"\n    Partition: {}\n    Offset: {}'.
     ↪format(
             record_metadata.topic,
             record_metadata.partition,
             record_metadata.offset
         ))

     def on_send_error(excp):
         print('I am an errback', exc_info=excp)
         # handle exception

     def send_data(topic, data, config=config, producer=producer, msg_key=None):
         topic_prefix = config['topic_prefix']
         topic_name = '{}-{}'.format(topic_prefix, topic)

         if msg_key is not None:
             key = msg_key
         else:
             key = uuid.uuid4().hex

         producer.send(
             topic_name,
             value=data,
             key=key.encode('utf-8')
         ).add_callback(on_send_success).add_errback(on_send_error)
```

```
[6]: example_data = dict(
         key1='value1',
         key2='value2'
     )
     send_data('locations', example_data)
     send_data('accelerations', example_data)
```

```
[7]: #Writing data in for the next examples
     send_data('joined', example_data)
     send_data('simple', example_data)
```

3

```
send_data('windowed', example_data)
```

```
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 224
Message sent:
    Topic: "HotalingMichael-locations"
    Partition: 0
    Offset: 14
Message sent:
    Topic: "HotalingMichael-joined"
    Partition: 0
    Offset: 2
Message sent:
    Topic: "HotalingMichael-simple"
    Partition: 0
    Offset: 2
Message sent:
    Topic: "HotalingMichael-windowed"
    Partition: 0
    Offset: 2
```

1   Location Data

```python
[8]: import os
     from pathlib import Path
```

```python
[9]: current_dir = Path(os.getcwd()).absolute()
     current_dir = Path(current_dir).parents[2]
     data_dir = current_dir.joinpath('data')
     processed_dir = data_dir.joinpath('processed')
     bdd_dir = processed_dir.joinpath('bdd')
     locations_dir = bdd_dir.joinpath('locations')
     accelerations_dir = bdd_dir.joinpath('accelerations')
     locations_dir
```

```
[9]: PosixPath('/home/jovyan/dsc650-master/data/processed/bdd/locations')
```

```python
[10]: df_locations = pd.read_parquet(locations_dir).sort_values('offset').
      ↪reset_index()
      df_locations.timestamp = df_locations.timestamp.dt.strftime('%Y-%m-%d %H:%M:%S.
      ↪%f')
      df_dict_locations = df_locations.to_dict(orient='records')
```

4

```
[11]: df_locations.head(5)
```

```
[11]:    index                                id                          ride_id  \
      0       1  85c61911b7fe2ced1000c33c9e932706  6760ffa3f41908695d1405b776c3e8d5
      1       0  58682c5d48cad9d9e103431d773615bf  c9a2b46c9aa515b632eddc45c4868482
      2       2  58682c5d48cad9d9e103431d773615bf  c9a2b46c9aa515b632eddc45c4868482
      3       3  85c61911b7fe2ced1000c33c9e932706  6760ffa3f41908695d1405b776c3e8d5
      4       5  85c61911b7fe2ced1000c33c9e932706  6760ffa3f41908695d1405b776c3e8d5

                                     uuid                   timestamp    offset  \
      0  dad7eae44e784b549c8c5a3aa051a8c7  1970-01-01 00:25:07.320453  1.077913
      1  19b9aa10588646b3bf22c9b4865a7995  1970-01-01 00:25:03.882586  1.525061
      2  19b9aa10588646b3bf22c9b4865a7995  1970-01-01 00:25:03.882583  4.525061
      3  dad7eae44e784b549c8c5a3aa051a8c7  1970-01-01 00:25:07.320449  5.077913
      4  dad7eae44e784b549c8c5a3aa051a8c7  1970-01-01 00:25:07.320446  8.077913

            course   latitude  longitude      geohash  speed  accuracy timelapse  \
      0  158.203125  40.677641 -73.817930  dr5x2jpkmtcy   2.12      10.0     False
      1  299.619141  40.762870 -73.961949  dr5ruuwscttz   0.00      10.0     False
      2  299.619141  40.762870 -73.961949  dr5ruuwsctv3   0.00      10.0     False
      3  159.960938  40.677883 -73.818047  dr5x2jpmfffw  11.75      10.0     False
      4  159.609375  40.678191 -73.818193  dr5x2jppxkqj  13.15      10.0     False

                                     filename      t
      0  d745b92f-aefd-467d-9121-7a71308e8d6d.mov  000.0
      1  e2f795a7-6a7d-4500-b5d7-4569de996811.mov  000.0
      2  e2f795a7-6a7d-4500-b5d7-4569de996811.mov  004.5
      3  d745b92f-aefd-467d-9121-7a71308e8d6d.mov  004.5
      4  d745b92f-aefd-467d-9121-7a71308e8d6d.mov  007.8
```

