Task 2 (Experimentation and Uplifting Testing) Solution

December 11, 2023

1 Task 2 Solution: Quantium Forage

[1]:
```
import pandas as pd
import numpy as np
import matplotlib.dates as mdates
import matplotlib.pyplot as plt
from statistics import stdev
from scipy.stats import t
```

1.1 Table: QVI_data

[2]:
```
# df will be a shortcut for the dataframe of the QVI_data table
# reading the table from csv file into pandas dataframe

df = pd.read_csv('QVI_data.csv')

df.head()
```

[2]:
```
   LYLTY_CARD_NBR        DATE  STORE_NBR  TXN_ID  PROD_NBR  \
0            1000  2018-10-17          1       1         5
1            1002  2018-09-16          1       2        58
2            1003  2019-03-07          1       3        52
3            1003  2019-03-08          1       4       106
4            1004  2018-11-02          1       5        96

                                  PROD_NAME  PROD_QTY  TOT_SALES  PACK_SIZE  \
0  Natural Chip        Compny SeaSalt175g         2        6.0        175
1   Red Rock Deli Chikn&Garlic Aioli 150g         1        2.7        150
2   Grain Waves Sour    Cream&Chives 210G         1        3.6        210
3  Natural ChipCo      Hony Soy Chckn175g         1        3.0        175
4          WW Original Stacked Chips 160g         1        1.9        160

      BRAND              LIFESTAGE PREMIUM_CUSTOMER
0   NATURAL  YOUNG SINGLES/COUPLES          Premium
1       RRD  YOUNG SINGLES/COUPLES       Mainstream
2   GRNWVES         YOUNG FAMILIES           Budget
3   NATURAL         YOUNG FAMILIES           Budget
```

```
4  WOOLWORTHS  OLDER SINGLES/COUPLES       Mainstream
```

[3]:
```python
df.shape
```

[3]:
```
(264834, 12)
```

[4]:
```python
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 264834 entries, 0 to 264833
Data columns (total 12 columns):
 #   Column            Non-Null Count   Dtype
---  ------            --------------   -----
 0   LYLTY_CARD_NBR    264834 non-null  int64
 1   DATE              264834 non-null  object
 2   STORE_NBR         264834 non-null  int64
 3   TXN_ID            264834 non-null  int64
 4   PROD_NBR          264834 non-null  int64
 5   PROD_NAME         264834 non-null  object
 6   PROD_QTY          264834 non-null  int64
 7   TOT_SALES         264834 non-null  float64
 8   PACK_SIZE         264834 non-null  int64
 9   BRAND             264834 non-null  object
 10  LIFESTAGE         264834 non-null  object
 11  PREMIUM_CUSTOMER  264834 non-null  object
dtypes: float64(1), int64(6), object(5)
memory usage: 24.2+ MB
```

[5]:
```python
df.dtypes
```

[5]:
```
LYLTY_CARD_NBR        int64
DATE                 object
STORE_NBR             int64
TXN_ID                int64
PROD_NBR              int64
PROD_NAME            object
PROD_QTY              int64
TOT_SALES           float64
PACK_SIZE             int64
BRAND                object
LIFESTAGE            object
PREMIUM_CUSTOMER     object
dtype: object
```

The date column has string data type and needs to be fixed. Let us convert it to date type and proceed after that with the rest of requirements.

[6]:
```
df['DATE'] = df['DATE'].astype('datetime64[ns]')
df.dtypes
```

[6]:
```
LYLTY_CARD_NBR                   int64
DATE                    datetime64[ns]
STORE_NBR                        int64
TXN_ID                           int64
PROD_NBR                         int64
PROD_NAME                       object
PROD_QTY                         int64
TOT_SALES                      float64
PACK_SIZE                        int64
BRAND                           object
LIFESTAGE                       object
PREMIUM_CUSTOMER                object
dtype: object
```

[7]:
```
df.isnull().sum()
```

[7]:
```
LYLTY_CARD_NBR      0
DATE                0
STORE_NBR           0
TXN_ID              0
PROD_NBR            0
PROD_NAME           0
PROD_QTY            0
TOT_SALES           0
PACK_SIZE           0
BRAND               0
LIFESTAGE           0
PREMIUM_CUSTOMER    0
dtype: int64
```

[8]:
```
df.count()
```

[8]:
```
LYLTY_CARD_NBR      264834
DATE                264834
STORE_NBR           264834
TXN_ID              264834
PROD_NBR            264834
PROD_NAME           264834
PROD_QTY            264834
TOT_SALES           264834
PACK_SIZE           264834
BRAND               264834
LIFESTAGE           264834
PREMIUM_CUSTOMER    264834
```

```
dtype: int64
```

[9]:
```
df.nunique()
```

[9]:
```
LYLTY_CARD_NBR       72636
DATE                   364
STORE_NBR              272
TXN_ID              263125
PROD_NBR               114
PROD_NAME              114
PROD_QTY                 5
TOT_SALES              111
PACK_SIZE               21
BRAND                   21
LIFESTAGE                7
PREMIUM_CUSTOMER         3
dtype: int64
```

So the basic exploration has been done until here and also the data type of the date column has been fixed. Let us proceed with the core of the task. The first task which has to be achieved is selecting the control stores. We need to keep in mind that the client already selected stores 77, 86 and 88 as trial stores and we need the control stores to be similar to the trail stores prior to the trial period of Feb 2019 to compare them.

The main metrics we will consider here are: * Monthly overall sales revenue * Monthly number of customers * Monthly number of transactions per customer

1.1.1 1- Selecting the Control Stores

We can start with the following two important procedures:
1- Create the metrics.
2- Filter out stores that are present throughout the pre-trial period.

[10]:
```
# The first we need to do here is to create YEARMONTH feature

# This first is a long one way
# df['year'] = df['DATE'].dt.year.astype(str)
# df['month'] = df['DATE'].dt.month.map("{:02}".format).astype(str)
# df['YEARMONTH'] = df['year'] + df['month']

df['YEARMONTH'] = df['DATE'].dt.year.astype(str)+df['DATE'].dt.month.map("{:
 ↪02}".format).astype(str)
df['YEARMONTH'] = pd.to_numeric(df['YEARMONTH'])
df['YEARMONTH']
```

[10]:
```
0         201810
1         201809
2         201903
3         201903
```

```
4         201811
           …
264829    201812
264830    201810
264831    201810
264832    201810
264833    201812
Name: YEARMONTH, Length: 264834, dtype: int64
```

Now we will compute Total sales, Number of customers, Transaction per customer,Chips per transaction, and Average price per unit for each store and month by using group by. We will create individual dataframe and then concatenate all of them together at the end.

[11]:
```
# Sum of the total store monthly sales

Sales = df.groupby(['STORE_NBR', 'YEARMONTH']).TOT_SALES.sum()
Sales
```

[11]:
```
STORE_NBR  YEARMONTH
1          201807       206.9
           201808       176.1
           201809       278.8
           201810       188.1
           201811       192.6
                        …
272        201902       395.5
           201903       442.3
           201904       445.1
           201905       314.6
           201906       312.1
Name: TOT_SALES, Length: 3169, dtype: float64
```

[12]:
```
# Count of number of customers using specific store in each month

Customers = df.groupby(['STORE_NBR', 'YEARMONTH']).LYLTY_CARD_NBR.nunique()
Customers
```

[12]:
```
STORE_NBR  YEARMONTH
1          201807       49
           201808       42
           201809       59
           201810       44
           201811       46
                        ..
272        201902       45
           201903       50
           201904       54
           201905       34
```

```
            201906       34
Name: LYLTY_CARD_NBR, Length: 3169, dtype: int64
```

[13]:
```python
# Transactions per customer for each store in each month

TPC = df.groupby(['STORE_NBR', 'YEARMONTH']).TXN_ID.nunique() / df.
 ↪groupby(['STORE_NBR', 'YEARMONTH']).LYLTY_CARD_NBR.nunique()
TPC
```

[13]:
```
STORE_NBR  YEARMONTH
1          201807       1.061224
           201808       1.023810
           201809       1.050847
           201810       1.022727
           201811       1.021739
                           …
272        201902       1.066667
           201903       1.060000
           201904       1.018519
           201905       1.176471
           201906       1.088235
Length: 3169, dtype: float64
```

[14]:
```python
# Total number of chips per transaction for each store and month

CPT = df.groupby(['STORE_NBR', 'YEARMONTH']).PROD_QTY.sum() / df.
 ↪groupby(['STORE_NBR', 'YEARMONTH']).TXN_ID.nunique()
CPT
```

[14]:
```
STORE_NBR  YEARMONTH
1          201807       1.192308
           201808       1.255814
           201809       1.209677
           201810       1.288889
           201811       1.212766
                           …
272        201902       1.895833
           201903       1.905660
           201904       1.909091
           201905       1.775000
           201906       1.891892
Length: 3169, dtype: float64
```

[15]:
```python
# Monthly store average price per unit

PPU = df.groupby(['STORE_NBR', 'YEARMONTH']).TOT_SALES.sum() / df.
 ↪groupby(['STORE_NBR', 'YEARMONTH']).PROD_QTY.sum()
```

```
PPU
```

[15]:
```
STORE_NBR  YEARMONTH
1          201807       3.337097
           201808       3.261111
           201809       3.717333
           201810       3.243103
           201811       3.378947
                          …
272        201902       4.346154
           201903       4.379208
           201904       4.239048
           201905       4.430986
           201906       4.458571
Length: 3169, dtype: float64
```

[16]:
```
# Concatenating the above generated dataframes.

conc_dfs = [Sales, Customers, TPC, CPT, PPU]
conc_dfs
```