```
[12]: df_dict_locations[0]
```

```
[12]: {'index': 1,
       'id': '85c61911b7fe2ced1000c33c9e932706',
       'ride_id': '6760ffa3f41908695d1405b776c3e8d5',
       'uuid': 'dad7eae44e784b549c8c5a3aa051a8c7',
       'timestamp': '1970-01-01 00:25:07.320453',
       'offset': 1.0779125295566454,
       'course': 158.203125,
       'latitude': 40.677641336844,
       'longitude': -73.81793000742218,
       'geohash': 'dr5x2jpkmtcy',
       'speed': 2.119999885559082,
       'accuracy': 10.0,
       'timelapse': False,
       'filename': 'd745b92f-aefd-467d-9121-7a71308e8d6d.mov',
       't': '000.0'}
```

```
[13]: def send_location_data(index):
          payload = df_dict_locations[index]
          send_data('locations', payload)
```

```
[14]: last_offset = 0
      for index,row in df_locations.iterrows():
          current_offset = row['offset']
          time.sleep(current_offset - last_offset)
          send_location_data(index)
          last_offset = current_offset
```

```
Message sent:
    Topic: "HotalingMichael-locations"
    Partition: 0
    Offset: 15
Message sent:
    Topic: "HotalingMichael-locations"
    Partition: 0
    Offset: 16
Message sent:
    Topic: "HotalingMichael-locations"
    Partition: 0
    Offset: 17
Message sent:
    Topic: "HotalingMichael-locations"
    Partition: 0
    Offset: 18
Message sent:
    Topic: "HotalingMichael-locations"
    Partition: 0
    Offset: 19
Message sent:
    Topic: "HotalingMichael-locations"
    Partition: 0
    Offset: 20
Message sent:
    Topic: "HotalingMichael-locations"
    Partition: 0
    Offset: 21
Message sent:
    Topic: "HotalingMichael-locations"
    Partition: 0
    Offset: 22
Message sent:
    Topic: "HotalingMichael-locations"
    Partition: 0
    Offset: 23
```

```
Message sent:
    Topic: "HotalingMichael-locations"
    Partition: 0
    Offset: 24
Message sent:
    Topic: "HotalingMichael-locations"
    Partition: 0
    Offset: 25
Message sent:
    Topic: "HotalingMichael-locations"
    Partition: 0
    Offset: 26
Message sent:
    Topic: "HotalingMichael-locations"
    Partition: 0
    Offset: 27
Message sent:
    Topic: "HotalingMichael-locations"
    Partition: 0
    Offset: 28
Message sent:
    Topic: "HotalingMichael-locations"
    Partition: 0
    Offset: 29
Message sent:
    Topic: "HotalingMichael-locations"
    Partition: 0
    Offset: 30
```

```
---------------------------------------------------------------------------
KeyboardInterrupt                         Traceback (most recent call last)
<ipython-input-14-e40f1a71116b> in <module>
      2 for index,row in df_locations.iterrows():
      3     current_offset = row['offset']
----> 4     time.sleep(current_offset - last_offset)
      5     send_location_data(index)
      6     last_offset = current_offset

KeyboardInterrupt:
```

2 Accelerations Data

```
[15]: create_kafka_topic('accelerations')
```

```
Topic "HotalingMichael-accelerations" already exists
```

```
[16]: df_accelerations = pd.read_parquet(accelerations_dir).sort_values('offset').
      ↪reset_index()
      df_accelerations.timestamp = df_accelerations.timestamp.dt.strftime('%Y-%m-%d␣
      ↪%H:%M:%S.%f')
      df_dict_accelerations = df_accelerations.to_dict(orient='records')
```

```
[17]: df_accelerations.head(5)
```

```
[17]:    index                                id                            ride_id  \
       0      0  58682c5d48cad9d9e103431d773615bf  c9a2b46c9aa515b632eddc45c4868482
       1      1  58682c5d48cad9d9e103431d773615bf  c9a2b46c9aa515b632eddc45c4868482
       2      2  58682c5d48cad9d9e103431d773615bf  c9a2b46c9aa515b632eddc45c4868482
       3      3  58682c5d48cad9d9e103431d773615bf  c9a2b46c9aa515b632eddc45c4868482
       4      4  58682c5d48cad9d9e103431d773615bf  c9a2b46c9aa515b632eddc45c4868482