[16]:
```
[STORE_NBR  YEARMONTH
 1          201807       206.9
            201808       176.1
            201809       278.8
            201810       188.1
            201811       192.6
                         …
 272        201902       395.5
            201903       442.3
            201904       445.1
            201905       314.6
            201906       312.1
 Name: TOT_SALES, Length: 3169, dtype: float64,
 STORE_NBR  YEARMONTH
 1          201807       49
            201808       42
            201809       59
            201810       44
            201811       46
                         ..
 272        201902       45
            201903       50
            201904       54
            201905       34
            201906       34
 Name: LYLTY_CARD_NBR, Length: 3169, dtype: int64,
```

```
STORE_NBR  YEARMONTH
1          201807       1.061224
           201808       1.023810
           201809       1.050847
           201810       1.022727
           201811       1.021739
                          …
272        201902       1.066667
           201903       1.060000
           201904       1.018519
           201905       1.176471
           201906       1.088235
Length: 3169, dtype: float64,
STORE_NBR  YEARMONTH
1          201807       1.192308
           201808       1.255814
           201809       1.209677
           201810       1.288889
           201811       1.212766
                          …
272        201902       1.895833
           201903       1.905660
           201904       1.909091
           201905       1.775000
           201906       1.891892
Length: 3169, dtype: float64,
STORE_NBR  YEARMONTH
1          201807       3.337097
           201808       3.261111
           201809       3.717333
           201810       3.243103
           201811       3.378947
                          …
272        201902       4.346154
           201903       4.379208
           201904       4.239048
           201905       4.430986
           201906       4.458571
Length: 3169, dtype: float64]
```

[17]:
```
type(conc_dfs)
```

[17]:
```
list
```

[18]:
```
# They have the same length and so we can concatenate them.

over_time_measure = pd.concat(conc_dfs, join = 'outer', axis = 1)
```

```
over_time_measure
```

[18]:
```
                    TOT_SALES  LYLTY_CARD_NBR         0         1         2
STORE_NBR YEARMONTH
1         201807        206.9              49  1.061224  1.192308  3.337097
          201808        176.1              42  1.023810  1.255814  3.261111
          201809        278.8              59  1.050847  1.209677  3.717333
          201810        188.1              44  1.022727  1.288889  3.243103
          201811        192.6              46  1.021739  1.212766  3.378947
…                         …             …        …        …        …
272       201902        395.5              45  1.066667  1.895833  4.346154
          201903        442.3              50  1.060000  1.905660  4.379208
          201904        445.1              54  1.018519  1.909091  4.239048
          201905        314.6              34  1.176471  1.775000  4.430986
          201906        312.1              34  1.088235  1.891892  4.458571

[3169 rows x 5 columns]
```

[19]:
```
type(over_time_measure)
```

[19]:
```
pandas.core.frame.DataFrame
```

[20]:
```
over_time_measure.rename(columns = {'TOT_SALES': 'totSales', 'LYLTY_CARD_NBR':␣
↪'nCustomers', 0: 'nChipsPerCust', 1: 'nChipsPerTxn', 2: 'avgPricePerUnit'},␣
↪inplace = True)
over_time_measure.head()
```

[20]:
```
                    totSales  nCustomers  nChipsPerCust  nChipsPerTxn  \
STORE_NBR YEARMONTH
1         201807       206.9          49       1.061224      1.192308
          201808       176.1          42       1.023810      1.255814
          201809       278.8          59       1.050847      1.209677
          201810       188.1          44       1.022727      1.288889
          201811       192.6          46       1.021739      1.212766

                    avgPricePerUnit
STORE_NBR YEARMONTH
1         201807           3.337097
          201808           3.261111
          201809           3.717333
          201810           3.243103
          201811           3.378947
```

[21]:
```
# Which stores do not have full observation i.e. have months where there is no␣
↪transaction for chips
```

```python
check_nulls = pd.pivot_table(df, index = 'STORE_NBR', columns = 'YEARMONTH',
    values = 'TXN_ID', aggfunc = 'count')
check_nulls
```

[21]:
```
YEARMONTH  201807  201808  201809  201810  201811  201812  201901  201902  \
STORE_NBR
1            52.0    43.0    62.0    45.0    47.0    47.0    36.0    55.0
2            41.0    43.0    37.0    43.0    40.0    38.0    45.0    32.0
3           138.0   134.0   119.0   119.0   118.0   129.0   121.0   139.0
4           160.0   151.0   138.0   155.0   139.0   133.0   168.0   102.0
5           120.0   112.0   125.0   107.0   111.0   125.0   118.0   106.0
…             …      …      …      …      …      …      …      …
268          52.0    54.0    34.0    48.0    51.0    43.0    38.0    37.0
269         139.0   132.0   124.0   148.0   136.0   133.0   144.0   133.0
270         139.0   154.0   126.0   119.0   133.0   149.0   155.0   125.0
271         129.0   101.0   114.0   114.0   122.0   117.0   120.0   102.0
272          52.0    48.0    36.0    51.0    45.0    47.0    50.0    48.0

YEARMONTH  201903  201904  201905  201906
STORE_NBR
1            49.0    43.0    51.0    43.0
2            46.0    49.0    50.0    42.0
3           130.0   110.0   123.0   122.0
4           135.0   137.0   126.0   134.0
5            97.0   109.0   104.0   127.0
…             …      …      …
268          47.0    50.0    52.0    40.0
269         122.0   139.0   130.0   127.0
270         143.0   132.0   128.0   127.0
271         101.0   109.0   127.0   129.0
272          53.0    56.0    40.0    37.0

[272 rows x 12 columns]
```

[22]:
```python
check_nulls.isnull().sum()
```

[22]:
```
YEARMONTH
201807    6
201808    9
201809    8
201810    7
201811    8
201812    9
201901    9
201902    8
201903    7
201904    7
```

```
201905    9
201906    8
dtype: int64
```

[23]:
```
check_nulls.isnull()
```

[23]:
```
YEARMONTH  201807  201808  201809  201810  201811  201812  201901  201902  \
STORE_NBR
1           False   False   False   False   False   False   False   False
2           False   False   False   False   False   False   False   False
3           False   False   False   False   False   False   False   False
4           False   False   False   False   False   False   False   False
5           False   False   False   False   False   False   False   False
…           …     …     …     …     …     …     …     …
268         False   False   False   False   False   False   False   False
269         False   False   False   False   False   False   False   False
270         False   False   False   False   False   False   False   False
271         False   False   False   False   False   False   False   False
272         False   False   False   False   False   False   False   False

YEARMONTH  201903  201904  201905  201906
STORE_NBR
1           False   False   False   False
2           False   False   False   False
3           False   False   False   False
4           False   False   False   False
5           False   False   False   False
…           …     …     …     …
268         False   False   False   False
269         False   False   False   False
270         False   False   False   False
271         False   False   False   False
272         False   False   False   False

[272 rows x 12 columns]
```

[24]:
```
check_nulls.isnull().any()
```

[24]:
```
YEARMONTH
201807    True
201808    True
201809    True
201810    True
201811    True
201812    True
201901    True
201902    True
```

```
201903    True
201904    True
201905    True
201906    True
dtype: bool
```

[25]:
```
check_nulls.isnull().any(axis=1)
```

[25]:
```
STORE_NBR
1      False
2      False
3      False
4      False
5      False
       …
268    False
269    False
270    False
271    False
272    False
Length: 272, dtype: bool
```

[26]:
```
check_nulls[check_nulls.isnull().any(axis=1)]
```

[26]:
```
YEARMONTH  201807  201808  201809  201810  201811  201812  201901  201902  \
STORE_NBR
11            NaN     NaN     NaN     1.0     NaN     1.0     NaN     NaN
31            NaN     NaN     1.0     NaN     1.0     NaN     NaN     NaN
44            4.0     NaN     3.0     5.0     4.0     7.0     5.0     4.0
76            NaN     NaN     NaN     1.0     NaN     NaN     NaN     NaN
85            3.0     NaN     NaN     NaN     NaN     NaN     NaN     NaN
92            NaN     NaN     NaN     NaN     NaN     NaN     NaN     NaN
117           1.0     4.0     4.0     7.0     7.0     8.0     NaN     2.0
193           NaN     NaN     NaN     NaN     NaN     NaN     1.0     1.0
206           1.0     NaN     NaN     NaN     NaN     NaN     NaN     NaN
211           1.0     NaN     NaN     NaN     NaN     NaN     NaN     NaN
218           6.0    11.0     5.0     9.0     8.0     NaN     7.0     1.0
252           NaN     1.0     NaN     NaN     NaN     NaN     NaN     NaN

YEARMONTH  201903  201904  201905  201906
STORE_NBR
11            NaN     NaN     NaN     NaN
31            NaN     NaN     NaN     NaN
44            6.0     5.0     6.0     9.0
76            NaN     NaN     NaN     NaN
85            NaN     NaN     NaN     NaN
92            1.0     NaN     NaN     NaN
```

```
117             2.0     5.0     4.0     2.0
193             NaN     NaN     NaN     1.0
206             NaN     1.0     NaN     NaN
211             NaN     1.0     NaN     NaN
218             5.0     7.0     4.0     4.0
252             1.0     NaN     NaN     NaN
```

[27]:
```
check_nulls[check_nulls.isnull().any(axis=1)].index
```

[27]:
```
Int64Index([11, 31, 44, 76, 85, 92, 117, 193, 206, 211, 218, 252],
dtype='int64', name='STORE_NBR')
```

[28]:
```
null_store = check_nulls[check_nulls.isnull().any(axis=1)].index.tolist()
null_store
```

[28]:
```
[11, 31, 44, 76, 85, 92, 117, 193, 206, 211, 218, 252]
```

[29]:
```
len(null_store)
```

[29]:
```
12
```

We need to delete these rows from the over_time_measure dataframe. Let us check its index.

[30]:
```
over_time_measure.index
```

[30]:
```
MultiIndex([(  1, 201807),
            (  1, 201808),
            (  1, 201809),
            (  1, 201810),
            (  1, 201811),
            (  1, 201812),
            (  1, 201901),
            (  1, 201902),
            (  1, 201903),
            (  1, 201904),
            …
            (272, 201809),
            (272, 201810),
            (272, 201811),
            (272, 201812),
            (272, 201901),
            (272, 201902),
            (272, 201903),
            (272, 201904),
            (272, 201905),
            (272, 201906)],
           names=['STORE_NBR', 'YEARMONTH'], length=3169)
```

Let us reset its index.

[31]:
```
over_time_measure.reset_index(inplace=True)
over_time_measure.head()
```

[31]:
```
   STORE_NBR  YEARMONTH  totSales  nCustomers  nChipsPerCust  nChipsPerTxn  \
0          1     201807     206.9          49       1.061224      1.192308
1          1     201808     176.1          42       1.023810      1.255814
2          1     201809     278.8          59       1.050847      1.209677
3          1     201810     188.1          44       1.022727      1.288889
4          1     201811     192.6          46       1.021739      1.212766

   avgPricePerUnit
0         3.337097
1         3.261111
2         3.717333
3         3.243103
4         3.378947
```

[32]:
```
over_time_measure['STORE_NBR'].isin(null_store)
```

[32]:
```
0       False
1       False
2       False
3       False
4       False
        …
3164    False
3165    False
3166    False
3167    False
3168    False
Name: STORE_NBR, Length: 3169, dtype: bool
```

[33]:
```
~over_time_measure['STORE_NBR'].isin(null_store)
```

[33]:
```
0       True
1       True
2       True
3       True
4       True
        …
3164    True
3165    True
3166    True
3167    True
3168    True
Name: STORE_NBR, Length: 3169, dtype: bool
```

[34]:
```
over_time_measure = over_time_measure[~over_time_measure['STORE_NBR'].
 ↪isin(null_store)]
over_time_measure
```

[34]:
```
      STORE_NBR  YEARMONTH  totSales  nCustomers  nChipsPerCust  nChipsPerTxn  \
0             1     201807     206.9          49       1.061224      1.192308
1             1     201808     176.1          42       1.023810      1.255814
2             1     201809     278.8          59       1.050847      1.209677
3             1     201810     188.1          44       1.022727      1.288889
4             1     201811     192.6          46       1.021739      1.212766
…           …        …        …           …             …           …
3164        272     201902     395.5          45       1.066667      1.895833
3165        272     201903     442.3          50       1.060000      1.905660
3166        272     201904     445.1          54       1.018519      1.909091
3167        272     201905     314.6          34       1.176471      1.775000
3168        272     201906     312.1          34       1.088235      1.891892

      avgPricePerUnit
0            3.337097
1            3.261111
2            3.717333
3            3.243103
4            3.378947
…                 …
3164         4.346154
3165         4.379208
3166         4.239048
3167         4.430986
3168         4.458571

[3120 rows x 7 columns]
```

[35]:
```
# Create new dataframe 'preTrialMeasures'
# Filter to pre-trial period i.e. before 201902

preTrialMeasures = over_time_measure.loc[over_time_measure['YEARMONTH'] <␣
 ↪201902, :]
preTrialMeasures
```

[35]:
```
      STORE_NBR  YEARMONTH  totSales  nCustomers  nChipsPerCust  nChipsPerTxn  \
0             1     201807     206.9          49       1.061224      1.192308
1             1     201808     176.1          42       1.023810      1.255814
2             1     201809     278.8          59       1.050847      1.209677
3             1     201810     188.1          44       1.022727      1.288889
4             1     201811     192.6          46       1.021739      1.212766
…           …        …        …           …             …           …
3159        272     201809     304.7          32       1.125000      1.972222
```

```
3160         272     201810     430.6          44       1.136364       1.980000
3161         272     201811     376.2          41       1.097561       1.933333
3162         272     201812     403.9          47       1.000000       1.893617
3163         272     201901     423.0          46       1.086957       1.920000

      avgPricePerUnit
0            3.337097
1            3.261111
2            3.717333
3            3.243103
4            3.378947
…                 …
3159         4.291549
3160         4.349495
3161         4.324138
3162         4.538202
3163         4.406250

[1820 rows x 7 columns]
```

Let us create a function which calculates the correlation between trial store and other stores based on a metric.

[36]:
```python
def calculateCorrelation(inputTable, metric, trial_store):
    output = pd.DataFrame({'Store1': [], 'Store2': [], 'Correlation': []})
    a = inputTable.loc[inputTable['STORE_NBR'] == trial_store, metric]
    a.reset_index(drop = True, inplace = True)
    storeNumbers = inputTable['STORE_NBR'].unique()
    for i in storeNumbers:
        b = inputTable.loc[inputTable['STORE_NBR'] == i, metric]
        b.reset_index(drop = True, inplace = True)
        output = output.append({'Store1': trial_store, 'Store2': i,␣
 ↪'Correlation': b.corr(a)}, ignore_index = True)
    return output
```

Let us create another function which calculates a standardised magnitude difference.

[37]:
```python
def calculateMagnitudeDistance(inputTable, metric, trial_store):

    output = pd.DataFrame({'Store1': [], 'Store2': [], 'Magnitude' : []})
    a = inputTable.loc[inputTable['STORE_NBR'] == trial_store, metric]
    a.reset_index(drop = True, inplace = True)
    storeNumbers = inputTable['STORE_NBR'].unique()
    for i in storeNumbers:
        b = inputTable.loc[inputTable['STORE_NBR'] == i, metric]
        b.reset_index(drop = True, inplace = True)
        c = abs(a-b)
        d = np.mean(1-(c-min(c))/(max(c)-min(c)))
```

```
        output = output.append({'Store1': trial_store, 'Store2': i, 'Magnitude':
 ↪ d}, ignore_index = True)
    return output
```

1.1.2 Choosing the Control Store for the Trail Store Number 77

We will use the two functions above to find the control store.

[38]:
```
trial_store = 77
corr_nSales = calculateCorrelation(preTrialMeasures, 'totSales', trial_store)
corr_nCustomers = calculateCorrelation(preTrialMeasures, 'nCustomers',␣
 ↪trial_store)

magnitude_nSales = calculateMagnitudeDistance(preTrialMeasures, 'totSales',␣
 ↪trial_store)
magnitude_nCustomers = calculateMagnitudeDistance(preTrialMeasures,␣
 ↪'nCustomers', trial_store)
```

```
C:\Users\simmy\AppData\Local\Temp\ipykernel_28324\3406195960.py:9:
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```

```
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```

```
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  output = output.append({'Store1': trial_store, 'Store2': i, 'Correlation':
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  output = output.append({'Store1': trial_store, 'Store2': i, 'Magnitude': d},
ignore_index = True)
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```

```
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```

```
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ignore_index = True)
C:\Users\simmy\AppData\Local\Temp\ipykernel_28324\1839306395.py:12:
```

```
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ignore_index = True)
C:\Users\simmy\AppData\Local\Temp\ipykernel_28324\1839306395.py:12:
FutureWarning: The frame.append method is deprecated and will be removed from
pandas in a future version. Use pandas.concat instead.
  output = output.append({'Store1': trial_store, 'Store2': i, 'Magnitude': d},
ignore_index = True)
```

[39]:
```
corr_nSales.head()
```

[39]:

	Store1	Store2	Correlation
0	77.0	1.0	0.075218
1	77.0	2.0	-0.263079
2	77.0	3.0	0.806644
3	77.0	4.0	-0.263300
4	77.0	5.0	-0.110652

[40]:
```
magnitude_nSales.head()
```

[40]:

	Store1	Store2	Magnitude
0	77.0	1.0	0.408163
1	77.0	2.0	0.590119
2	77.0	3.0	0.522914
3	77.0	4.0	0.644934
4	77.0	5.0	0.516320

We will concatenate the above two dataframes.

[41]:
```
score_nSales = pd.concat([corr_nSales, magnitude_nSales['Magnitude']], axis = 1)
score_nSales.head()
```

[41]:

	Store1	Store2	Correlation	Magnitude
0	77.0	1.0	0.075218	0.408163
1	77.0	2.0	-0.263079	0.590119
2	77.0	3.0	0.806644	0.522914
3	77.0	4.0	-0.263300	0.644934
4	77.0	5.0	-0.110652	0.516320

We need to add average weight.

[42]:
```
corr_weight = 0.5
score_nSales['scoreNSales'] = corr_weight * score_nSales['Correlation'] + (1 -␣
 ↪corr_weight) * score_nSales['Magnitude']
score_nSales.head()
```

[42]:

	Store1	Store2	Correlation	Magnitude	scoreNSales
0	77.0	1.0	0.075218	0.408163	0.241691
1	77.0	2.0	-0.263079	0.590119	0.163520
2	77.0	3.0	0.806644	0.522914	0.664779
3	77.0	4.0	-0.263300	0.644934	0.190817
4	77.0	5.0	-0.110652	0.516320	0.202834

We will repeat the same steps above for 'nCustomers'.

[43]:
```
score_nCustomers = pd.concat([corr_nCustomers,␣
 ↪magnitude_nCustomers['Magnitude']], axis = 1)
score_nCustomers['scoreNCust'] = corr_weight * score_nCustomers['Correlation']␣
 ↪+ (1 - corr_weight) * score_nCustomers['Magnitude']
score_nCustomers.head()
```

[43]:

	Store1	Store2	Correlation	Magnitude	scoreNCust
0	77.0	1.0	0.322168	0.663866	0.493017
1	77.0	2.0	-0.572051	0.471429	-0.050311
2	77.0	3.0	0.834207	0.489796	0.662002
3	77.0	4.0	-0.295639	0.498258	0.101310
4	77.0	5.0	0.370659	0.512605	0.441632

Let us reset the index and concatenate the two dataframes above.

[44]:
```
score_nSales.set_index(['Store1', 'Store2'], inplace = True)
score_nCustomers.set_index(['Store1', 'Store2'], inplace = True)

score_Control = pd.concat([score_nSales['scoreNSales'],␣
↪score_nCustomers['scoreNCust']], axis = 1)
score_Control
```

[44]:
```
               scoreNSales  scoreNCust
Store1 Store2
77.0   1.0        0.241691    0.493017
       2.0        0.163520   -0.050311
       3.0        0.664779    0.662002
       4.0        0.190817    0.101310
       5.0        0.202834    0.441632
…                    …          …
       268.0      0.387272    0.470473
       269.0      0.121684    0.005090
       270.0      0.453489    0.202710
       271.0      0.348289    0.174100
       272.0      0.320626    0.384336

[260 rows x 2 columns]
```

Now we will compute the average of 'scoreNSales' and 'scoreNCust' and add it as a new column.

[45]:
```
score_Control['finalControlScore'] = 0.5 * (score_Control['scoreNSales'] +␣
↪score_Control['scoreNCust'])
score_Control.head()
```

[45]:
```
               scoreNSales  scoreNCust  finalControlScore
Store1 Store2
77.0   1.0        0.241691    0.493017           0.367354
       2.0        0.163520   -0.050311           0.056604
       3.0        0.664779    0.662002           0.663390
       4.0        0.190817    0.101310           0.146064
       5.0        0.202834    0.441632           0.322233
```

Let's check the top 5 stores with highest 'finalControlScore'.

[46]:
```
score_Control.sort_values(by = 'finalControlScore', ascending = False).head()
```

[46]:
```
               scoreNSales  scoreNCust  finalControlScore
Store1 Store2
77.0   233.0      0.697290    0.816607           0.756949
       71.0       0.789497    0.663123           0.726310
       84.0       0.656972    0.715000           0.685986
       119.0      0.636046    0.729729           0.682887
       115.0      0.708347    0.645155           0.676751
```

We can see that store 233 match store 77 better than other according the finalControlScore. let's check visually if the drivers are indeed similar to store 77 before the trial period

[47]:
```
control_store = 233

pastSales = preTrialMeasures

# Create a new column within 'pastSales' which categorises store type
store_type = []

for i in pastSales['STORE_NBR']:
    if i == trial_store:
        store_type.append('Trial Store')
    elif i == control_store:
        store_type.append('Control Store')
    else:
        store_type.append('Other Stores')

pastSales['store_type'] = store_type
pastSales['store_type'].unique()
```

```
C:\Users\simmy\AppData\Local\Temp\ipykernel_28324\2242281755.py:16:
SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-
docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
  pastSales['store_type'] = store_type
```

[47]:
```
array(['Other Stores', 'Trial Store', 'Control Store'], dtype=object)
```

[48]:
```
pastSales.head()
```

[48]:
```
   STORE_NBR  YEARMONTH  totSales  nCustomers  nChipsPerCust  nChipsPerTxn  \
0          1     201807     206.9          49       1.061224      1.192308
1          1     201808     176.1          42       1.023810      1.255814
2          1     201809     278.8          59       1.050847      1.209677
3          1     201810     188.1          44       1.022727      1.288889
4          1     201811     192.6          46       1.021739      1.212766

   avgPricePerUnit    store_type
0         3.337097  Other Stores
1         3.261111  Other Stores
2         3.717333  Other Stores
3         3.243103  Other Stores
4         3.378947  Other Stores
```

[49]:
```
pastSales.dtypes
```

[49]:
```
STORE_NBR            int64
YEARMONTH            int64
totSales           float64
nCustomers           int64
nChipsPerCust      float64
nChipsPerTxn       float64
avgPricePerUnit    float64
store_type          object
dtype: object
```

We can see that the YEARMONTH has an integer data type and needs to be converted to date. We will do that by adding a new column.

[50]:
```
pastSales['TransactionMonth'] = pd.to_datetime(pastSales['YEARMONTH'].
  ↪astype(str), format = '%Y%m')
pastSales.head()
```

```
C:\Users\simmy\AppData\Local\Temp\ipykernel_28324\498602497.py:1:
SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-
docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
  pastSales['TransactionMonth'] =
pd.to_datetime(pastSales['YEARMONTH'].astype(str), format = '%Y%m')
```

[50]:

	STORE_NBR	YEARMONTH	totSales	nCustomers	nChipsPerCust	nChipsPerTxn	\
0	1	201807	206.9	49	1.061224	1.192308	
1	1	201808	176.1	42	1.023810	1.255814	
2	1	201809	278.8	59	1.050847	1.209677	
3	1	201810	188.1	44	1.022727	1.288889	
4	1	201811	192.6	46	1.021739	1.212766	

	avgPricePerUnit	store_type	TransactionMonth
0	3.337097	Other Stores	2018-07-01
1	3.261111	Other Stores	2018-08-01
2	3.717333	Other Stores	2018-09-01
3	3.243103	Other Stores	2018-10-01
4	3.378947	Other Stores	2018-11-01

We need to create 'totSales' visualisation for control store, trial store and other stores. Let us create relevant dataframes for each one.

[51]:
```
controlSalesPlot = pastSales.loc[pastSales['store_type'] == 'Control Store',␣
  ↪['TransactionMonth', 'totSales']]
controlSalesPlot
```

[51]:

	TransactionMonth	totSales
2699	2018-07-01	290.7
2700	2018-08-01	285.9
2701	2018-09-01	228.6
2702	2018-10-01	185.7
2703	2018-11-01	211.6
2704	2018-12-01	279.8
2705	2019-01-01	177.5

[52]:
```
controlSalesPlot.set_index('TransactionMonth', inplace = True)
controlSalesPlot
```

[52]:

TransactionMonth	totSales
2018-07-01	290.7
2018-08-01	285.9
2018-09-01	228.6
2018-10-01	185.7
2018-11-01	211.6
2018-12-01	279.8
2019-01-01	177.5

[53]:
```
controlSalesPlot.rename(columns = {'totSales': 'Control Store'}, inplace = True)
controlSalesPlot
```

[53]:

TransactionMonth	Control Store
2018-07-01	290.7
2018-08-01	285.9
2018-09-01	228.6
2018-10-01	185.7
2018-11-01	211.6
2018-12-01	279.8
2019-01-01	177.5

[54]:
```
# The same has been done for Trail and Others.
trialSalesPlot = pastSales.loc[pastSales['store_type'] == 'Trial Store',␣
 ↪['TransactionMonth', 'totSales']]
trialSalesPlot.set_index('TransactionMonth', inplace = True)
trialSalesPlot.rename(columns = {'totSales': 'Trial Store'}, inplace = True)
otherSalesPlot = pastSales.loc[pastSales['store_type'] == 'Other Stores',␣
 ↪['TransactionMonth', 'totSales']]
otherSalesPlot = pd.DataFrame(otherSalesPlot.groupby('TransactionMonth').
 ↪totSales.mean())
otherSalesPlot.rename(columns = {'totSales': 'Other Stores'}, inplace = True)
```

[55]:
```
trialSalesPlot
```

[55]:

TransactionMonth	Trial Store
2018-07-01	296.8
2018-08-01	255.5
2018-09-01	225.2
2018-10-01	204.5
2018-11-01	245.3
2018-12-01	267.3
2019-01-01	204.4

[56]:
```
otherSalesPlot
```

[56]:

TransactionMonth	Other Stores
2018-07-01	638.004651
2018-08-01	610.223450
2018-09-01	620.198450
2018-10-01	635.314729
2018-11-01	618.864341
2018-12-01	648.453876
2019-01-01	628.684496

Let us combine the above created dataframes and then visualize.

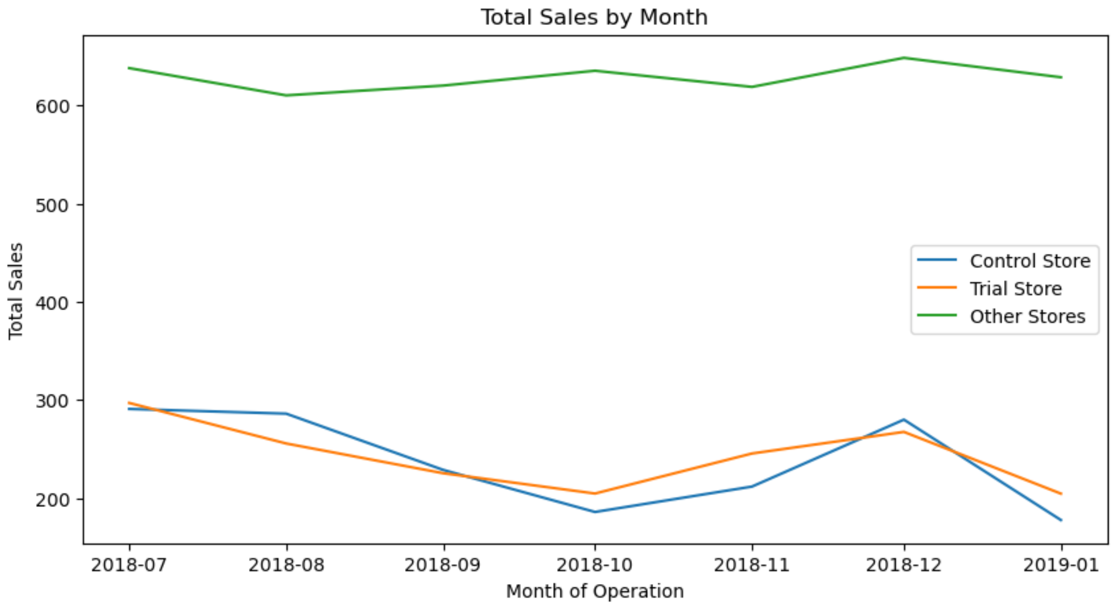
[57]:
```
combineSalesPlot = pd.concat([controlSalesPlot, trialSalesPlot, otherSalesPlot], axis = 1)
combineSalesPlot
```

[57]:

TransactionMonth	Control Store	Trial Store	Other Stores
2018-07-01	290.7	296.8	638.004651
2018-08-01	285.9	255.5	610.223450
2018-09-01	228.6	225.2	620.198450
2018-10-01	185.7	204.5	635.314729
2018-11-01	211.6	245.3	618.864341
2018-12-01	279.8	267.3	648.453876
2019-01-01	177.5	204.4	628.684496

[58]:
```
plt.figure(figsize = (10, 5))
plt.plot(combineSalesPlot)
plt.title('Total Sales by Month')
plt.xlabel('Month of Operation')
plt.ylabel('Total Sales')
plt.legend(['Control Store', 'Trial Store', 'Other Stores'], loc = 5)
```

[58]: <matplotlib.legend.Legend at 0x2355f519700>



The same steps can be repeated for 'nCustomers'.

[59]:
```
# First create relevant dataframes
controlCustomersPlot = pastSales.loc[pastSales['store_type'] == 'Control␣
↪Store', ['TransactionMonth', 'nCustomers']]
controlCustomersPlot.set_index('TransactionMonth', inplace = True)
controlCustomersPlot.rename(columns = {'nCustomers': 'Control Store'}, inplace␣
↪= True)
trialCustomersPlot = pastSales.loc[pastSales['store_type'] == 'Trial Store',␣
↪['TransactionMonth', 'nCustomers']]
trialCustomersPlot.set_index('TransactionMonth', inplace = True)
trialCustomersPlot.rename(columns = {'nCustomers': 'Trial Store'}, inplace =␣
↪True)
otherCustomersPlot = pastSales.loc[pastSales['store_type'] == 'Other Stores',␣
↪['TransactionMonth', 'nCustomers']]
otherCustomersPlot = pd.DataFrame(otherCustomersPlot.
↪groupby('TransactionMonth').nCustomers.mean())
otherCustomersPlot.rename(columns = {'nCustomers': 'Other Stores'}, inplace =␣
↪True)

# Concatenate
combineCustomersPlot = pd.concat([controlCustomersPlot, trialCustomersPlot,␣
↪otherCustomersPlot], axis = 1)
combineCustomersPlot
```

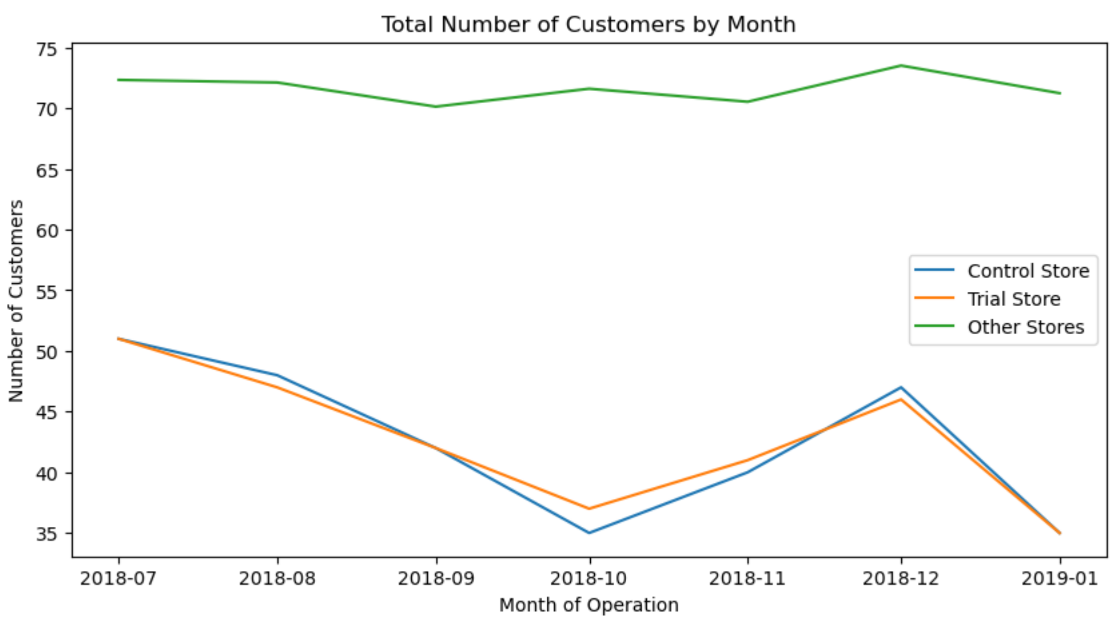
[59]:

TransactionMonth	Control Store	Trial Store	Other Stores
2018-07-01	51	51	72.333333
2018-08-01	48	47	72.120155
2018-09-01	42	42	70.131783
2018-10-01	35	37	71.608527
2018-11-01	40	41	70.534884
2018-12-01	47	46	73.515504
2019-01-01	35	35	71.240310

[60]:

```
plt.figure(figsize = (10, 5))
plt.plot(combineCustomersPlot)
plt.title('Total Number of Customers by Month')
plt.xlabel('Month of Operation')
plt.ylabel('Number of Customers')
plt.legend(['Control Store', 'Trial Store', 'Other Stores'], loc = 5)
```

[60]: <matplotlib.legend.Legend at 0x2356109a5e0>



1.1.3 Trail Assessment of the Trail Store Number 77

Let us investigate if was an uplift in the chips sales in the trail period (start of February 2019 to end of April 2019).

We will need to figure out a scaling factor to apply to the control store. We will calculate it by dividing sum of 'totSales' for trial store by sum of 'totSales' for control store.

[61]:
```
trial_sum = preTrialMeasures.loc[preTrialMeasures['store_type'] == 'Trial␣
↪Store' , 'totSales'].sum()
control_sum = preTrialMeasures.loc[preTrialMeasures['store_type'] == 'Control␣
↪Store', 'totSales'].sum()
scalingFactorSales = trial_sum / control_sum
scalingFactorSales
```

[61]:
```
1.023617303289553
```

Now let us just pick up the control store which was 233 from the measureOverTime dataframe.

[62]:
```
scaledControlSales = over_time_measure.loc[over_time_measure['STORE_NBR'] ==␣
↪control_store]
scaledControlSales
```

[62]:
```
      STORE_NBR  YEARMONTH  totSales  nCustomers  nChipsPerCust  nChipsPerTxn  \
2699        233     201807     290.7          51       1.058824      1.629630
2700        233     201808     285.9          48       1.041667      1.600000
2701        233     201809     228.6          42       1.071429      1.555556
2702        233     201810     185.7          35       1.028571      1.555556
2703        233     201811     211.6          40       1.025000      1.512195
2704        233     201812     279.8          47       1.063830      1.500000
2705        233     201901     177.5          35       1.000000      1.342857
2706        233     201902     244.0          45       1.044444      1.489362
2707        233     201903     199.1          40       1.025000      1.439024
2708        233     201904     158.6          30       1.066667      1.437500
2709        233     201905     344.4          57       1.087719      1.483871
2710        233     201906     221.0          41       1.000000      1.487805

      avgPricePerUnit
2699         3.303409
2700         3.573750
2701         3.265714
2702         3.316071
2703         3.412903
2704         3.730667
2705         3.776596
2706         3.485714
2707         3.374576
2708         3.447826
2709         3.743478
2710         3.622951
```

Let us now apply 'scalingFactorSales' to 'totSales' column.

[63]:
```
scaledControlSales['controlSales'] = scaledControlSales['totSales'] *␣
↪scalingFactorSales
scaledControlSales.head()
```

```
C:\Users\simmy\AppData\Local\Temp\ipykernel_28324\2759188921.py:1:
SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-
docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
  scaledControlSales['controlSales'] = scaledControlSales['totSales'] *
scalingFactorSales
```

[63]:

```
      STORE_NBR  YEARMONTH  totSales  nCustomers  nChipsPerCust  nChipsPerTxn  \
2699        233     201807     290.7          51       1.058824      1.629630
2700        233     201808     285.9          48       1.041667      1.600000
2701        233     201809     228.6          42       1.071429      1.555556
2702        233     201810     185.7          35       1.028571      1.555556
2703        233     201811     211.6          40       1.025000      1.512195

      avgPricePerUnit  controlSales
2699         3.303409    297.565550
2700         3.573750    292.652187
2701         3.265714    233.998916
2702         3.316071    190.085733
2703         3.412903    216.597421
```

[64]:

```
# Create 'percentageDiff' dataframe
percentageDiff = scaledControlSales[['YEARMONTH', 'controlSales']]
percentageDiff.reset_index(drop = True, inplace = True)

# Concatenate with trial store 'totSales'
trialSales = over_time_measure.loc[over_time_measure['STORE_NBR'] ==␣
 ↪trial_store, 'totSales']
trialSales.reset_index(drop = True, inplace = True)
percentageDiff = pd.concat([percentageDiff, trialSales], axis = 1)
percentageDiff.rename(columns = {'totSales': 'trialSales'}, inplace = True)

percentageDiff
```

[64]:

```
   YEARMONTH  controlSales  trialSales
0     201807    297.565550       296.8
1     201808    292.652187       255.5
2     201809    233.998916       225.2
3     201810    190.085733       204.5
4     201811    216.597421       245.3
5     201812    286.408121       267.3
6     201901    181.692071       204.4
7     201902    249.762622       235.0
8     201903    203.802205       278.5
```

```
9       201904    162.345704       263.5
10      201905    352.533799       299.3
11      201906    226.219424       264.7
```

Let us find percentage difference and add it as a new column to the dataframe above.

[65]:
```
percentageDiff['percentageDiff'] = abs(percentageDiff.controlSales -
 ↪percentageDiff.trialSales) / percentageDiff.controlSales
percentageDiff
```

[65]:

	YEARMONTH	controlSales	trialSales	percentageDiff
0	201807	297.565550	296.8	0.002573
1	201808	292.652187	255.5	0.126950
2	201809	233.998916	225.2	0.037602
3	201810	190.085733	204.5	0.075830
4	201811	216.597421	245.3	0.132516
5	201812	286.408121	267.3	0.066716
6	201901	181.692071	204.4	0.124980
7	201902	249.762622	235.0	0.059107
8	201903	203.802205	278.5	0.366521
9	201904	162.345704	263.5	0.623080
10	201905	352.533799	299.3	0.151003
11	201906	226.219424	264.7	0.170103

The null hypothesis is such that the trial period is the same as the pre-trial period. Let's also take the standard deviation based on the scaled percentage difference in the pre-trial period.

[66]:
```
stdDev = stdev(percentageDiff.loc[percentageDiff['YEARMONTH'] < 201902,
 ↪'percentageDiff'])
stdDev
```

[66]: 0.04994076264142537

Since we have 8 pre-trial months, the degree of freedom = 8 - 1 = 7. We will test with a null hypothesis of there being 0 difference between trial and control stores.

[67]:
```
dof = 7

percentageDiff['tValue'] = (percentageDiff['percentageDiff'] - 0) / stdDev
percentageDiff.loc[(percentageDiff['YEARMONTH'] > 201901) &
 ↪(percentageDiff['YEARMONTH'] < 201905), 'tValue']
```

[67]:
```
7     1.183534
8     7.339116
9    12.476373
Name: tValue, dtype: float64
```

Let us find the 95th percentile of the t distribution with dof = 7.

[68]:
```
t.isf(0.05, dof)
```

[68]: 1.8945786050613054

We can see that the t-value is much larger than the 95th percentile value of the t-distribution for March and April.

Let us visualize now. We need to add a month column first. Then we create a new dataframe and Extract 'controlSales' from 'scaledControlSales' dataframe for control store.

[69]:
```
scaledControlSales['TransactionMonth'] = pd.
 ↪to_datetime(scaledControlSales['YEARMONTH'].astype(str), format = '%Y%m')
scaledControlSales
```

```
C:\Users\simmy\AppData\Local\Temp\ipykernel_28324\96609374.py:1:
SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-
docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
  scaledControlSales['TransactionMonth'] =
pd.to_datetime(scaledControlSales['YEARMONTH'].astype(str), format = '%Y%m')
```

[69]:
```
      STORE_NBR  YEARMONTH  totSales  nCustomers  nChipsPerCust  nChipsPerTxn  \
2699        233     201807     290.7          51       1.058824      1.629630
2700        233     201808     285.9          48       1.041667      1.600000
2701        233     201809     228.6          42       1.071429      1.555556
2702        233     201810     185.7          35       1.028571      1.555556
2703        233     201811     211.6          40       1.025000      1.512195
2704        233     201812     279.8          47       1.063830      1.500000
2705        233     201901     177.5          35       1.000000      1.342857
2706        233     201902     244.0          45       1.044444      1.489362
2707        233     201903     199.1          40       1.025000      1.439024
2708        233     201904     158.6          30       1.066667      1.437500
2709        233     201905     344.4          57       1.087719      1.483871
2710        233     201906     221.0          41       1.000000      1.487805

      avgPricePerUnit  controlSales TransactionMonth
2699         3.303409    297.565550       2018-07-01
2700         3.573750    292.652187       2018-08-01
2701         3.265714    233.998916       2018-09-01
2702         3.316071    190.085733       2018-10-01
2703         3.412903    216.597421       2018-11-01
2704         3.730667    286.408121       2018-12-01
2705         3.776596    181.692071       2019-01-01
2706         3.485714    249.762622       2019-02-01
2707         3.374576    203.802205       2019-03-01
2708         3.447826    162.345704       2019-04-01
```

```
2709          3.743478    352.533799       2019-05-01
2710          3.622951    226.219424       2019-06-01
```

[70]:
```
controlSales = scaledControlSales.loc[:, ['TransactionMonth', 'controlSales']]
controlSales.set_index('TransactionMonth', inplace = True)
controlSales.rename(columns = {'controlSales': 'Control Sales'}, inplace = True)
controlSales
```

[70]:
```
                  Control Sales
TransactionMonth
2018-07-01           297.565550
2018-08-01           292.652187
2018-09-01           233.998916
2018-10-01           190.085733
2018-11-01           216.597421
2018-12-01           286.408121
2019-01-01           181.692071
2019-02-01           249.762622
2019-03-01           203.802205
2019-04-01           162.345704
2019-05-01           352.533799
2019-06-01           226.219424
```

Let us also create a new column 'TransationMonth' under 'over_time_measure' dataframe and then Extract 'totSales' for trial store from 'over_time_measure'.

[71]:
```
over_time_measure['TransactionMonth'] = pd.
 ↪to_datetime(over_time_measure['YEARMONTH'].astype(str), format = '%Y%m')
over_time_measure.head()
```

```
C:\Users\simmy\AppData\Local\Temp\ipykernel_28324\2817902854.py:1:
SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-
docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
  over_time_measure['TransactionMonth'] =
pd.to_datetime(over_time_measure['YEARMONTH'].astype(str), format = '%Y%m')
```

[71]:
```
   STORE_NBR  YEARMONTH  totSales  nCustomers  nChipsPerCust  nChipsPerTxn  \
0          1     201807     206.9          49       1.061224      1.192308
1          1     201808     176.1          42       1.023810      1.255814
2          1     201809     278.8          59       1.050847      1.209677
3          1     201810     188.1          44       1.022727      1.288889
4          1     201811     192.6          46       1.021739      1.212766

   avgPricePerUnit TransactionMonth
```

```
0          3.337097       2018-07-01
1          3.261111       2018-08-01
2          3.717333       2018-09-01
3          3.243103       2018-10-01
4          3.378947       2018-11-01
```

[72]:
```
trialSales = over_time_measure.loc[over_time_measure['STORE_NBR'] ==␣
↪trial_store, ['TransactionMonth', 'totSales']]
trialSales.set_index('TransactionMonth', inplace = True)
trialSales.rename(columns = {'totSales': 'Trial Sales'}, inplace = True)
trialSales
```

[72]:
```
                  Trial Sales
TransactionMonth
2018-07-01              296.8
2018-08-01              255.5
2018-09-01              225.2
2018-10-01              204.5
2018-11-01              245.3
2018-12-01              267.3
2019-01-01              204.4
2019-02-01              235.0
2019-03-01              278.5
2019-04-01              263.5
2019-05-01              299.3
2019-06-01              264.7
```

Let us also create two new columns under 'controlSales' which calculates the 5% and 95% confidence interval. After that we Merge the two dataframes together 'controlSales' and 'trialSales'.

[73]:
```
controlSales['Control 5% Confidence Interval'] = controlSales['Control Sales']␣
↪* (1 - stdDev*2)
controlSales['Control 95% Confidence Interval'] = controlSales['Control Sales']␣
↪* (1 + stdDev*2)
controlSales
```

[73]:
```
                  Control Sales  Control 5% Confidence Interval  \
TransactionMonth
2018-07-01           297.565550                      267.844249
2018-08-01           292.652187                      263.421640
2018-09-01           233.998916                      210.626747
2018-10-01           190.085733                      171.099680
2018-11-01           216.597421                      194.963341
2018-12-01           286.408121                      257.801241
2019-01-01           181.692071                      163.544390
2019-02-01           249.762622                      224.815950
2019-03-01           203.802205                      183.446130
2019-04-01           162.345704                      146.130368
```

```
2019-05-01          352.533799                    317.322186
2019-06-01          226.219424                    203.624283

                  Control 95% Confidence Interval
TransactionMonth
2018-07-01                             327.286851
2018-08-01                             321.882734
2018-09-01                             257.371084
2018-10-01                             209.071786
2018-11-01                             238.231502
2018-12-01                             315.015001
2019-01-01                             199.839753
2019-02-01                             274.709294
2019-03-01                             224.158280
2019-04-01                             178.561041
2019-05-01                             387.745413
2019-06-01                             248.814565
```

[74]:

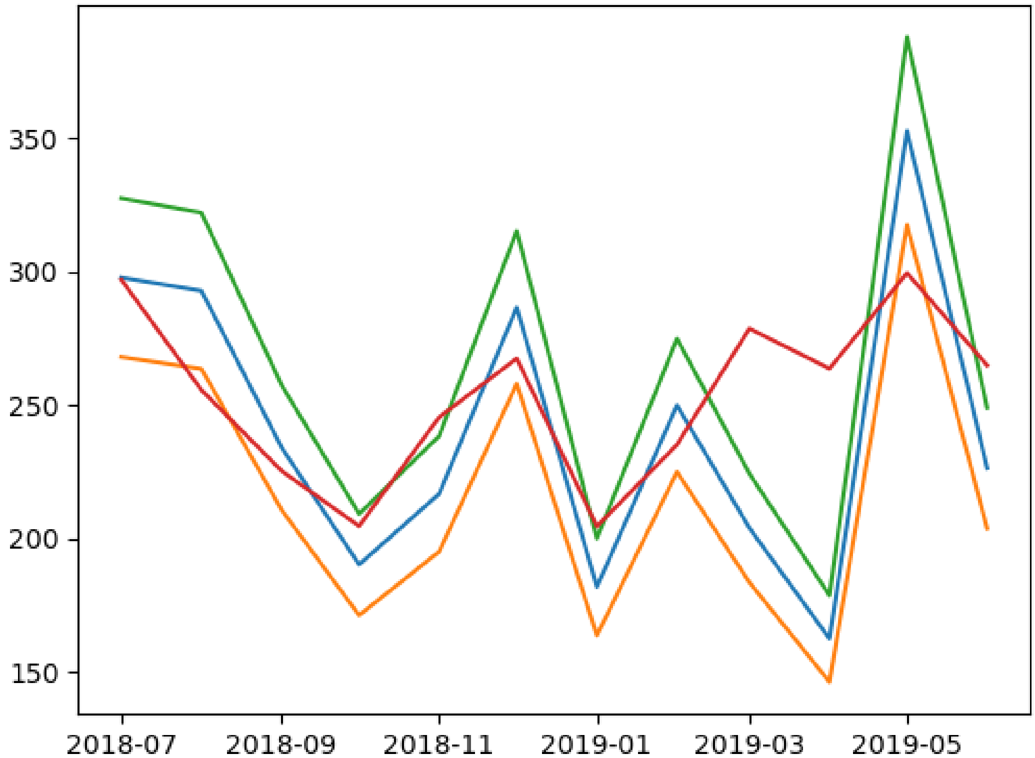
```
combineSales = pd.merge(controlSales, trialSales, left_index = True,␣
 ↪right_index = True)
combineSales
```

[74]:

```
                  Control Sales  Control 5% Confidence Interval  \
TransactionMonth
2018-07-01          297.565550                    267.844249
2018-08-01          292.652187                    263.421640
2018-09-01          233.998916                    210.626747
2018-10-01          190.085733                    171.099680
2018-11-01          216.597421                    194.963341
2018-12-01          286.408121                    257.801241
2019-01-01          181.692071                    163.544390
2019-02-01          249.762622                    224.815950
2019-03-01          203.802205                    183.446130
2019-04-01          162.345704                    146.130368
2019-05-01          352.533799                    317.322186
2019-06-01          226.219424                    203.624283

                  Control 95% Confidence Interval  Trial Sales
TransactionMonth
2018-07-01                             327.286851        296.8
2018-08-01                             321.882734        255.5
2018-09-01                             257.371084        225.2
2018-10-01                             209.071786        204.5
2018-11-01                             238.231502        245.3
2018-12-01                             315.015001        267.3
2019-01-01                             199.839753        204.4
2019-02-01                             274.709294        235.0
```

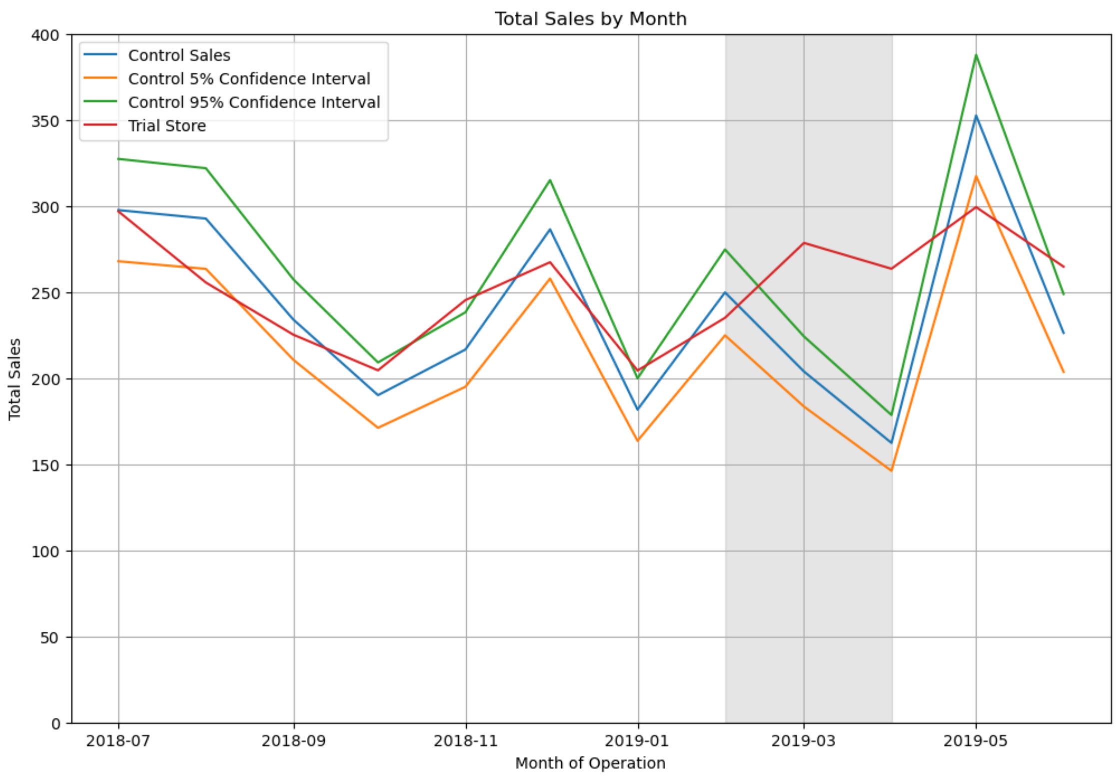
2019-03-01	224.158280	278.5
2019-04-01	178.561041	263.5
2019-05-01	387.745413	299.3
2019-06-01	248.814565	264.7

[75]:
```
plt.plot(combineSales);
```



[76]:
```
# Make it bigger
plt.figure(figsize = (12, 8))
plt.plot(combineSales)

# Set graph title and axis title
plt.title('Total Sales by Month')
plt.xlabel('Month of Operation')
plt.ylabel('Total Sales')

# Set legend
plt.legend(['Control Sales', 'Control 5% Confidence Interval', 'Control 95%␣
↪Confidence Interval', 'Trial Store'], loc = 2)

# Set new y-axis limit
plt.ylim((0, 400))
```

```
# Highlight trial period
plt.axvspan(*mdates.datestr2num(['2019-02-01', '2019-04-01']), color = 'grey',␣
↪alpha = 0.2)

# Set grid
plt.grid()
plt.show()
```



The results above show that the trial in store 77 is significantly different to its control store in the trial period. The trial store performance lies outside the 5% and 95% confidence intervals in the two of the 3 trial months.

We will repeat almost the same procedures for nCustomers.

[77]:
```
trial_customers = preTrialMeasures.loc[preTrialMeasures['store_type'] == 'Trial␣
↪Store' , 'nCustomers'].sum()
control_customers = preTrialMeasures.loc[preTrialMeasures['store_type'] ==␣
↪'Control Store', 'nCustomers'].sum()
scalingFactorCustomers = trial_customers / control_customers
scalingFactorCustomers
```

[77]: 1.0033557046979866

[78]:
```
scaledControlCustomers = over_time_measure.loc[over_time_measure['STORE_NBR']␣
↪== control_store]
scaledControlCustomers.head()
```

[78]:
```
      STORE_NBR  YEARMONTH  totSales  nCustomers  nChipsPerCust  nChipsPerTxn  \
2699        233     201807     290.7          51       1.058824      1.629630
2700        233     201808     285.9          48       1.041667      1.600000
2701        233     201809     228.6          42       1.071429      1.555556
2702        233     201810     185.7          35       1.028571      1.555556
2703        233     201811     211.6          40       1.025000      1.512195

      avgPricePerUnit TransactionMonth
2699         3.303409       2018-07-01
2700         3.573750       2018-08-01
2701         3.265714       2018-09-01
2702         3.316071       2018-10-01
2703         3.412903       2018-11-01
```

[79]:
```
scaledControlCustomers['controlCustomers'] =␣
↪scaledControlCustomers['nCustomers'] * scalingFactorCustomers
scaledControlCustomers.head()
```

```
C:\Users\simmy\AppData\Local\Temp\ipykernel_28324\3566400364.py:1:
SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-
docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
  scaledControlCustomers['controlCustomers'] =
scaledControlCustomers['nCustomers'] * scalingFactorCustomers
```

[79]:
```
      STORE_NBR  YEARMONTH  totSales  nCustomers  nChipsPerCust  nChipsPerTxn  \
2699        233     201807     290.7          51       1.058824      1.629630
2700        233     201808     285.9          48       1.041667      1.600000
2701        233     201809     228.6          42       1.071429      1.555556
2702        233     201810     185.7          35       1.028571      1.555556
2703        233     201811     211.6          40       1.025000      1.512195

      avgPricePerUnit TransactionMonth  controlCustomers
2699         3.303409       2018-07-01         51.171141
2700         3.573750       2018-08-01         48.161074
2701         3.265714       2018-09-01         42.140940
2702         3.316071       2018-10-01         35.117450
2703         3.412903       2018-11-01         40.134228
```

[80]:
```
percentageDiff = scaledControlCustomers[['YEARMONTH', 'controlCustomers']]
percentageDiff.reset_index(drop = True, inplace = True)

trialCustomers = over_time_measure.loc[over_time_measure['STORE_NBR'] ==
    trial_store, 'nCustomers']
trialCustomers.reset_index(drop = True, inplace = True)
percentageDiff = pd.concat([percentageDiff, trialCustomers], axis = 1)
percentageDiff.rename(columns = {'nCustomers': 'trialCustomers'}, inplace =
    True)

percentageDiff
```

[80]:

	YEARMONTH	controlCustomers	trialCustomers
0	201807	51.171141	51
1	201808	48.161074	47
2	201809	42.140940	42
3	201810	35.117450	37
4	201811	40.134228	41
5	201812	47.157718	46
6	201901	35.117450	35
7	201902	45.151007	45
8	201903	40.134228	50
9	201904	30.100671	47
10	201905	57.191275	55
11	201906	41.137584	41

[81]:
```
percentageDiff['percentageDiff'] = abs(percentageDiff.controlCustomers -
    percentageDiff.trialCustomers) / percentageDiff.controlCustomers
percentageDiff
```

[81]:

	YEARMONTH	controlCustomers	trialCustomers	percentageDiff
0	201807	51.171141	51	0.003344
1	201808	48.161074	47	0.024108
2	201809	42.140940	42	0.003344
3	201810	35.117450	37	0.053607
4	201811	40.134228	41	0.021572
5	201812	47.157718	46	0.024550
6	201901	35.117450	35	0.003344
7	201902	45.151007	45	0.003344
8	201903	40.134228	50	0.245819
9	201904	30.100671	47	0.561427
10	201905	57.191275	55	0.038315
11	201906	41.137584	41	0.003344

[82]:
```
stdDev = stdev(percentageDiff.loc[percentageDiff['YEARMONTH'] < 201902,
    'percentageDiff'])
stdDev
```

[82]: 0.018240748558243945

[83]:
```
percentageDiff['tValue'] = (percentageDiff['percentageDiff'] - 0) / stdDev
percentageDiff.loc[(percentageDiff['YEARMONTH'] > 201901) &␣
↪(percentageDiff['YEARMONTH'] < 201905), 'tValue']
```

[83]:
```
7     0.183352
8    13.476388
9    30.778725
Name: tValue, dtype: float64
```

[84]:
```
t.isf(0.05, dof)
```

[84]: 1.8945786050613054

We can see that the t-value is much larger than the 95th percentile value of the t-distribution for March and April.

[85]:
```
controlCustomers = scaledControlCustomers.loc[:, ['TransactionMonth',␣
↪'controlCustomers']]
controlCustomers.set_index('TransactionMonth', inplace = True)
controlCustomers.rename(columns = {'controlCustomers': 'Control Customers'},␣
↪inplace = True)
controlCustomers
```

[85]:
```
                  Control Customers
TransactionMonth
2018-07-01                51.171141
2018-08-01                48.161074
2018-09-01                42.140940
2018-10-01                35.117450
2018-11-01                40.134228
2018-12-01                47.157718
2019-01-01                35.117450
2019-02-01                45.151007
2019-03-01                40.134228
2019-04-01                30.100671
2019-05-01                57.191275
2019-06-01                41.137584
```

[86]:
```
trialCustomers = over_time_measure.loc[over_time_measure['STORE_NBR'] ==␣
↪trial_store, ['TransactionMonth', 'nCustomers']]
trialCustomers.set_index('TransactionMonth', inplace = True)
trialCustomers.rename(columns = {'nCustomers': 'Trial Customers'}, inplace =␣
↪True)
trialCustomers
```

[86]:

```
                  Trial Customers
TransactionMonth
2018-07-01                     51
2018-08-01                     47
2018-09-01                     42
2018-10-01                     37
2018-11-01                     41
2018-12-01                     46
2019-01-01                     35
2019-02-01                     45
2019-03-01                     50
2019-04-01                     47
2019-05-01                     55
2019-06-01                     41
```

[87]:

```
controlCustomers['Control 5% Confidence Interval'] = controlCustomers['Control␣
↪Customers'] * (1 - stdDev*2)
controlCustomers['Control 95% Confidence Interval'] = controlCustomers['Control␣
↪Customers'] * (1 + stdDev*2)
controlCustomers
```

[87]:

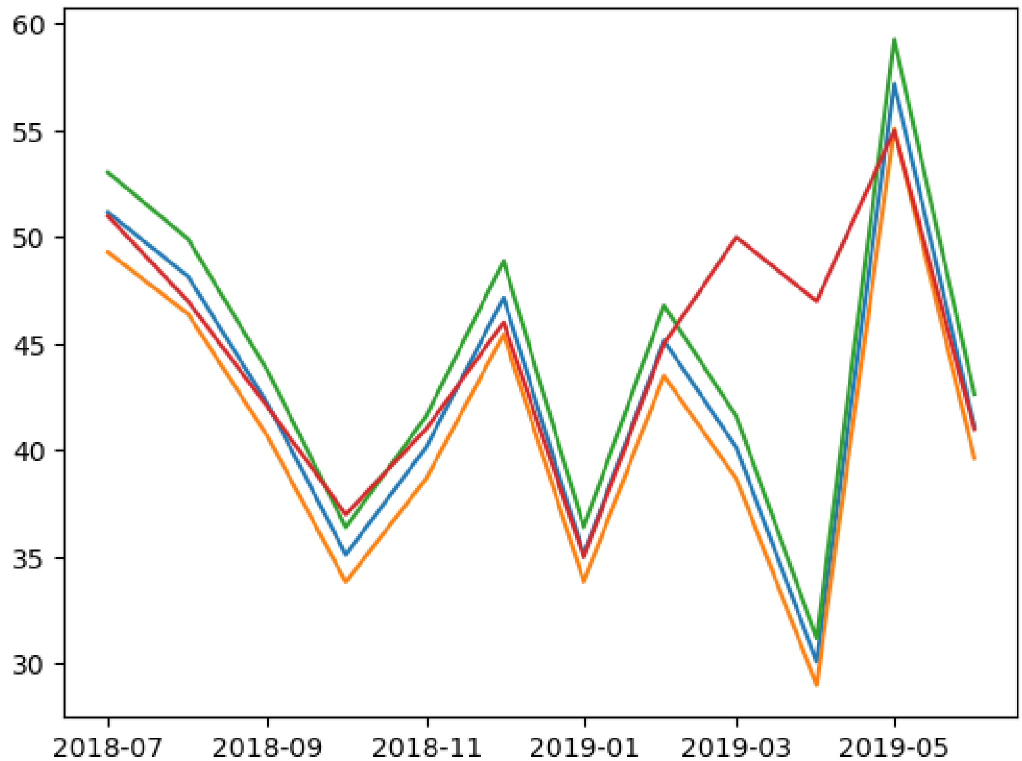
```
                  Control Customers  Control 5% Confidence Interval  \
TransactionMonth
2018-07-01                51.171141                       49.304341
2018-08-01                48.161074                       46.404086
2018-09-01                42.140940                       40.603575
2018-10-01                35.117450                       33.836313
2018-11-01                40.134228                       38.670071
2018-12-01                47.157718                       45.437334
2019-01-01                35.117450                       33.836313
2019-02-01                45.151007                       43.503830
2019-03-01                40.134228                       38.670071
2019-04-01                30.100671                       29.002554
2019-05-01                57.191275                       55.104852
2019-06-01                41.137584                       39.636823

                  Control 95% Confidence Interval
TransactionMonth
2018-07-01                              53.037941
2018-08-01                              49.918062
2018-09-01                              43.678304
2018-10-01                              36.398587
2018-11-01                              41.598385
2018-12-01                              48.878102
2019-01-01                              36.398587
2019-02-01                              46.798183
2019-03-01                              41.598385
```

```
2019-04-01                                 31.198789
2019-05-01                                 59.277699
2019-06-01                                 42.638345
```

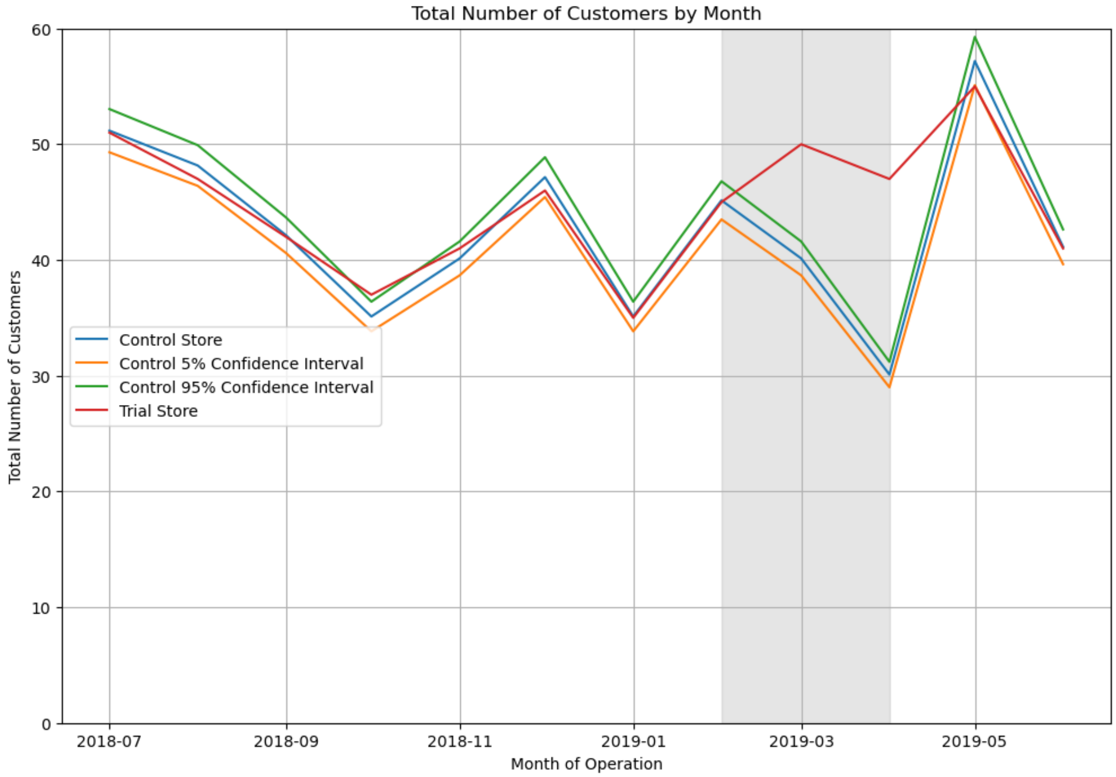
[88]:
```
combineCustomers = pd.merge(controlCustomers, trialCustomers, left_index =␣
 ↪True, right_index = True)
combineCustomers
```

[88]:
```
                  Control Customers  Control 5% Confidence Interval  \
TransactionMonth
2018-07-01                51.171141                        49.304341
2018-08-01                48.161074                        46.404086
2018-09-01                42.140940                        40.603575
2018-10-01                35.117450                        33.836313
2018-11-01                40.134228                        38.670071
2018-12-01                47.157718                        45.437334
2019-01-01                35.117450                        33.836313
2019-02-01                45.151007                        43.503830
2019-03-01                40.134228                        38.670071
2019-04-01                30.100671                        29.002554
2019-05-01                57.191275                        55.104852
2019-06-01                41.137584                        39.636823

                  Control 95% Confidence Interval  Trial Customers
TransactionMonth
2018-07-01                              53.037941               51
2018-08-01                              49.918062               47
2018-09-01                              43.678304               42
2018-10-01                              36.398587               37
2018-11-01                              41.598385               41
2018-12-01                              48.878102               46
2019-01-01                              36.398587               35
2019-02-01                              46.798183               45
2019-03-01                              41.598385               50
2019-04-01                              31.198789               47
2019-05-01                              59.277699               55
2019-06-01                              42.638345               41
```

[89]:
```
plt.plot(combineCustomers);
```



[90]:
```
plt.figure(figsize = (12, 8))
plt.plot(combineCustomers)

plt.title('Total Number of Customers by Month')
plt.xlabel('Month of Operation')
plt.ylabel('Total Number of Customers')

plt.legend(['Control Store', 'Control 5% Confidence Interval', 'Control 95%␣
 ↪Confidence Interval', 'Trial Store'], loc = 6)

plt.ylim((0, 60))

plt.axvspan(*mdates.datestr2num(['2019-02-01', '2019-04-01']), color = 'grey',␣
 ↪alpha = 0.2)

plt.grid()
plt.show()
```



The same procedures achieved above can be repeated for finding the control store and assessing the impact of the trial for the two remaining trial stores, 86 and 88.

2 CONCLUSION

Control stores 233, 155, 237 are for trial stores 77, 86 and 88 respectively. The results for trial stores 77 and 88 during the trial period show a significant difference in at least two of the three trial months but this is not the case for trial store 86. We can check with the client if the implementation of the trial was different in trial store 86 but overall, the trial shows a significant increase in sales.