                                      uuid                  timestamp    offset  \
       0  19b9aa10588646b3bf22c9b4865a7995  1970-01-01 00:25:03.882586  0.822061
       1  19b9aa10588646b3bf22c9b4865a7995  1970-01-01 00:25:03.882586  0.842061
       2  19b9aa10588646b3bf22c9b4865a7995  1970-01-01 00:25:03.882586  0.862061
       3  19b9aa10588646b3bf22c9b4865a7995  1970-01-01 00:25:03.882586  0.882061
       4  19b9aa10588646b3bf22c9b4865a7995  1970-01-01 00:25:03.882586  0.902061

              x      y      z  timelapse                              filename  \
       0 -0.994  0.045 -0.036      False  e2f795a7-6a7d-4500-b5d7-4569de996811.mov
       1 -0.998  0.046 -0.040      False  e2f795a7-6a7d-4500-b5d7-4569de996811.mov
       2 -0.999  0.047 -0.036      False  e2f795a7-6a7d-4500-b5d7-4569de996811.mov
       3 -0.999  0.045 -0.034      False  e2f795a7-6a7d-4500-b5d7-4569de996811.mov
       4 -0.999  0.048 -0.033      False  e2f795a7-6a7d-4500-b5d7-4569de996811.mov

              t
       0  000.0
       1  000.0
       2  000.0
       3  000.0
       4  000.0
```

```
[18]: df_dict_accelerations[0]
```

```
[18]: {'index': 0,
       'id': '58682c5d48cad9d9e103431d773615bf',
       'ride_id': 'c9a2b46c9aa515b632eddc45c4868482',
       'uuid': '19b9aa10588646b3bf22c9b4865a7995',
       'timestamp': '1970-01-01 00:25:03.882586',
       'offset': 0.8220608865228429,
       'x': -0.994,
       'y': 0.045,
       'z': -0.036000000000000004,
```

```
'timelapse': False,
'filename': 'e2f795a7-6a7d-4500-b5d7-4569de996811.mov',
't': '000.0'}
```

[19]:
```python
def send_acceleration_data(index):
    payload = df_dict_accelerations[index]
    send_data('accelerations', payload)
```

[20]:
```python
last_offset = 0
for index,row in df_accelerations.iterrows():
    current_offset = row['offset']
    time.sleep(current_offset - last_offset)
    send_acceleration_data(index)
    last_offset = current_offset
```

```
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 225
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 226
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 227
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 228
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 229
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 230
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 231
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 232
```

```
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 233
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 234
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 235
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 236
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 237
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 238
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 239
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 240
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 241
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 242
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 243
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 244
```

```
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 245
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 246
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 247
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 248
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 249
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 250
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 251
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 252
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 253
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 254
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 255
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 256
```

```
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 257
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 258
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 259
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 260
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 261
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 262
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 263
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 264
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 265
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 266
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 267
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 268
```

```
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 269
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 270
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 271
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 272
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 273
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 274
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 275
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 276
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 277
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 278
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 279
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 280
```

```
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 281
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 282
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 283
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 284
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 285
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 286
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 287
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 288
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 289
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 290
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 291
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 292
```

```
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 293
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 294
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 295
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 296
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 297
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 298
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 299
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 300
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 301
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 302
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 303
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 304
```

```
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 305
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 306
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 307
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 308
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 309
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 310
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 311
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 312
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 313
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 314
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 315
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 316
```

```
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 317
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 318
Message sent:
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    Partition: 0
    Offset: 578
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 579
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 580
```

```
Message sent:
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    Partition: 0
    Offset: 581
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 582
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 583
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 584
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 585
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 586
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 587
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 588
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 589
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 590
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 591
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 592
```

```
Message sent:
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    Partition: 0
    Offset: 593
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 594
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 595
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 596
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 597
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 598
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 599
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 600
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 601
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 602
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 603
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 604
```

```
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 605
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 606
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 607
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 608
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 609
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 610
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 611
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 612
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 613
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 614
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 615
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 616
```

```
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 617
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 618
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 619
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 620
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 621
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 622
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 623
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 624
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 625
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 626
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 627
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 628
```

```
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 629
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 630
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 631
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 632
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 633
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 634
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 635
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 636
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 637
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 638
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 639
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 640
```

```
Message sent:
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    Partition: 0
    Offset: 641
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 642
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 643
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 644
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 645
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 646
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 647
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 648
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 649
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 650
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 651
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 652
```

```
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 653
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 654
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 655
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 656
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 657
Message sent:
    Topic: "HotalingMichael-accelerations"
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    Offset: 658
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 659
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 660
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 661
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 662
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 663
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 664
```

```
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 665
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 666
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 667
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 668
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 669
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 670
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 671
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 672
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 673
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 674
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 675
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 676
```

```
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 677
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 678
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 679
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 680
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 681
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 682
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 683
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 684
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 685
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 686
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 687
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 688
```

```
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 689
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 690
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 691
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 692
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 693
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 694
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 695
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 696
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 697
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 698
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 699
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 700
```

```
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 701
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 702
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 703
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 704
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 705
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 706
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 707
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 708
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 709
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 710
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 711
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 712
```

```
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 713
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 714
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 715
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 716
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 717
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 718
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 719
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 720
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 721
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 722
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 723
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 724
```

```
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 725
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 726
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 727
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 728
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 729
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 730
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 731
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 732
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 733
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 734
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 735
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 736
```

```
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 737
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 738
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 739
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 740
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 741
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 742
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 743
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 744
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 745
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 746
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 747
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 748
```

```
Message sent:
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    Partition: 0
    Offset: 749
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 750
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 751
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 752
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 753
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 754
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 755
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 756
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 757
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 758
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 759
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 760
```

```
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 761
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 762
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 763
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 764
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 765
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 766
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 767
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 768
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 769
Message sent:
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    Partition: 0
    Offset: 770
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 771
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 772
```

```
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 773
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 774
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 775
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 776
Message sent:
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    Partition: 0
    Offset: 777
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 778
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 779
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 780
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 781
Message sent:
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    Partition: 0
    Offset: 782
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 783
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 784
```

```
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 785
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 786
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 787
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 788
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 789
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 790
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 791
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 792
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 793
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 794
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 795
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 796
```

```
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 797
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 798
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 799
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
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Message sent:
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    Offset: 801
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 802
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 803
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 804
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 805
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 806
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 807
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 808
```

```
Message sent:
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    Partition: 0
    Offset: 809
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 810
Message sent:
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Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 812
Message sent:
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    Partition: 0
    Offset: 813
Message sent:
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    Partition: 0
    Offset: 814
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
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Message sent:
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    Partition: 0
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Message sent:
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    Partition: 0
    Offset: 817
Message sent:
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    Partition: 0
    Offset: 818
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 819
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 820
```

```
Message sent:
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    Partition: 0
    Offset: 821
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 822
Message sent:
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    Partition: 0
    Offset: 823
Message sent:
    Topic: "HotalingMichael-accelerations"
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Message sent:
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    Partition: 0
    Offset: 825
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 826
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 827
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 828
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 829
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 830
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 831
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 832
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Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 833
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 834
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    Topic: "HotalingMichael-accelerations"
    Partition: 0
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    Partition: 0
    Offset: 840
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    Partition: 0
    Offset: 841
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 842
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    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 843
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 844
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Message sent:
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    Partition: 0
    Offset: 845
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 846
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    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 847
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    Topic: "HotalingMichael-accelerations"
    Partition: 0
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    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 849
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 850
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 851
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    Topic: "HotalingMichael-accelerations"
    Partition: 0
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    Partition: 0
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    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 856
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Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 857
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    Topic: "HotalingMichael-accelerations"
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    Offset: 867
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    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 868
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Message sent:
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    Partition: 0
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    Topic: "HotalingMichael-accelerations"
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    Offset: 880
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Message sent:
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    Topic: "HotalingMichael-accelerations"
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    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 901
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    Offset: 903
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    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 904
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Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 905
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    Offset: 916
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Message sent:
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    Partition: 0
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    Offset: 928
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Message sent:
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    Partition: 0
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    Topic: "HotalingMichael-accelerations"
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    Topic: "HotalingMichael-accelerations"
    Partition: 0
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    Offset: 932
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    Topic: "HotalingMichael-accelerations"
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    Offset: 939
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 940
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Message sent:
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    Offset: 941
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    Topic: "HotalingMichael-accelerations"
    Partition: 0
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    Topic: "HotalingMichael-accelerations"
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    Offset: 943
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    Offset: 944
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    Partition: 0
    Offset: 946
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    Offset: 951
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 952
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Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 953
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    Topic: "HotalingMichael-accelerations"
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    Partition: 0
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Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 963
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 964
```

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Message sent:
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    Partition: 0
    Offset: 965
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 966
Message sent:
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    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 968
Message sent:
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    Partition: 0
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    Partition: 0
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    Partition: 0
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Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 976
```

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Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 977
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 978
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 979
Message sent:
    Topic: "HotalingMichael-accelerations"
    Partition: 0
    Offset: 980
```

```
---------------------------------------------------------------------------
KeyboardInterrupt                         Traceback (most recent call last)
<ipython-input-20-ce8fbd732267> in <module>
      2 for index,row in df_accelerations.iterrows():
      3     current_offset = row['offset']
----> 4     time.sleep(current_offset - last_offset)
      5     send_acceleration_data(index)
      6     last_offset = current_offset

KeyboardInterrupt:
```

[ ]: