Introduction

Business problem

According to Bloomberg News, the London Housing Market is in a rut. It is now facing a number of different headwinds, including the prospect of higher taxes and a warning from the Bank of England that U.K. home values could fall as much as 30 percent in the event of a disorderly exit from the European Union. More specifically, four overlooked cracks suggest that the London market may be in worse shape than many realize: hidden price falls, record-low sales, homebuilder exodus and tax hikes addressing overseas buyers of homes in England and Wales.

In this scenario, it is urgent to adopt machine learning tools in order to assist homebuyers clientele in London to make wise and effective decisions. As a result, the business problem we are currently posing is: how could we provide support to homebuyers clientele in to purchase a suitable real estate in London in this uncertain economic and financial scenario?

To solve this business problem, we are going to cluster London neighborhoods in order to recommend venues and the current average price of real estate where homebuyers can make a real estate investment. We will recommend profitable venues according to amenities and essential facilities surrounding such venues i.e. elementary schools, high schools, hospitals & grocery stores.

Data

Data on London properties and the relative price paid data were extracted from the HM Land Registry (http://landregistry.data.gov.uk/). The following fields comprise the address data included in Price Paid Data: Postcode; PAON Primary Addressable Object Name. Typically the house number or name; SAON Secondary Addressable Object Name. If there is a sub-building, for example, the building is divided into flats, there will be a SAON; Street; Locality; Town/City; District; County.

To explore and target recommended locations across different venues according to the presence of amenities and essential facilities, we will access data through FourSquare API interface and arrange them as a dataframe for visualization. By merging data on London properties and the relative price paid data from the HM Land Registry and data on amenities and essential facilities surrounding such properties from FourSquare API interface, we will be able to recommend profitable real estate investments.

Methodology section

The Methodology section will describe the main components of our analysis and predication system. The Methodology section comprises four stages:

1. Collect Inspection Data
2. Explore and Understand Data
3. Data preparation and preprocessing
4. Modeling

Collect Inspection Data

After importing the necessary libraries, we download the data from the HM Land Registry website as follows:

```python
import os # Operating System
import numpy as np
import pandas as pd
import datetime as dt # Datetime
import json # library to handle JSON files

!conda install -c conda-forge geopy --yes
from geopy.geocoders import Nominatim # convert an address into latitude and longitude values

import requests # library to handle requests
from pandas.io.json import json_normalize # tranform JSON file into a pandas dataframe

# Matplotlib and associated plotting modules
import matplotlib.cm as cm
import matplotlib.colors as colors

!conda install -c conda-forge folium=0.5.0 --yes
import folium #import folium # map rendering library

#Read the data for examination (Source: http://landregistry.data.gov.uk/)
df_ppd = pd.read_csv("http://prod2.publicdata.landregistry.gov.uk.s3-website-eu-west-1.amazonaws.com/pp-2018.csv")
```

Explore and Understand Data

We read the dataset that we collected from the HM Land Registry website into a pandas' data frame and display the first five rows of it as follows:

```python
df_ppd.head()
```

```
<style scoped> .dataframe tbody tr th:only-of-type { vertical-align: middle; }
.dataframe tbody tr th {
    vertical-align: top;
}

.dataframe thead th {
    text-align: right;
}
</style>
```

	{666758D7-43A9-3363-E053-6B04A8C0D74E}	405000	2018-01-25 00:00	WR15 8LH	D	N	F	RAMBLERS WAY	Unnamed: 8
0	{666758D7-43AA-3363-E053-6B04A8C0D74E}	315000	2018-01-23 00:00	SY7 8QA	D	N	F	MONT CENISE	NaN
1	{666758D7-43AD-3363-E053-6B04A8C0D74E}	165000	2018-01-19 00:00	SY1 2BF	T	Y	F	42	NaN
2	{666758D7-43B0-3363-E053-6B04A8C0D74E}	370000	2018-01-22 00:00	SY8 4DF	D	N	F	WILLOW HEY	NaN
3	{666758D7-43B3-3363-E053-6B04A8C0D74E}	320000	2018-01-19 00:00	TF10 7ET	D	N	F	3	NaN
4	{666758D7-43B4-3363-E053-6B04A8C0D74E}	180000	2018-01-31 00:00	SY3 0NQ	S	N	F	79	NaN

```
df_ppd.shape
```

```
(1027301, 16)
```

Our dataset consists of over 700000 rows and 16 columns. We will now prepare and preprocess data accordingly.

Data preparation and preprocessing

At this stage, we prepare our dataset for the modeling process, opting for the most suitable machine learning algorithm for our scope. Accordingly, we perform the following steps:

1.Rename the column names
2.Format the date column
3.Sort data by date of sale
4.Select data only for the city of London
5.Make a list of street names in London
6.Calculate the street-wise average price of the property
7.Read the street-wise coordinates into a data frame, eliminating recurring word London from individual names
8.Join the data to find the coordinates of locations which fit into client's budget
9.Plot recommended locations on London map along with current market prices

```python
# Assign meaningful column names
df_ppd.columns = ['TUID', 'Price', 'Date_Transfer', 'Postcode', 'Prop_Type',
'Old_New', 'Duration', 'PAON', \
                  'SAON', 'Street', 'Locality', 'Town_City', 'District', 'County',
'PPD_Cat_Type', 'Record_Status']

# Format the date column
df_ppd['Date_Transfer'] = df_ppd['Date_Transfer'].apply(pd.to_datetime)

# Delete all obsolete transactions which were done before 2016
df_ppd.drop(df_ppd[df_ppd.Date_Transfer.dt.year < 2016].index, inplace=True)

# Sort by Date of Sale
df_ppd.sort_values(by=['Date_Transfer'],ascending=[False],inplace=True)

df_ppd_london = df_ppd.query("Town_City == 'LONDON'")

# Make a list of street names in LONDON
streets = df_ppd_london['Street'].unique().tolist()

df_grp_price = df_ppd_london.groupby(['Street'])['Price'].mean().reset_index()

# Give meaningful names to the columns
df_grp_price.columns = ['Street', 'Avg_Price']

#Input your Budget's Upper Limit and Lower Limit - Find the locations df_grp_price
which fits your budget
df_affordable = df_grp_price.query("(Avg_Price >= 2200000) & (Avg_Price <= 2500000)")

# Display the dataframe
df_affordable
```

```
<style scoped> .dataframe tbody tr th:only-of-type { vertical-align: middle; }
.dataframe tbody tr th {
    vertical-align: top;
}
```

```
.dataframe thead th {
    text-align: right;
}
```
</style>

	Street	A
196	ALBION SQUARE	2.450000e+0
391	ANHALT ROAD	2.435000e+0
406	ANSDELL TERRACE	2.250000e+0
422	APPLEGARTH ROAD	2.400000e+0
855	BARONSMEAD ROAD	2.375000e+0
981	BEAUCLERC ROAD	2.480000e+0
1102	BELVEDERE DRIVE	2.340000e+0
1215	BICKENHALL STREET	2.208500e+0
1253	BIRCHLANDS AVENUE	2.217000e+0
1553	BRAMPTON GROVE	2.456875e+0
1632	BRIARDALE GARDENS	2.397132e+0
1797	BROOKWAY	2.400000e+0
1914	BURBAGE ROAD	2.445000e+0
1980	BURY WALK	2.492500e+0
2068	CALLCOTT STREET	2.375000e+0

	Street	A
2129	CAMPDEN HILL ROAD	2.379653e+0
2136	CAMPION ROAD	2.461000e+0
2158	CANNING PLACE	2.425000e+0
2225	CARLISLE ROAD	2.200000e+0
2230	CARLTON GARDENS	2.483500e+0
2242	CARLYLE COURT	2.300000e+0
2405	CHALCOT SQUARE	2.286679e+0
2483	CHARLES LANE	2.414000e+0
2561	CHELSEA CRESCENT	2.495000e+0
2605	CHESTER CLOSE NORTH	2.450000e+0
2637	CHEYNE COURT	2.250000e+0
2640	CHEYNE ROW	2.410000e+0
2685	CHISWICK MALL	2.287500e+0
2760	CITY ROAD	2.468340e+0
2807	CLARENDON STREET	2.250000e+0
...	...	...
10924	RUSSELL GARDENS MEWS	2.300000e+0

	Street	A
11171	SETTLES STREET	2.487500e+0
11246	SHELDON AVENUE	2.349542e+0
11480	SOUTH END ROW	2.470000e+0
11558	SOUTHWOOD LAWN ROAD	2.350000e+0
11561	SOVEREIGN PARK	2.500000e+0
11778	ST MARGARETS CRESCENT	2.216500e+0
11814	ST OSWALDS PLACE	2.250000e+0
11834	ST PETERS SQUARE	2.468730e+0
11871	STAFFORD TERRACE	2.355000e+0
12210	SUTHERLAND PLACE	2.456000e+0
12272	SYDNEY STREET	2.240833e+0
12414	THAMES BANK	2.400000e+0
12476	THE HEXAGON	2.335000e+0
12755	TREDEGAR SQUARE	2.436666e+0
12817	TRINITY STREET	2.317500e+0
12967	UPPER HAMPSTEAD WALK	2.500000e+0
13229	WALPOLE GARDENS	2.303500e+0

	Street	A
13231	WALPOLE STREET	2.242500e+0
13305	WARWICK SQUARE	2.432273e+0
13403	WELBECK WAY	2.267000e+0
13415	WELLESLEY TERRACE	2.410000e+0
13426	WELLINGTON STREET	2.293155e+0
13558	WESTMORELAND PLACE	2.300000e+0
13665	WHITFIELD STREET	2.451000e+0
13710	WILFRED STREET	2.410538e+0
13736	WILLOW BRIDGE ROAD	2.425000e+0
13756	WILSON STREET	2.257500e+0
13784	WINCHENDON ROAD	2.350000e+0
13821	WINGATE ROAD	2.206400e+0

162 rows × 2 columns

```python
import pandas as pd
import numpy as np
import datetime as DT
import hmac
from geopy.geocoders import Nominatim
from geopy.distance import vincenty
# import k-means from clustering stage
from sklearn.cluster import KMeans

for index, item in df_affordable.iterrows():
    print(f"index: {index}")
    print(f"item: {item}")
    print(f"item.Street only: {item.Street}")
```

```
index: 196
item: Street        ALBION SQUARE
Avg_Price          2.45e+06
Name: 196, dtype: object
item.Street only: ALBION SQUARE
index: 391
item: Street        ANHALT ROAD
Avg_Price      2.435e+06
Name: 391, dtype: object
item.Street only: ANHALT ROAD
index: 406
item: Street        ANSDELL TERRACE
Avg_Price          2.25e+06
Name: 406, dtype: object
item.Street only: ANSDELL TERRACE
index: 422
item: Street        APPLEGARTH ROAD
Avg_Price           2.4e+06
Name: 422, dtype: object
item.Street only: APPLEGARTH ROAD
index: 855
item: Street        BARONSMEAD ROAD
Avg_Price      2.375e+06
Name: 855, dtype: object
item.Street only: BARONSMEAD ROAD
index: 981
item: Street        BEAUCLERC ROAD
Avg_Price          2.48e+06
Name: 981, dtype: object
item.Street only: BEAUCLERC ROAD
index: 1102
item: Street        BELVEDERE DRIVE
Avg_Price          2.34e+06
Name: 1102, dtype: object
item.Street only: BELVEDERE DRIVE
index: 1215
item: Street        BICKENHALL STREET
Avg_Price        2.2085e+06
Name: 1215, dtype: object
item.Street only: BICKENHALL STREET
index: 1253
item: Street        BIRCHLANDS AVENUE
Avg_Price         2.217e+06
Name: 1253, dtype: object
item.Street only: BIRCHLANDS AVENUE
index: 1553
item: Street        BRAMPTON GROVE
Avg_Price      2.45688e+06
Name: 1553, dtype: object
item.Street only: BRAMPTON GROVE
index: 1632
item: Street        BRIARDALE GARDENS
Avg_Price      2.39713e+06
Name: 1632, dtype: object
item.Street only: BRIARDALE GARDENS
```

```
index: 1797
item: Street         BROOKWAY
Avg_Price      2.4e+06
Name: 1797, dtype: object
item.Street only: BROOKWAY
index: 1914
item: Street         BURBAGE ROAD
Avg_Price      2.445e+06
Name: 1914, dtype: object
item.Street only: BURBAGE ROAD
index: 1980
item: Street          BURY WALK
Avg_Price     2.4925e+06
Name: 1980, dtype: object
item.Street only: BURY WALK
index: 2068
item: Street         CALLCOTT STREET
Avg_Price         2.375e+06
Name: 2068, dtype: object
item.Street only: CALLCOTT STREET
index: 2129
item: Street         CAMPDEN HILL ROAD
Avg_Price         2.37965e+06
Name: 2129, dtype: object
item.Street only: CAMPDEN HILL ROAD
index: 2136
item: Street         CAMPION ROAD
Avg_Price         2.461e+06
Name: 2136, dtype: object
item.Street only: CAMPION ROAD
index: 2158
item: Street         CANNING PLACE
Avg_Price         2.425e+06
Name: 2158, dtype: object
item.Street only: CANNING PLACE
index: 2225
item: Street         CARLISLE ROAD
Avg_Price         2.2e+06
Name: 2225, dtype: object
item.Street only: CARLISLE ROAD
index: 2230
item: Street         CARLTON GARDENS
Avg_Price         2.4835e+06
Name: 2230, dtype: object
item.Street only: CARLTON GARDENS
index: 2242
item: Street         CARLYLE COURT
Avg_Price         2.3e+06
Name: 2242, dtype: object
item.Street only: CARLYLE COURT
index: 2405
item: Street         CHALCOT SQUARE
Avg_Price         2.28668e+06
Name: 2405, dtype: object
item.Street only: CHALCOT SQUARE
```

```
index: 2483
item: Street        CHARLES LANE
Avg_Price        2.414e+06
Name: 2483, dtype: object
item.Street only: CHARLES LANE
index: 2561
item: Street        CHELSEA CRESCENT
Avg_Price         2.495e+06
Name: 2561, dtype: object
item.Street only: CHELSEA CRESCENT
index: 2605
item: Street        CHESTER CLOSE NORTH
Avg_Price              2.45e+06
Name: 2605, dtype: object
item.Street only: CHESTER CLOSE NORTH
index: 2637
item: Street        CHEYNE COURT
Avg_Price        2.25e+06
Name: 2637, dtype: object
item.Street only: CHEYNE COURT
index: 2640
item: Street        CHEYNE ROW
Avg_Price       2.41e+06
Name: 2640, dtype: object
item.Street only: CHEYNE ROW
index: 2685
item: Street        CHISWICK MALL
Avg_Price       2.2875e+06
Name: 2685, dtype: object
item.Street only: CHISWICK MALL
index: 2760
item: Street         CITY ROAD
Avg_Price    2.46834e+06
Name: 2760, dtype: object
item.Street only: CITY ROAD
index: 2807
item: Street        CLARENDON STREET
Avg_Price             2.25e+06
Name: 2807, dtype: object
item.Street only: CLARENDON STREET
index: 2899
item: Street        CLONCURRY STREET
Avg_Price        2.38833e+06
Name: 2899, dtype: object
item.Street only: CLONCURRY STREET
index: 2943
item: Street       COLBECK MEWS
Avg_Price       2.3675e+06
Name: 2943, dtype: object
item.Street only: COLBECK MEWS
index: 2994
item: Street        COLLEGE CRESCENT
Avg_Price             2.44e+06
Name: 2994, dtype: object
item.Street only: COLLEGE CRESCENT
```

```
index: 3201
item: Street        CORNWALL TERRACE MEWS
Avg_Price                 2.35e+06
Name: 3201, dtype: object
item.Street only: CORNWALL TERRACE MEWS
index: 3254
item: Street        COURT LANE GARDENS
Avg_Price               2.36e+06
Name: 3254, dtype: object
item.Street only: COURT LANE GARDENS
index: 3376
item: Street        CRESCENT GROVE
Avg_Price          2.298e+06
Name: 3376, dtype: object
item.Street only: CRESCENT GROVE
index: 3582
item: Street        DALEBURY ROAD
Avg_Price           2.4e+06
Name: 3582, dtype: object
item.Street only: DALEBURY ROAD
index: 3847
item: Street        DEWHURST ROAD
Avg_Price         2.425e+06
Name: 3847, dtype: object
item.Street only: DEWHURST ROAD
index: 3928
item: Street        DORIA ROAD
Avg_Price     2.3625e+06
Name: 3928, dtype: object
item.Street only: DORIA ROAD
index: 3979
item: Street        DOWNSHIRE HILL
Avg_Price         2.225e+06
Name: 3979, dtype: object
item.Street only: DOWNSHIRE HILL
index: 4034
item: Street        DUCHESS WALK
Avg_Price      2.4775e+06
Name: 4034, dtype: object
item.Street only: DUCHESS WALK
index: 4231
item: Street        ECCLESTON SQUARE MEWS
Avg_Price                 2.3355e+06
Name: 4231, dtype: object
item.Street only: ECCLESTON SQUARE MEWS
index: 4284
item: Street        EGBERT STREET
Avg_Price         2.265e+06
Name: 4284, dtype: object
item.Street only: EGBERT STREET
index: 4288
item: Street        EGERTON PLACE
Avg_Price           2.2e+06
Name: 4288, dtype: object
item.Street only: EGERTON PLACE
```

```
index: 4373
item: Street          ELM PARK ROAD
Avg_Price        2.32042e+06
Name: 4373, dtype: object
item.Street only: ELM PARK ROAD
index: 4891
item: Street          FLORAL STREET
Avg_Price        2.22722e+06
Name: 4891, dtype: object
item.Street only: FLORAL STREET
index: 5012
item: Street          FRANK DIXON WAY
Avg_Price         2.2125e+06
Name: 5012, dtype: object
item.Street only: FRANK DIXON WAY
index: 5094
item: Street          FULTON MEWS
Avg_Price          2.299e+06
Name: 5094, dtype: object
item.Street only: FULTON MEWS
index: 5237
item: Street          GERARD ROAD
Avg_Price         2.2585e+06
Name: 5237, dtype: object
item.Street only: GERARD ROAD
index: 5240
item: Street          GERRARD ROAD
Avg_Price         2.2425e+06
Name: 5240, dtype: object
item.Street only: GERRARD ROAD
index: 5285
item: Street          GIRDLERS ROAD
Avg_Price        2.44167e+06
Name: 5285, dtype: object
item.Street only: GIRDLERS ROAD
index: 5378
item: Street          GLOUCESTER CRESCENT
Avg_Price              2.35083e+06
Name: 5378, dtype: object
item.Street only: GLOUCESTER CRESCENT
index: 5446
item: Street          GORDON PLACE
Avg_Price          2.477e+06
Name: 5446, dtype: object
item.Street only: GORDON PLACE
index: 5482
item: Street          GRAFTON SQUARE
Avg_Price           2.27e+06
Name: 5482, dtype: object
item.Street only: GRAFTON SQUARE
index: 5489
item: Street          GRAHAM TERRACE
Avg_Price          2.325e+06
Name: 5489, dtype: object
item.Street only: GRAHAM TERRACE
```

```
index: 5947
item: Street       HARMAN DRIVE
Avg_Price      2.2625e+06
Name: 5947, dtype: object
item.Street only: HARMAN DRIVE
index: 5971
item: Street       HARRIS STREET
Avg_Price      2.47177e+06
Name: 5971, dtype: object
item.Street only: HARRIS STREET
index: 6034
item: Street       HAVANNAH STREET
Avg_Price      2.21731e+06
Name: 6034, dtype: object
item.Street only: HAVANNAH STREET
index: 6106
item: Street       HAZLEWELL ROAD
Avg_Price            2.5e+06
Name: 6106, dtype: object
item.Street only: HAZLEWELL ROAD
index: 6222
item: Street       HEREFORD MEWS
Avg_Price         2.31e+06
Name: 6222, dtype: object
item.Street only: HEREFORD MEWS
index: 6242
item: Street       HERONDALE AVENUE
Avg_Price          2.475e+06
Name: 6242, dtype: object
item.Street only: HERONDALE AVENUE
index: 6339
item: Street       HIGHGATE HIGH STREET
Avg_Price              2.211e+06
Name: 6339, dtype: object
item.Street only: HIGHGATE HIGH STREET
index: 6354
item: Street       HIGHWOOD HILL
Avg_Price       2.2525e+06
Name: 6354, dtype: object
item.Street only: HIGHWOOD HILL
index: 6390
item: Street       HILLGATE PLACE
Avg_Price            2.2e+06
Name: 6390, dtype: object
item.Street only: HILLGATE PLACE
index: 6501
item: Street       HOLLYCROFT AVENUE
Avg_Price         2.36138e+06
Name: 6501, dtype: object
item.Street only: HOLLYCROFT AVENUE
index: 6505
item: Street       HOLLYWOOD MEWS
Avg_Price          2.35e+06
Name: 6505, dtype: object
item.Street only: HOLLYWOOD MEWS
```

```
index: 6550
item: Street        HONEYWELL ROAD
Avg_Price       2.27833e+06
Name: 6550, dtype: object
item.Street only: HONEYWELL ROAD
index: 6606
item: Street        HORTENSIA ROAD
Avg_Price       2.27592e+06
Name: 6606, dtype: object
item.Street only: HORTENSIA ROAD
index: 6635
item: Street        HOXTON SQUARE
Avg_Price       2.23429e+06
Name: 6635, dtype: object
item.Street only: HOXTON SQUARE
index: 6661
item: Street        HUNTER ROAD
Avg_Price       2.3e+06
Name: 6661, dtype: object
item.Street only: HUNTER ROAD
index: 6820
item: Street        JACKSONS LANE
Avg_Price       2.3625e+06
Name: 6820, dtype: object
item.Street only: JACKSONS LANE
index: 6880
item: Street        JOHN STREET
Avg_Price       2.235e+06
Name: 6880, dtype: object
item.Street only: JOHN STREET
index: 7184
item: Street        KINNERTON STREET
Avg_Price       2.4856e+06
Name: 7184, dtype: object
item.Street only: KINNERTON STREET
index: 7218
item: Street        KNARESBOROUGH PLACE
Avg_Price             2.325e+06
Name: 7218, dtype: object
item.Street only: KNARESBOROUGH PLACE
index: 7238
item: Street        KNOX STREET
Avg_Price       2.25e+06
Name: 7238, dtype: object
item.Street only: KNOX STREET
index: 7258
item: Street        LADBROKE GROVE
Avg_Price       2.4833e+06
Name: 7258, dtype: object
item.Street only: LADBROKE GROVE
index: 7327
item: Street        LANCASTER MEWS
Avg_Price       2.3125e+06
Name: 7327, dtype: object
item.Street only: LANCASTER MEWS
```

```
index: 7397
item: Street        LANSDOWNE ROAD
Avg_Price      2.36488e+06
Name: 7397, dtype: object
item.Street only: LANSDOWNE ROAD
index: 7425
item: Street        LATIMER INDUSTRIAL ESTATE
Avg_Price                    2.4e+06
Name: 7425, dtype: object
item.Street only: LATIMER INDUSTRIAL ESTATE
index: 7478
item: Street        LAXTON PLACE
Avg_Price      2.5e+06
Name: 7478, dtype: object
item.Street only: LAXTON PLACE
index: 7680
item: Street        LINCOLN AVENUE
Avg_Price      2.2035e+06
Name: 7680, dtype: object
item.Street only: LINCOLN AVENUE
index: 7709
item: Street        LINGFIELD ROAD
Avg_Price      2.24875e+06
Name: 7709, dtype: object
item.Street only: LINGFIELD ROAD
index: 7738
item: Street        LISSON STREET
Avg_Price      2.4625e+06
Name: 7738, dtype: object
item.Street only: LISSON STREET
index: 7772
item: Street        LIVERPOOL GROVE
Avg_Price      2.288e+06
Name: 7772, dtype: object
item.Street only: LIVERPOOL GROVE
index: 7864
item: Street        LONGWOOD DRIVE
Avg_Price      2.375e+06
Name: 7864, dtype: object
item.Street only: LONGWOOD DRIVE
index: 7870
item: Street        LONSDALE SQUARE
Avg_Price      2.3575e+06
Name: 7870, dtype: object
item.Street only: LONSDALE SQUARE
index: 8408
item: Street        MAZE HILL
Avg_Price    2.25e+06
Name: 8408, dtype: object
item.Street only: MAZE HILL
index: 8543
item: Street        MIDDLESEX PASSAGE
Avg_Price                2.28e+06
Name: 8543, dtype: object
item.Street only: MIDDLESEX PASSAGE
```

```
index: 8706
item: Street          MONTPELIER AVENUE
Avg_Price              2.5e+06
Name: 8706, dtype: object
item.Street only: MONTPELIER AVENUE
index: 8716
item: Street          MONTPELIER WALK
Avg_Price              2.32e+06
Name: 8716, dtype: object
item.Street only: MONTPELIER WALK
index: 8864
item: Street          MULTON ROAD
Avg_Price          2.3e+06
Name: 8864, dtype: object
item.Street only: MULTON ROAD
index: 8869
item: Street          MUNDEN STREET
Avg_Price          2.25e+06
Name: 8869, dtype: object
item.Street only: MUNDEN STREET
index: 9143
item: Street          NORFOLK CRESCENT
Avg_Price          2.22333e+06
Name: 9143, dtype: object
item.Street only: NORFOLK CRESCENT
index: 9166
item: Street          NORTH CIRCULAR ROAD
Avg_Price              2.39314e+06
Name: 9166, dtype: object
item.Street only: NORTH CIRCULAR ROAD
index: 9242
item: Street          NOTTINGHAM STREET
Avg_Price              2.2275e+06
Name: 9242, dtype: object
item.Street only: NOTTINGHAM STREET
index: 9317
item: Street          OAKLEY STREET
Avg_Price          2.38129e+06
Name: 9317, dtype: object
item.Street only: OAKLEY STREET
index: 9328
item: Street          OAKWOOD COURT
Avg_Price          2.34875e+06
Name: 9328, dtype: object
item.Street only: OAKWOOD COURT
index: 9336
item: Street          OBSERVATORY GARDENS
Avg_Price              2.42e+06
Name: 9336, dtype: object
item.Street only: OBSERVATORY GARDENS
index: 9371
item: Street          OLD COURT PLACE
Avg_Price          2.395e+06
Name: 9371, dtype: object
item.Street only: OLD COURT PLACE
```

```
index: 9432
item: Street        ONSLOW MEWS WEST
Avg_Price                 2.3e+06
Name: 9432, dtype: object
item.Street only: ONSLOW MEWS WEST
index: 9564
item: Street        PALACE PLACE
Avg_Price           2.3e+06
Name: 9564, dtype: object
item.Street only: PALACE PLACE
index: 9593
item: Street        PANTON STREET
Avg_Price         2.475e+06
Name: 9593, dtype: object
item.Street only: PANTON STREET
index: 9612
item: Street        PARK CRESCENT
Avg_Price          2.44e+06
Name: 9612, dtype: object
item.Street only: PARK CRESCENT
index: 9621
item: Street         PARK LANE
Avg_Price     2.2415e+06
Name: 9621, dtype: object
item.Street only: PARK LANE
index: 9642
item: Street         PARKE ROAD
Avg_Price     2.2625e+06
Name: 9642, dtype: object
item.Street only: PARKE ROAD
index: 9645
item: Street         PARKFIELDS
Avg_Price         2.2e+06
Name: 9645, dtype: object
item.Street only: PARKFIELDS
index: 9682
item: Street         PARTHENIA ROAD
Avg_Price        2.20057e+06
Name: 9682, dtype: object
item.Street only: PARTHENIA ROAD
index: 9714
item: Street         PAVILION ROAD
Avg_Price           2.2e+06
Name: 9714, dtype: object
item.Street only: PAVILION ROAD
index: 9775
item: Street         PEMBRIDGE MEWS
Avg_Price         2.251e+06
Name: 9775, dtype: object
item.Street only: PEMBRIDGE MEWS
index: 9777
item: Street         PEMBRIDGE ROAD
Avg_Price             2.4e+06
Name: 9777, dtype: object
item.Street only: PEMBRIDGE ROAD
```

```
index: 9786
item: Street      PEMBROKE STUDIOS
Avg_Price         2.45e+06
Name: 9786, dtype: object
item.Street only: PEMBROKE STUDIOS
index: 9791
item: Street      PENCOMBE MEWS
Avg_Price         2.2e+06
Name: 9791, dtype: object
item.Street only: PENCOMBE MEWS
index: 9871
item: Street      PETERSHAM PLACE
Avg_Price         2.3e+06
Name: 9871, dtype: object
item.Street only: PETERSHAM PLACE
index: 9886
item: Street       PHILLIMORE GARDENS
Avg_Price          2.48467e+06
Name: 9886, dtype: object
item.Street only: PHILLIMORE GARDENS
index: 9894
item: Street      PHYSIC PLACE
Avg_Price         2.5e+06
Name: 9894, dtype: object
item.Street only: PHYSIC PLACE
index: 9932
item: Street      PITFIELD STREET
Avg_Price         2.48333e+06
Name: 9932, dtype: object
item.Street only: PITFIELD STREET
index: 10142
item: Street       PRINCES GATE
Avg_Price      2.40333e+06
Name: 10142, dtype: object
item.Street only: PRINCES GATE
index: 10170
item: Street       PRIORY ROAD
Avg_Price     2.24826e+06
Name: 10170, dtype: object
item.Street only: PRIORY ROAD
index: 10181
item: Street       PROTHERO GARDENS
Avg_Price         2.2025e+06
Name: 10181, dtype: object
item.Street only: PROTHERO GARDENS
index: 10217
item: Street       PUTNEY HIGH STREET
Avg_Price          2.3486e+06
Name: 10217, dtype: object
item.Street only: PUTNEY HIGH STREET
index: 10234
item: Street       QUARRENDON STREET
Avg_Price          2.43775e+06
Name: 10234, dtype: object
item.Street only: QUARRENDON STREET
```

```
index: 10267
item: Street          QUEENS GATE TERRACE
Avg_Price             2.39944e+06
Name: 10267, dtype: object
item.Street only: QUEENS GATE TERRACE
index: 10321
item: Street          RADSTOCK STREET
Avg_Price             2.2175e+06
Name: 10321, dtype: object
item.Street only: RADSTOCK STREET
index: 10366
item: Street          RANELAGH AVENUE
Avg_Price             2.3e+06
Name: 10366, dtype: object
item.Street only: RANELAGH AVENUE
index: 10473
item: Street          REDCLIFFE ROAD
Avg_Price             2.44875e+06
Name: 10473, dtype: object
item.Street only: REDCLIFFE ROAD
index: 10498
item: Street          REEVES MEWS
Avg_Price             2.45e+06
Name: 10498, dtype: object
item.Street only: REEVES MEWS
index: 10555
item: Street          RHEIDOL MEWS
Avg_Price             2.31e+06
Name: 10555, dtype: object
item.Street only: RHEIDOL MEWS
index: 10610
item: Street          RINGWOOD AVENUE
Avg_Price             2.275e+06
Name: 10610, dtype: object
item.Street only: RINGWOOD AVENUE
index: 10690
item: Street          RODERICK ROAD
Avg_Price             2.4e+06
Name: 10690, dtype: object
item.Street only: RODERICK ROAD
index: 10747
item: Street          ROPEMAKERS FIELDS
Avg_Price             2.5e+06
Name: 10747, dtype: object
item.Street only: ROPEMAKERS FIELDS
index: 10861
item: Street          ROYAL CRESCENT
Avg_Price             2.34833e+06
Name: 10861, dtype: object
item.Street only: ROYAL CRESCENT
index: 10867
item: Street          ROYAL HILL
Avg_Price      2.2525e+06
Name: 10867, dtype: object
item.Street only: ROYAL HILL
```

```
index: 10924
item: Street          RUSSELL GARDENS MEWS
Avg_Price                    2.3e+06
Name: 10924, dtype: object
item.Street only: RUSSELL GARDENS MEWS
index: 11171
item: Street          SETTLES STREET
Avg_Price          2.4875e+06
Name: 11171, dtype: object
item.Street only: SETTLES STREET
index: 11246
item: Street          SHELDON AVENUE
Avg_Price          2.34954e+06
Name: 11246, dtype: object
item.Street only: SHELDON AVENUE
index: 11480
item: Street          SOUTH END ROW
Avg_Price             2.47e+06
Name: 11480, dtype: object
item.Street only: SOUTH END ROW
index: 11558
item: Street          SOUTHWOOD LAWN ROAD
Avg_Price                    2.35e+06
Name: 11558, dtype: object
item.Street only: SOUTHWOOD LAWN ROAD
index: 11561
item: Street          SOVEREIGN PARK
Avg_Price              2.5e+06
Name: 11561, dtype: object
item.Street only: SOVEREIGN PARK
index: 11778
item: Street          ST MARGARETS CRESCENT
Avg_Price                   2.2165e+06
Name: 11778, dtype: object
item.Street only: ST MARGARETS CRESCENT
index: 11814
item: Street          ST OSWALDS PLACE
Avg_Price             2.25e+06
Name: 11814, dtype: object
item.Street only: ST OSWALDS PLACE
index: 11834
item: Street          ST PETERS SQUARE
Avg_Price          2.46873e+06
Name: 11834, dtype: object
item.Street only: ST PETERS SQUARE
index: 11871
item: Street          STAFFORD TERRACE
Avg_Price             2.355e+06
Name: 11871, dtype: object
item.Street only: STAFFORD TERRACE
index: 12210
item: Street          SUTHERLAND PLACE
Avg_Price             2.456e+06
Name: 12210, dtype: object
item.Street only: SUTHERLAND PLACE
```

```
index: 12272
item: Street        SYDNEY STREET
Avg_Price      2.24083e+06
Name: 12272, dtype: object
item.Street only: SYDNEY STREET
index: 12414
item: Street        THAMES BANK
Avg_Price      2.4e+06
Name: 12414, dtype: object
item.Street only: THAMES BANK
index: 12476
item: Street        THE HEXAGON
Avg_Price      2.335e+06
Name: 12476, dtype: object
item.Street only: THE HEXAGON
index: 12755
item: Street        TREDEGAR SQUARE
Avg_Price      2.43667e+06
Name: 12755, dtype: object
item.Street only: TREDEGAR SQUARE
index: 12817
item: Street        TRINITY STREET
Avg_Price      2.3175e+06
Name: 12817, dtype: object
item.Street only: TRINITY STREET
index: 12967
item: Street        UPPER HAMPSTEAD WALK
Avg_Price              2.5e+06
Name: 12967, dtype: object
item.Street only: UPPER HAMPSTEAD WALK
index: 13229
item: Street        WALPOLE GARDENS
Avg_Price      2.3035e+06
Name: 13229, dtype: object
item.Street only: WALPOLE GARDENS
index: 13231
item: Street        WALPOLE STREET
Avg_Price      2.2425e+06
Name: 13231, dtype: object
item.Street only: WALPOLE STREET
index: 13305
item: Street        WARWICK SQUARE
Avg_Price      2.43227e+06
Name: 13305, dtype: object
item.Street only: WARWICK SQUARE
index: 13403
item: Street        WELBECK WAY
Avg_Price      2.267e+06
Name: 13403, dtype: object
item.Street only: WELBECK WAY
index: 13415
item: Street        WELLESLEY TERRACE
Avg_Price              2.41e+06
Name: 13415, dtype: object
item.Street only: WELLESLEY TERRACE
```

```
index: 13426
item: Street        WELLINGTON STREET
Avg_Price            2.29316e+06
Name: 13426, dtype: object
item.Street only: WELLINGTON STREET
index: 13558
item: Street        WESTMORELAND PLACE
Avg_Price                  2.3e+06
Name: 13558, dtype: object
item.Street only: WESTMORELAND PLACE
index: 13665
item: Street        WHITFIELD STREET
Avg_Price              2.451e+06
Name: 13665, dtype: object
item.Street only: WHITFIELD STREET
index: 13710
item: Street        WILFRED STREET
Avg_Price        2.41054e+06
Name: 13710, dtype: object
item.Street only: WILFRED STREET
index: 13736
item: Street        WILLOW BRIDGE ROAD
Avg_Price                  2.425e+06
Name: 13736, dtype: object
item.Street only: WILLOW BRIDGE ROAD
index: 13756
item: Street        WILSON STREET
Avg_Price        2.2575e+06
Name: 13756, dtype: object
item.Street only: WILSON STREET
index: 13784
item: Street        WINCHENDON ROAD
Avg_Price                2.35e+06
Name: 13784, dtype: object
item.Street only: WINCHENDON ROAD
index: 13821
item: Street        WINGATE ROAD
Avg_Price        2.2064e+06
Name: 13821, dtype: object
item.Street only: WINGATE ROAD
geolocator = Nominatim()
```

```
/opt/conda/envs/Python36/lib/python3.6/site-packages/ipykernel/__main__.py:1:
DeprecationWarning: Using Nominatim with the default "geopy/1.20.0" `user_agent` is
strongly discouraged, as it violates Nominatim's ToS
https://operations.osmfoundation.org/policies/nominatim/ and may possibly cause 403
and 429 HTTP errors. Please specify a custom `user_agent` with
`Nominatim(user_agent="my-application")` or by overriding the default `user_agent`:
`geopy.geocoders.options.default_user_agent = "my-application"`. In geopy 2.0 this
will become an exception.
  if __name__ == '__main__':
df_affordable['city_coord'] =
df_affordable['Street'].apply(geolocator.geocode).apply(lambda x: (x.latitude,
x.longitude))
```

```
/opt/conda/envs/Python36/lib/python3.6/site-packages/ipykernel/__main__.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: http://pandas.pydata.org/pandas-
docs/stable/indexing.html#indexing-view-versus-copy
  if __name__ == '__main__':
df_affordable
```

`<style scoped>` .dataframe tbody tr th:only-of-type { vertical-align: middle; }
```
.dataframe tbody tr th {
    vertical-align: top;
}

.dataframe thead th {
    text-align: right;
}
```
`</style>`

	Street	Avg_Price	city_coord
196	ALBION SQUARE	2.450000e+06	(-41.27375755, 173.2893932391033
391	ANHALT ROAD	2.435000e+06	(51.4803164, -0.1668011)
406	ANSDELL TERRACE	2.250000e+06	(51.4998899, -0.1891027)
422	APPLEGARTH ROAD	2.400000e+06	(53.7486539, -0.3266704)
855	BARONSMEAD ROAD	2.375000e+06	(51.4773147, -0.239457)
981	BEAUCLERC ROAD	2.480000e+06	(51.4995771, -0.2290331)
1102	BELVEDERE DRIVE	2.340000e+06	(52.4142089, 1.7244152)
1215	BICKENHALL STREET	2.208500e+06	(51.5212014, -0.1589082)
1253	BIRCHLANDS AVENUE	2.217000e+06	(51.4483941, -0.1604676)
1553	BRAMPTON GROVE	2.456875e+06	(51.5899607, -0.3185249)

	Street	Avg_Price	city_coord
1632	BRIARDALE GARDENS	2.397132e+06	(51.5601748, -0.1954305)
1797	BROOKWAY	2.400000e+06	(45.432184899999996, -122.8028
1914	BURBAGE ROAD	2.445000e+06	(51.4482603, -0.0885073)
1980	BURY WALK	2.492500e+06	(52.1455294, -0.4235933)
2068	CALLCOTT STREET	2.375000e+06	(51.5083499, -0.1983276)
2129	CAMPDEN HILL ROAD	2.379653e+06	(51.50141, -0.1951157)
2136	CAMPION ROAD	2.461000e+06	(52.6813749, 0.9654713)
2158	CANNING PLACE	2.425000e+06	(51.4995696, -0.1842477)
2225	CARLISLE ROAD	2.200000e+06	(-36.7091715, 174.7282805)
2230	CARLTON GARDENS	2.483500e+06	(-37.80194335, 144.971970171017
2242	CARLYLE COURT	2.300000e+06	(32.972700950000004, -97.173391
2405	CHALCOT SQUARE	2.286679e+06	(51.5411955, -0.1558168)
2483	CHARLES LANE	2.414000e+06	(51.533837, -0.170298)
2561	CHELSEA CRESCENT	2.495000e+06	(34.522443, -85.443891)
2605	CHESTER CLOSE NORTH	2.450000e+06	(51.5292054, -0.1450813)
2637	CHEYNE COURT	2.250000e+06	(51.599677, 0.5256231)
2640	CHEYNE ROW	2.410000e+06	(51.4837173, -0.169603)

	Street	Avg_Price	city_coord
2685	CHISWICK MALL	2.287500e+06	(51.4871849, -0.2480168)
2760	CITY ROAD	2.468340e+06	(51.5296972, -0.0977626)
2807	CLARENDON STREET	2.250000e+06	(51.36516, 1.1085692)
...	...	...	...
10924	RUSSELL GARDENS MEWS	2.300000e+06	(51.4998689, -0.2118904)
11171	SETTLES STREET	2.487500e+06	(51.5153237, -0.0643266)
11246	SHELDON AVENUE	2.349542e+06	(51.592613, 0.0731449)
11480	SOUTH END ROW	2.470000e+06	(51.4987463, -0.1890787)
11558	SOUTHWOOD LAWN ROAD	2.350000e+06	(51.5746267, -0.146238)
11561	SOVEREIGN PARK	2.500000e+06	(52.6880941, -2.724567251143845
11778	ST MARGARETS CRESCENT	2.216500e+06	(17.0975135, -88.6161153)
11814	ST OSWALDS PLACE	2.250000e+06	(51.4872071, -0.1185341)
11834	ST PETERS SQUARE	2.468730e+06	(41.9022353, 12.45735731029800
11871	STAFFORD TERRACE	2.355000e+06	(51.5009379, -0.1960492)
12210	SUTHERLAND PLACE	2.456000e+06	(51.5166166, -0.1972762)
12272	SYDNEY STREET	2.240833e+06	(51.807082, 1.0239602)
12414	THAMES BANK	2.400000e+06	(52.0856689, -0.2432764)

	Street	Avg_Price	city_coord
12476	THE HEXAGON	2.335000e+06	(51.45388235, -0.97783421810529
12755	TREDEGAR SQUARE	2.436666e+06	(51.5270935, -0.0321842332596600
12817	TRINITY STREET	2.317500e+06	(52.6239349, 1.2821379)
12967	UPPER HAMPSTEAD WALK	2.500000e+06	(51.558467, -0.1774529)
13229	WALPOLE GARDENS	2.303500e+06	(51.4397435, -0.3412634)
13231	WALPOLE STREET	2.242500e+06	(52.6261811, 1.2859311)
13305	WARWICK SQUARE	2.432273e+06	(33.7385632, -117.8465056774648
13403	WELBECK WAY	2.267000e+06	(52.5580053, -0.262309)
13415	WELLESLEY TERRACE	2.410000e+06	(51.5292142, -0.0929327)
13426	WELLINGTON STREET	2.293155e+06	(45.4234495, -75.6980579)
13558	WESTMORELAND PLACE	2.300000e+06	(40.7402242, -111.8463235)
13665	WHITFIELD STREET	2.451000e+06	(51.5229437, -0.1379311)
13710	WILFRED STREET	2.410538e+06	(51.4988397, -0.1392949)
13736	WILLOW BRIDGE ROAD	2.425000e+06	(51.5431088, -0.0955079)
13756	WILSON STREET	2.257500e+06	(30.5977973, -81.595757)
13784	WINCHENDON ROAD	2.350000e+06	(51.4329074, -0.3484547)
13821	WINGATE ROAD	2.206400e+06	(51.092557, 1.1794554)

162 rows × 3 columns

```python
df_affordable[['Latitude', 'Longitude']] =
df_affordable['city_coord'].apply(pd.Series)
```

```
/opt/conda/envs/Python36/lib/python3.6/site-packages/pandas/core/frame.py:3391:
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: http://pandas.pydata.org/pandas-
docs/stable/indexing.html#indexing-view-versus-copy
  self[k1] = value[k2]
df_affordable
```

<style scoped> .dataframe tbody tr th:only-of-type { vertical-align: middle; }
.dataframe tbody tr th {
    vertical-align: top;
}

.dataframe thead th {
    text-align: right;
}
</style>

	Street	Avg_Price	city_coord	Latitu
196	ALBION SQUARE	2.450000e+06	(-41.27375755, 173.28939323910353)	-41.273
391	ANHALT ROAD	2.435000e+06	(51.4803164, -0.1668011)	51.480
406	ANSDELL TERRACE	2.250000e+06	(51.4998899, -0.1891027)	51.499
422	APPLEGARTH ROAD	2.400000e+06	(53.7486539, -0.3266704)	53.748
855	BARONSMEAD ROAD	2.375000e+06	(51.4773147, -0.239457)	51.477
981	BEAUCLERC ROAD	2.480000e+06	(51.4995771, -0.2290331)	51.499
1102	BELVEDERE DRIVE	2.340000e+06	(52.4142089, 1.7244152)	52.414
1215	BICKENHALL STREET	2.208500e+06	(51.5212014, -0.1589082)	51.521

	Street	Avg_Price	city_coord	Latitu
1253	BIRCHLANDS AVENUE	2.217000e+06	(51.4483941, -0.1604676)	51.448
1553	BRAMPTON GROVE	2.456875e+06	(51.5899607, -0.3185249)	51.589
1632	BRIARDALE GARDENS	2.397132e+06	(51.5601748, -0.1954305)	51.560
1797	BROOKWAY	2.400000e+06	(45.432184899999996, -122.80281166115779)	45.432
1914	BURBAGE ROAD	2.445000e+06	(51.4482603, -0.0885073)	51.448
1980	BURY WALK	2.492500e+06	(52.1455294, -0.4235933)	52.145
2068	CALLCOTT STREET	2.375000e+06	(51.5083499, -0.1983276)	51.508
2129	CAMPDEN HILL ROAD	2.379653e+06	(51.50141, -0.1951157)	51.501
2136	CAMPION ROAD	2.461000e+06	(52.6813749, 0.9654713)	52.681
2158	CANNING PLACE	2.425000e+06	(51.4995696, -0.1842477)	51.499
2225	CARLISLE ROAD	2.200000e+06	(-36.7091715, 174.7282805)	-36.709
2230	CARLTON GARDENS	2.483500e+06	(-37.80194335, 144.9719701710172)	-37.801
2242	CARLYLE COURT	2.300000e+06	(32.972700950000004, -97.17339170977195)	32.972
2405	CHALCOT SQUARE	2.286679e+06	(51.5411955, -0.1558168)	51.541
2483	CHARLES LANE	2.414000e+06	(51.533837, -0.170298)	51.533

	Street	Avg_Price	city_coord	Latitu
2561	CHELSEA CRESCENT	2.495000e+06	(34.522443, -85.443891)	34.522
2605	CHESTER CLOSE NORTH	2.450000e+06	(51.5292054, -0.1450813)	51.529
2637	CHEYNE COURT	2.250000e+06	(51.599677, 0.5256231)	51.599
2640	CHEYNE ROW	2.410000e+06	(51.4837173, -0.169603)	51.483
2685	CHISWICK MALL	2.287500e+06	(51.4871849, -0.2480168)	51.487
2760	CITY ROAD	2.468340e+06	(51.5296972, -0.0977626)	51.529
2807	CLARENDON STREET	2.250000e+06	(51.36516, 1.1085692)	51.365
...	...	...	...	...
10924	RUSSELL GARDENS MEWS	2.300000e+06	(51.4998689, -0.2118904)	51.499
11171	SETTLES STREET	2.487500e+06	(51.5153237, -0.0643266)	51.515
11246	SHELDON AVENUE	2.349542e+06	(51.592613, 0.0731449)	51.592
11480	SOUTH END ROW	2.470000e+06	(51.4987463, -0.1890787)	51.498
11558	SOUTHWOOD LAWN ROAD	2.350000e+06	(51.5746267, -0.146238)	51.574
11561	SOVEREIGN PARK	2.500000e+06	(52.6880941, -2.724567251143845)	52.688
11778	ST MARGARETS CRESCENT	2.216500e+06	(17.0975135, -88.6161153)	17.097

	Street	Avg_Price	city_coord	Latitu
11814	ST OSWALDS PLACE	2.250000e+06	(51.4872071, -0.1185341)	51.487
11834	ST PETERS SQUARE	2.468730e+06	(41.9022353, 12.457357310298008)	41.902
11871	STAFFORD TERRACE	2.355000e+06	(51.5009379, -0.1960492)	51.500
12210	SUTHERLAND PLACE	2.456000e+06	(51.5166166, -0.1972762)	51.516
12272	SYDNEY STREET	2.240833e+06	(51.807082, 1.0239602)	51.807
12414	THAMES BANK	2.400000e+06	(52.0856689, -0.2432764)	52.085
12476	THE HEXAGON	2.335000e+06	(51.45388235, -0.9778342181052991)	51.453
12755	TREDEGAR SQUARE	2.436666e+06	(51.5270935, -0.03218423325966063)	51.527
12817	TRINITY STREET	2.317500e+06	(52.6239349, 1.2821379)	52.623
12967	UPPER HAMPSTEAD WALK	2.500000e+06	(51.558467, -0.1774529)	51.558
13229	WALPOLE GARDENS	2.303500e+06	(51.4397435, -0.3412634)	51.439
13231	WALPOLE STREET	2.242500e+06	(52.6261811, 1.2859311)	52.626
13305	WARWICK SQUARE	2.432273e+06	(33.7385632, -117.84650567746482)	33.738
13403	WELBECK WAY	2.267000e+06	(52.5580053, -0.262309)	52.558
13415	WELLESLEY TERRACE	2.410000e+06	(51.5292142, -0.0929327)	51.529

	Street	Avg_Price	city_coord	Latitu
13426	WELLINGTON STREET	2.293155e+06	(45.4234495, -75.6980579)	45.423
13558	WESTMORELAND PLACE	2.300000e+06	(40.7402242, -111.8463235)	40.740
13665	WHITFIELD STREET	2.451000e+06	(51.5229437, -0.1379311)	51.522
13710	WILFRED STREET	2.410538e+06	(51.4988397, -0.1392949)	51.498
13736	WILLOW BRIDGE ROAD	2.425000e+06	(51.5431088, -0.0955079)	51.543
13756	WILSON STREET	2.257500e+06	(30.5977973, -81.595757)	30.597
13784	WINCHENDON ROAD	2.350000e+06	(51.4329074, -0.3484547)	51.432
13821	WINGATE ROAD	2.206400e+06	(51.092557, 1.1794554)	51.092

162 rows × 5 columns

```
df1 = df_affordable.drop(columns=['city_coord'])
df1
```

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    vertical-align: top;
}

.dataframe thead th {
    text-align: right;
}
</style>

	Street	Avg_Price	Latitude
196	ALBION SQUARE	2.450000e+06	-41.273758
391	ANHALT ROAD	2.435000e+06	51.480316

	Street	Avg_Price	Latitude
406	ANSDELL TERRACE	2.250000e+06	51.499890
422	APPLEGARTH ROAD	2.400000e+06	53.748654
855	BARONSMEAD ROAD	2.375000e+06	51.477315
981	BEAUCLERC ROAD	2.480000e+06	51.499577
1102	BELVEDERE DRIVE	2.340000e+06	52.414209
1215	BICKENHALL STREET	2.208500e+06	51.521201
1253	BIRCHLANDS AVENUE	2.217000e+06	51.448394
1553	BRAMPTON GROVE	2.456875e+06	51.589961
1632	BRIARDALE GARDENS	2.397132e+06	51.560175
1797	BROOKWAY	2.400000e+06	45.432185
1914	BURBAGE ROAD	2.445000e+06	51.448260
1980	BURY WALK	2.492500e+06	52.145529
2068	CALLCOTT STREET	2.375000e+06	51.508350
2129	CAMPDEN HILL ROAD	2.379653e+06	51.501410
2136	CAMPION ROAD	2.461000e+06	52.681375
2158	CANNING PLACE	2.425000e+06	51.499570
2225	CARLISLE ROAD	2.200000e+06	-36.709171

	Street	Avg_Price	Latitude
2230	CARLTON GARDENS	2.483500e+06	-37.801943
2242	CARLYLE COURT	2.300000e+06	32.972701
2405	CHALCOT SQUARE	2.286679e+06	51.541196
2483	CHARLES LANE	2.414000e+06	51.533837
2561	CHELSEA CRESCENT	2.495000e+06	34.522443
2605	CHESTER CLOSE NORTH	2.450000e+06	51.529205
2637	CHEYNE COURT	2.250000e+06	51.599677
2640	CHEYNE ROW	2.410000e+06	51.483717
2685	CHISWICK MALL	2.287500e+06	51.487185
2760	CITY ROAD	2.468340e+06	51.529697
2807	CLARENDON STREET	2.250000e+06	51.365160
...	...	...	...
10924	RUSSELL GARDENS MEWS	2.300000e+06	51.499869
11171	SETTLES STREET	2.487500e+06	51.515324
11246	SHELDON AVENUE	2.349542e+06	51.592613
11480	SOUTH END ROW	2.470000e+06	51.498746
11558	SOUTHWOOD LAWN ROAD	2.350000e+06	51.574627

	Street	Avg_Price	Latitude
11561	SOVEREIGN PARK	2.500000e+06	52.688094
11778	ST MARGARETS CRESCENT	2.216500e+06	17.097514
11814	ST OSWALDS PLACE	2.250000e+06	51.487207
11834	ST PETERS SQUARE	2.468730e+06	41.902235
11871	STAFFORD TERRACE	2.355000e+06	51.500938
12210	SUTHERLAND PLACE	2.456000e+06	51.516617
12272	SYDNEY STREET	2.240833e+06	51.807082
12414	THAMES BANK	2.400000e+06	52.085669
12476	THE HEXAGON	2.335000e+06	51.453882
12755	TREDEGAR SQUARE	2.436666e+06	51.527093
12817	TRINITY STREET	2.317500e+06	52.623935
12967	UPPER HAMPSTEAD WALK	2.500000e+06	51.558467
13229	WALPOLE GARDENS	2.303500e+06	51.439743
13231	WALPOLE STREET	2.242500e+06	52.626181
13305	WARWICK SQUARE	2.432273e+06	33.738563
13403	WELBECK WAY	2.267000e+06	52.558005
13415	WELLESLEY TERRACE	2.410000e+06	51.529214

	Street	Avg_Price	Latitude
13426	WELLINGTON STREET	2.293155e+06	45.423449
13558	WESTMORELAND PLACE	2.300000e+06	40.740224
13665	WHITFIELD STREET	2.451000e+06	51.522944
13710	WILFRED STREET	2.410538e+06	51.498840
13736	WILLOW BRIDGE ROAD	2.425000e+06	51.543109
13756	WILSON STREET	2.257500e+06	30.597797
13784	WINCHENDON ROAD	2.350000e+06	51.432907
13821	WINGATE ROAD	2.206400e+06	51.092557

162 rows × 4 columns

```
address = 'London, UK'

geolocator = Nominatim()
location = geolocator.geocode(address)
latitude = location.latitude
longitude = location.longitude
print('The geograpical coordinate of London City are {}, {}.'.format(latitude,
longitude))

/opt/conda/envs/Python36/lib/python3.6/site-packages/ipykernel/__main__.py:3:
DeprecationWarning: Using Nominatim with the default "geopy/1.20.0" `user_agent` is
strongly discouraged, as it violates Nominatim's ToS
https://operations.osmfoundation.org/policies/nominatim/ and may possibly cause 403
and 429 HTTP errors. Please specify a custom `user_agent` with
`Nominatim(user_agent="my-application")` or by overriding the default `user_agent`:
`geopy.geocoders.options.default_user_agent = "my-application"`. In geopy 2.0 this
will become an exception.
  app.launch_new_instance()


The geograpical coordinate of London City are 51.5073219, -0.1276474.
# create map of London using latitude and longitude values
map_london = folium.Map(location=[latitude, longitude], zoom_start=11)

# add markers to map
```

```python
for lat, lng, price, street in zip(df1['Latitude'], df1['Longitude'],
df1['Avg_Price'], df1['Street']):
    label = '{}, {}'.format(street, price)
    label = folium.Popup(label, parse_html=True)
    folium.CircleMarker(
        [lat, lng],
        radius=5,
        popup=label,
        color='blue',
        fill=True,
        fill_color='#3186cc',
        fill_opacity=0.7,
        parse_html=False).add_to(map_london)

map_london
```

<iframe src="data:text/html;charset=utf-8;base64,PCFET0NUWVBFIGh0bWw+CjxoZWFkPiAgICAKICAgIDxtZXRhIGh0dHAtZXF1aXY9ImNvbnRlbnQtdHlwZSIgY29udGVudD0idGV4dC9odG1sOyBjaGFyc2V0PVVURi04IiAvPgogICAgPHNjcmlwdD5MX1BSRUZFUl9DQU5WQVMgPSBmYWxzZTsgTF9OT19UT1VDSCA9IGZhbHNlOyBMX0RJU0FCTEVfM0QgPSBmYWxzZTs8L3NjcmlwdD4KICAgIDxzY3JpcHQgc3JjPSJodHRwczovL2Nkbi5qc2RlbGl2ci5uZXQvbnBtL2xlYWZsZXRAMS4yLjAvZGlzdC9sZWFmbGV0LmpzIj48L3NjcmlwdD4KICAgIDxzY3JpcHQgc3JjPSJodHRwczovL2FqYXguZ29vZ2xlYXBpcy5jb20vYWpheC9saWJzL2pxdWVyeS8xLjExLjEvanF1ZXJ5Lm1pbi5qcyI+PC9zY3JpcHQ+CiAgICA8c2NyaXB0IHNyYz0iaHR0cHM6Ly9tYXhjZG4uYm9vdHN0cmFwY2RuLmNvbS9ib290c3RyYXAvMy4yLjAvanMvYm9vdHN0cmFwLm1pbi5qcyI+PC9zY3JpcHQ+CiAgICA8c2NyaXB0IHNyYz0iaHR0cHM6Ly9jZG5qcy5jbG91ZGZsYXJlLmNvbS9hamF4L2xpYnMvTGVhZmxldC5hd2Vzb21lLW1hcmtlcnMvMi4wLjIvbGVhZmxldC5hd2Vzb21lLW1hcmtlcnMuanMiPjwvc2NyaXB0PgogICAgPGxpbmsgcmVsPSJzdHlsZXNoZWV0IiBocmVmPSJodHRwczovL2Nkbi5qc2RlbGl2ci5uZXQvbnBtL2xlYWZsZXRAMS4yLjAvZGlzdC9sZWFmbGV0LmNzcyIvPgogICAgPGxpbmsgcmVsPSJzdHlsZXNoZWV0IiBocmVmPSJodHRwczovL21heGNkbi5ib290c3RyYXBjZG4uY29tL2Jvb3RzdHJhcC8zLjIuMC9jc3MvYm9vdHN0cmFwLm1pbi5jc3MiLz4KICAgIDxsaW5rIHJlbD0ic3R5bGVzaGVldCIgaHJlZj0iaHR0cHM6Ly9tYXhjZG4uYm9vdHN0cmFwY2RuLmNvbS9ib290c3RyYXAvMy4yLjAvY3NzL2Jvb3RzdHJhcC10aGVtZS5taW4uY3NzIi8+CiAgICA8bGluayByZWw9InN0eWxlc2hlZXQiIGhyZWY9Imh0dHBzOi8vbWF4Y2RuLmJvb3RzdHJhcGNkbi5jb20vZm9udC1hd2Vzb21lLzQuNi4zL2Nzcy9mb250LWF3ZXNvbWUubWluLmNzcyIvPgogICAgPGxpbmsgcmVsPSJzdHlsZXNoZWV0IiBocmVmPSJodHRwczovL2Nkbmpzy9MZWFmbGV0LmF3ZXNvbWUtbWFya2Vycy8yLjAuMi9sZWFmbGV0LmF3ZXNvbWUtbWFya2Vycy5jc3MiLz4KICAgIDxsaW5rIHJlbD0ic3R5bGVzaGVldCIgaHJlZj0iaHR0cHM6Ly9yYXdnaXQuY29tL3B5dGhvbi12aXN1YWxpemF0aW9uL2ZvbGl1bS9tYXN0ZXIvZm9saXVtL3RlbXBsYXRlcy9sZWFmbGV0LmF3ZXNvbWUucm90YXRlLmNzcyIvPgogICAgPHN0eWxlPmh0bWwsIGJvZHkge3dpZHRoOiAxMDAlO2hlaWdodDogMTAwJTttYXJnaW46IDA7cGFkZGluZzogMDt9PC9zdHlsZT4KICAgIDxzdHlsZT4jbWFwIHtwb3NpdGlvbjphYnNvbHV0ZTt0b3A6MDtib3R0b206MDtyaWdodDowO2xlZnQ6MDt9PC9zdHlsZT4KICAgIAogICAgPCAgICAgICAgPG1ldGEgbmFtZT0idmlld3BvcnQiIGNvbnRlbnQ9IndpZHRoPWRldmljZS13aWR0aCwKICAgICAgICAgICAgaW5pdGlhbC1zY2FsZT0xLjAsIG1heGltdW0tc2NhbGU9MS4wLCB1c2VyLXNjYWxhYmxlPW5vIiAvPgogICAgICAgIDxzdHlsZT4jbWFw

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```
#Define Foursquare Credentials and Version

CLIENT_ID = 'RVTNRWS3NKMHS3MB3TTASSNQTIVZQH4BL5H4Y0XIBSTNDKS1' # Foursquare ID
CLIENT_SECRET = 'GDIRZLF3DNHJRVO3VLG1XJQALXN0GZKNJ3PDJZ2JWG1NAJS3' # Foursquare
Secret
VERSION = '20191206' # Foursquare API version

print('Your credentails:')
print('CLIENT_ID: ' + CLIENT_ID)
print('CLIENT_SECRET:' + CLIENT_SECRET)

Your credentails:
CLIENT_ID: RVTNRWS3NKMHS3MB3TTASSNQTIVZQH4BL5H4Y0XIBSTNDKS1
CLIENT_SECRET:GDIRZLF3DNHJRVO3VLG1XJQALXN0GZKNJ3PDJZ2JWG1NAJS3
```

We can now proceed to the Modeling phase. We will analyze neighborhoods to recommend real estates where home buyers can make a real estate investment. We will then recommend profitable venues according to amenities and essential facilities surrounding such venues i.e. elementary schools, high schools, hospitals & grocery stores.

Modeling

After exploring the dataset and gaining insights into it, we are ready to use the clustering methodology to analyze real estates. We will use the k-means clustering technique as it is fast and efficient in terms of computational cost, is highly flexible to account for mutations in real estate market in London and is accurate.

```
def getNearbyVenues(names, latitudes, longitudes, radius=500, LIMIT=100):

    venues_list=[]
    for name, lat, lng in zip(names, latitudes, longitudes):
        print(name)

        # create the API request URL
        url =
'https://api.foursquare.com/v2/venues/explore?&client_id={}&client_secret={}&v={}&ll=
{},{}&radius={}&limit={}'.format(
            CLIENT_ID,
            CLIENT_SECRET,
            VERSION,
            lat,
            lng,
            radius,
            LIMIT)
```

```python
        # make the GET request
        results = requests.get(url).json()["response"]['groups'][0]['items']
    # return only relevant information for each nearby venue
        venues_list.append([(
            name,
            lat,
            lng,
            v['venue']['name'],
            v['venue']['location']['lat'],
            v['venue']['location']['lng'],
            v['venue']['categories'][0]['name']) for v in results])

    nearby_venues = pd.DataFrame([item for venue_list in venues_list for item in
venue_list])
    nearby_venues.columns = ['Street',
                'Street Latitude',
                'Street Longitude',
                'Venue',
                'Venue Latitude',
                'Venue Longitude',
                'Venue Category']

    return(nearby_venues)

# Run the above function on each location and create a new dataframe called
location_venues and display it.
location_venues = getNearbyVenues(names=df1['Street'],
                                  latitudes=df1['Latitude'],
                                  longitudes=df1['Longitude']
                                  )

ALBION SQUARE
ANHALT ROAD
ANSDELL TERRACE
APPLEGARTH ROAD
BARONSMEAD ROAD
BEAUCLERC ROAD
BELVEDERE DRIVE
BICKENHALL STREET
BIRCHLANDS AVENUE
BRAMPTON GROVE
BRIARDALE GARDENS
BROOKWAY
BURBAGE ROAD
BURY WALK
CALLCOTT STREET
CAMPDEN HILL ROAD
CAMPION ROAD
CANNING PLACE
CARLISLE ROAD
CARLTON GARDENS
CARLYLE COURT
CHALCOT SQUARE
CHARLES LANE
CHELSEA CRESCENT
```

CHESTER CLOSE NORTH
CHEYNE COURT
CHEYNE ROW
CHISWICK MALL
CITY ROAD
CLARENDON STREET
CLONCURRY STREET
COLBECK MEWS
COLLEGE CRESCENT
CORNWALL TERRACE MEWS
COURT LANE GARDENS
CRESCENT GROVE
DALEBURY ROAD
DEWHURST ROAD
DORIA ROAD
DOWNSHIRE HILL
DUCHESS WALK
ECCLESTON SQUARE MEWS
EGBERT STREET
EGERTON PLACE
ELM PARK ROAD
FLORAL STREET
FRANK DIXON WAY
FULTON MEWS
GERARD ROAD
GERRARD ROAD
GIRDLERS ROAD
GLOUCESTER CRESCENT
GORDON PLACE
GRAFTON SQUARE
GRAHAM TERRACE
HARMAN DRIVE
HARRIS STREET
HAVANNAH STREET
HAZLEWELL ROAD
HEREFORD MEWS
HERONDALE AVENUE
HIGHGATE HIGH STREET
HIGHWOOD HILL
HILLGATE PLACE
HOLLYCROFT AVENUE
HOLLYWOOD MEWS
HONEYWELL ROAD
HORTENSIA ROAD
HOXTON SQUARE
HUNTER ROAD
JACKSONS LANE
JOHN STREET
KINNERTON STREET
KNARESBOROUGH PLACE
KNOX STREET
LADBROKE GROVE
LANCASTER MEWS
LANSDOWNE ROAD
LATIMER INDUSTRIAL ESTATE

LAXTON PLACE
LINCOLN AVENUE
LINGFIELD ROAD
LISSON STREET
LIVERPOOL GROVE
LONGWOOD DRIVE
LONSDALE SQUARE
MAZE HILL
MIDDLESEX PASSAGE
MONTPELIER AVENUE
MONTPELIER WALK
MULTON ROAD
MUNDEN STREET
NORFOLK CRESCENT
NORTH CIRCULAR ROAD
NOTTINGHAM STREET
OAKLEY STREET
OAKWOOD COURT
OBSERVATORY GARDENS
OLD COURT PLACE
ONSLOW MEWS WEST
PALACE PLACE
PANTON STREET
PARK CRESCENT
PARK LANE
PARKE ROAD
PARKFIELDS
PARTHENIA ROAD
PAVILION ROAD
PEMBRIDGE MEWS
PEMBRIDGE ROAD
PEMBROKE STUDIOS
PENCOMBE MEWS
PETERSHAM PLACE
PHILLIMORE GARDENS
PHYSIC PLACE
PITFIELD STREET
PRINCES GATE
PRIORY ROAD
PROTHERO GARDENS
PUTNEY HIGH STREET
QUARRENDON STREET
QUEENS GATE TERRACE
RADSTOCK STREET
RANELAGH AVENUE
REDCLIFFE ROAD
REEVES MEWS
RHEIDOL MEWS
RINGWOOD AVENUE
RODERICK ROAD
ROPEMAKERS FIELDS
ROYAL CRESCENT
ROYAL HILL
RUSSELL GARDENS MEWS
SETTLES STREET

```
SHELDON AVENUE
SOUTH END ROW
SOUTHWOOD LAWN ROAD
SOVEREIGN PARK
ST MARGARETS CRESCENT
ST OSWALDS PLACE
ST PETERS SQUARE
STAFFORD TERRACE
SUTHERLAND PLACE
SYDNEY STREET
THAMES BANK
THE HEXAGON
TREDEGAR SQUARE
TRINITY STREET
UPPER HAMPSTEAD WALK
WALPOLE GARDENS
WALPOLE STREET
WARWICK SQUARE
WELBECK WAY
WELLESLEY TERRACE
WELLINGTON STREET
WESTMORELAND PLACE
WHITFIELD STREET
WILFRED STREET
WILLOW BRIDGE ROAD
WILSON STREET
WINCHENDON ROAD
WINGATE ROAD
location_venues
```

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}

.dataframe thead th {
    text-align: right;
}
</style>
```

	Street	Street Latitude	Street Longitude	Venue	Venue Latitude	Venue Longitude
0	ALBION SQUARE	-41.273758	173.289393	The Free House	-41.273340	173.28736
1	ALBION SQUARE	-41.273758	173.289393	The Indian Cafe	-41.273308	173.28653

	Street	Street Latitude	Street Longitude	Venue	Venue Latitude	Venue Longitude
2	ALBION SQUARE	-41.273758	173.289393	Queen's Gardens	-41.273671	173.29138
3	ALBION SQUARE	-41.273758	173.289393	Deville Cafe	-41.271941	173.28553
4	ALBION SQUARE	-41.273758	173.289393	Urban	-41.274355	173.28631
5	ALBION SQUARE	-41.273758	173.289393	Burger Culture	-41.274750	173.28403
6	ALBION SQUARE	-41.273758	173.289393	Fish Stop	-41.276010	173.28959
7	ALBION SQUARE	-41.273758	173.289393	The Vic Mac's Brew Bar	-41.274757	173.28391
8	ALBION SQUARE	-41.273758	173.289393	The Bridge Street Collective	-41.272520	173.28551
9	ALBION SQUARE	-41.273758	173.289393	Hopgood's	-41.274749	173.28383
10	ALBION SQUARE	-41.273758	173.289393	Mango	-41.274460	173.28534
11	ALBION SQUARE	-41.273758	173.289393	cod and lobster	-41.275203	173.28374
12	ALBION SQUARE	-41.273758	173.289393	Fresh Choice	-41.272194	173.28721

	Street	Street Latitude	Street Longitude	Venue	Venue Latitude	Venue Longitude
13	ALBION SQUARE	-41.273758	173.289393	Sprig & Fern	-41.274508	173.28652
14	ALBION SQUARE	-41.273758	173.289393	Lambretta's Cafe & Bar	-41.274372	173.28446
15	ALBION SQUARE	-41.273758	173.289393	The Kitchen	-41.272360	173.28550
16	ALBION SQUARE	-41.273758	173.289393	Morrison Street Cafe	-41.274505	173.28546
17	ALBION SQUARE	-41.273758	173.289393	Columbus Coffee	-41.274759	173.28539
18	ALBION SQUARE	-41.273758	173.289393	Suter Art Gallery	-41.273665	173.29137
19	ALBION SQUARE	-41.273758	173.289393	La Gourmandise	-41.274262	173.28621
20	ALBION SQUARE	-41.273758	173.289393	Ford's Restaurant & Bar	-41.274637	173.28385
21	ALBION SQUARE	-41.273758	173.289393	7010	-41.270045	173.28695
22	ALBION SQUARE	-41.273758	173.289393	Robert Harris Coffee	-41.272941	173.28387
23	ALBION SQUARE	-41.273758	173.289393	The Nelson Provincial Museum	-41.274486	173.28391

	Street	Street Latitude	Street Longitude	Venue	Venue Latitude	Venue Longitude
24	ALBION SQUARE	-41.273758	173.289393	623 In the City	-41.274049	173.28502
25	ALBION SQUARE	-41.273758	173.289393	The Prince Albert	-41.276275	173.29093
26	ALBION SQUARE	-41.273758	173.289393	Starbucks	-41.273502	173.28391
27	ANHALT ROAD	51.480316	-0.166801	Bayley & Sage	51.479074	-0.167052
28	ANHALT ROAD	51.480316	-0.166801	Nutbourne	51.479305	-0.168169
29	ANHALT ROAD	51.480316	-0.166801	The Prince Albert	51.479602	-0.165586
...	...	...	...	...	...	...
5916	WILLOW BRIDGE ROAD	51.543109	-0.095508	Compton Arms	51.543680	-0.102013
5917	WILLOW BRIDGE ROAD	51.543109	-0.095508	Canonbury Square	51.543994	-0.099789
5918	WILLOW BRIDGE ROAD	51.543109	-0.095508	Palmera Oasis	51.543634	-0.090384
5919	WILLOW BRIDGE ROAD	51.543109	-0.095508	Fig Tree	51.546947	-0.098576
5920	WILLOW BRIDGE ROAD	51.543109	-0.095508	Yida Sushi	51.546676	-0.099242

	Street	Street Latitude	Street Longitude	Venue	Venue Latitude	Venue Longitude
5921	WILLOW BRIDGE ROAD	51.543109	-0.095508	St. Paul	51.546313	-0.100447
5922	WILLOW BRIDGE ROAD	51.543109	-0.095508	Coconut Grove	51.546963	-0.098631
5923	WILLOW BRIDGE ROAD	51.543109	-0.095508	New London	51.546892	-0.098447
5924	WILLOW BRIDGE ROAD	51.543109	-0.095508	The Lord Clyde	51.543792	-0.090137
5925	WILLOW BRIDGE ROAD	51.543109	-0.095508	Tootoomoo	51.546540	-0.099482
5926	WILLOW BRIDGE ROAD	51.543109	-0.095508	Nightingale Park	51.545019	-0.090777
5927	WILSON STREET	30.597797	-81.595757	Subway	30.600741	-81.599182
5928	WINCHENDON ROAD	51.432907	-0.348455	Imperial China Restaurant	51.432460	-0.347984
5929	WINCHENDON ROAD	51.432907	-0.348455	Squires Garden Centre	51.435512	-0.351533
5930	WINCHENDON ROAD	51.432907	-0.348455	The Old Goat	51.436101	-0.350581
5931	WINCHENDON ROAD	51.432907	-0.348455	Brouge at The Old Goat	51.436088	-0.350445
5932	WINCHENDON ROAD	51.432907	-0.348455	Domino's Pizza	51.432442	-0.347993

	Street	Street Latitude	Street Longitude	Venue	Venue Latitude	Venue Longitude
5933	WINCHENDON ROAD	51.432907	-0.348455	Domino's Pizza	51.431722	-0.345421
5934	WINCHENDON ROAD	51.432907	-0.348455	Platform 1	51.433813	-0.349559
5935	WINCHENDON ROAD	51.432907	-0.348455	Bengal Brasserie	51.432368	-0.347982
5936	WINCHENDON ROAD	51.432907	-0.348455	Twickenham Depot	51.432384	-0.348018
5937	WINCHENDON ROAD	51.432907	-0.348455	Cavan Bakery	51.432426	-0.348010
5938	WINCHENDON ROAD	51.432907	-0.348455	Caffe Toscana	51.432430	-0.348008
5939	WINCHENDON ROAD	51.432907	-0.348455	Regency Fish Bar	51.431236	-0.345627
5940	WINCHENDON ROAD	51.432907	-0.348455	Fulwell Golf Club	51.433539	-0.352425
5941	WINCHENDON ROAD	51.432907	-0.348455	The Red Lion	51.430897	-0.345217
5942	WINGATE ROAD	51.092557	1.179455	Currys PC World	51.093848	1.179104
5943	WINGATE ROAD	51.092557	1.179455	The Hungry Horse	51.089400	1.180624
5944	WINGATE ROAD	51.092557	1.179455	Nisa Local	51.095157	1.184555

	Street	Street Latitude	Street Longitude	Venue	Venue Latitude	Venue Longitud
5945	WINGATE ROAD	51.092557	1.179455	Booker	51.092661	1.172383

5946 rows × 7 columns

```
location_venues.groupby('Street').count()
```

```
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}

.dataframe thead th {
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}
</style>
```

	Street Latitude	Street Longitude	Venue	Venue Latitude	Venue Longitude
Street					
ALBION SQUARE	27	27	27	27	27
ANHALT ROAD	16	16	16	16	16
ANSDELL TERRACE	50	50	50	50	50
APPLEGARTH ROAD	4	4	4	4	4
BARONSMEAD ROAD	14	14	14	14	14
BEAUCLERC ROAD	29	29	29	29	29
BELVEDERE DRIVE	5	5	5	5	5
BICKENHALL STREET	91	91	91	91	91

	Street Latitude	Street Longitude	Venue	Venue Latitude	Venue Longitude
Street					
BIRCHLANDS AVENUE	10	10	10	10	10
BRAMPTON GROVE	1	1	1	1	1
BRIARDALE GARDENS	6	6	6	6	6
BROOKWAY	2	2	2	2	2
BURBAGE ROAD	12	12	12	12	12
BURY WALK	14	14	14	14	14
CALLCOTT STREET	48	48	48	48	48
CAMPDEN HILL ROAD	63	63	63	63	63
CAMPION ROAD	3	3	3	3	3
CANNING PLACE	33	33	33	33	33
CARLISLE ROAD	9	9	9	9	9
CARLTON GARDENS	61	61	61	61	61
CARLYLE COURT	1	1	1	1	1
CHALCOT SQUARE	50	50	50	50	50
CHARLES LANE	33	33	33	33	33

	Street Latitude	Street Longitude	Venue	Venue Latitude	Venue Longitude
Street					
CHESTER CLOSE NORTH	21	21	21	21	21
CHEYNE COURT	2	2	2	2	2
CHEYNE ROW	58	58	58	58	58
CHISWICK MALL	6	6	6	6	6
CITY ROAD	32	32	32	32	32
CLARENDON STREET	5	5	5	5	5
CLONCURRY STREET	30	30	30	30	30
...	...	...	...	...	...
ROPEMAKERS FIELDS	25	25	25	25	25
ROYAL CRESCENT	24	24	24	24	24
RUSSELL GARDENS MEWS	25	25	25	25	25
SETTLES STREET	70	70	70	70	70
SOUTH END ROW	54	54	54	54	54
SOUTHWOOD LAWN ROAD	34	34	34	34	34

	Street Latitude	Street Longitude	Venue	Venue Latitude	Venue Longitude
Street					
SOVEREIGN PARK	2	2	2	2	2
ST OSWALDS PLACE	40	40	40	40	40
ST PETERS SQUARE	86	86	86	86	86
STAFFORD TERRACE	63	63	63	63	63
SUTHERLAND PLACE	62	62	62	62	62
SYDNEY STREET	4	4	4	4	4
THAMES BANK	4	4	4	4	4
THE HEXAGON	43	43	43	43	43
TREDEGAR SQUARE	31	31	31	31	31
TRINITY STREET	12	12	12	12	12
UPPER HAMPSTEAD WALK	63	63	63	63	63
WALPOLE GARDENS	9	9	9	9	9
WALPOLE STREET	18	18	18	18	18
WARWICK SQUARE	4	4	4	4	4
WELBECK WAY	5	5	5	5	5

	Street Latitude	Street Longitude	Venue	Venue Latitude	Venue Longitude
Street					
WELLESLEY TERRACE	51	51	51	51	51
WELLINGTON STREET	85	85	85	85	85
WESTMORELAND PLACE	18	18	18	18	18
WHITFIELD STREET	100	100	100	100	100
WILFRED STREET	80	80	80	80	80
WILLOW BRIDGE ROAD	22	22	22	22	22
WILSON STREET	1	1	1	1	1
WINCHENDON ROAD	14	14	14	14	14
WINGATE ROAD	4	4	4	4	4

155 rows × 6 columns

```
# get the List of Unique Categories
print('There are {} uniques categories.'.format(len(location_venues['Venue
Category'].unique()))))
location_venues.shape

There are 342 uniques categories.




(5946, 7)
# one hot encoding
venues_onehot = pd.get_dummies(location_venues[['Venue Category']], prefix="",
prefix_sep="")
```

```
# add street column back to dataframe
venues_onehot['Street'] = location_venues['Street']

# move street column to the first column
fixed_columns = [venues_onehot.columns[-1]] + list(venues_onehot.columns[:-1])

#fixed_columns
venues_onehot = venues_onehot[fixed_columns]

venues_onehot.head()
```

<style scoped> .dataframe tbody tr th:only-of-type { vertical-align: middle; }
.dataframe tbody tr th {
    vertical-align: top;
}

.dataframe thead th {
    text-align: right;
}
</style>

	Street	ATM	Accessories Store	Adult Boutique	Afghan Restaurant	African Restaurant	American Restaurant	Am S
0	ALBION SQUARE	0	0	0	0	0	0	0
1	ALBION SQUARE	0	0	0	0	0	0	0
2	ALBION SQUARE	0	0	0	0	0	0	0
3	ALBION SQUARE	0	0	0	0	0	0	0
4	ALBION SQUARE	0	0	0	0	0	0	0

5 rows × 343 columns

```
london_grouped = venues_onehot.groupby('Street').mean().reset_index()
london_grouped
```

<style scoped> .dataframe tbody tr th:only-of-type { vertical-align: middle; }
.dataframe tbody tr th {
    vertical-align: top;
}

```
.dataframe thead th {
    text-align: right;
}
```
</style>

	Street	ATM	Accessories Store	Adult Boutique	Afghan Restaurant	African Restaurant	Ame Resta
0	ALBION SQUARE	0.0	0.000000	0.0	0.0	0.000000	0.000
1	ANHALT ROAD	0.0	0.000000	0.0	0.0	0.000000	0.000
2	ANSDELL TERRACE	0.0	0.000000	0.0	0.0	0.000000	0.000
3	APPLEGARTH ROAD	0.0	0.000000	0.0	0.0	0.000000	0.000
4	BARONSMEAD ROAD	0.0	0.000000	0.0	0.0	0.000000	0.000
5	BEAUCLERC ROAD	0.0	0.000000	0.0	0.0	0.000000	0.000
6	BELVEDERE DRIVE	0.0	0.000000	0.0	0.0	0.000000	0.000
7	BICKENHALL STREET	0.0	0.000000	0.0	0.0	0.000000	0.000
8	BIRCHLANDS AVENUE	0.0	0.000000	0.0	0.0	0.000000	0.000
9	BRAMPTON GROVE	0.0	0.000000	0.0	0.0	0.000000	0.000
10	BRIARDALE GARDENS	0.0	0.000000	0.0	0.0	0.000000	0.000

	Street	ATM	Accessories Store	Adult Boutique	Afghan Restaurant	African Restaurant	Ame Resta
11	BROOKWAY	0.0	0.000000	0.0	0.0	0.000000	0.000
12	BURBAGE ROAD	0.0	0.000000	0.0	0.0	0.000000	0.000
13	BURY WALK	0.0	0.000000	0.0	0.0	0.000000	0.071
14	CALLCOTT STREET	0.0	0.000000	0.0	0.0	0.000000	0.000
15	CAMPDEN HILL ROAD	0.0	0.000000	0.0	0.0	0.000000	0.000
16	CAMPION ROAD	0.0	0.000000	0.0	0.0	0.000000	0.000
17	CANNING PLACE	0.0	0.000000	0.0	0.0	0.000000	0.000
18	CARLISLE ROAD	0.0	0.000000	0.0	0.0	0.000000	0.000
19	CARLTON GARDENS	0.0	0.000000	0.0	0.0	0.000000	0.000
20	CARLYLE COURT	0.0	0.000000	0.0	0.0	0.000000	0.000
21	CHALCOT SQUARE	0.0	0.000000	0.0	0.0	0.000000	0.000
22	CHARLES LANE	0.0	0.000000	0.0	0.0	0.000000	0.000
23	CHESTER CLOSE NORTH	0.0	0.000000	0.0	0.0	0.000000	0.000
24	CHEYNE COURT	0.0	0.000000	0.0	0.0	0.000000	0.000

	Street	ATM	Accessories Store	Adult Boutique	Afghan Restaurant	African Restaurant	Ame Resta
25	CHEYNE ROW	0.0	0.017241	0.0	0.0	0.000000	0.017
26	CHISWICK MALL	0.0	0.000000	0.0	0.0	0.000000	0.000
27	CITY ROAD	0.0	0.000000	0.0	0.0	0.000000	0.000
28	CLARENDON STREET	0.0	0.000000	0.0	0.0	0.000000	0.000
29	CLONCURRY STREET	0.0	0.000000	0.0	0.0	0.000000	0.000
...	...	...	...	...	...	...	...
125	ROPEMAKERS FIELDS	0.0	0.000000	0.0	0.0	0.000000	0.000
126	ROYAL CRESCENT	0.0	0.000000	0.0	0.0	0.000000	0.000
127	RUSSELL GARDENS MEWS	0.0	0.000000	0.0	0.0	0.000000	0.000
128	SETTLES STREET	0.0	0.000000	0.0	0.0	0.014286	0.000
129	SOUTH END ROW	0.0	0.000000	0.0	0.0	0.000000	0.000
130	SOUTHWOOD LAWN ROAD	0.0	0.000000	0.0	0.0	0.000000	0.000
131	SOVEREIGN PARK	0.0	0.000000	0.0	0.0	0.000000	0.000

	Street	ATM	Accessories Store	Adult Boutique	Afghan Restaurant	African Restaurant	American Resta...
132	ST OSWALDS PLACE	0.0	0.000000	0.0	0.0	0.000000	0.000...
133	ST PETERS SQUARE	0.0	0.000000	0.0	0.0	0.000000	0.000...
134	STAFFORD TERRACE	0.0	0.000000	0.0	0.0	0.000000	0.000...
135	SUTHERLAND PLACE	0.0	0.000000	0.0	0.0	0.000000	0.000...
136	SYDNEY STREET	0.0	0.000000	0.0	0.0	0.000000	0.000...
137	THAMES BANK	0.0	0.000000	0.0	0.0	0.000000	0.000...
138	THE HEXAGON	0.0	0.000000	0.0	0.0	0.000000	0.000...
139	TREDEGAR SQUARE	0.0	0.000000	0.0	0.0	0.000000	0.000...
140	TRINITY STREET	0.0	0.000000	0.0	0.0	0.000000	0.000...
141	UPPER HAMPSTEAD WALK	0.0	0.000000	0.0	0.0	0.000000	0.015...
142	WALPOLE GARDENS	0.0	0.000000	0.0	0.0	0.000000	0.000...
143	WALPOLE STREET	0.0	0.000000	0.0	0.0	0.000000	0.000...

	Street	ATM	Accessories Store	Adult Boutique	Afghan Restaurant	African Restaurant	Ame Resta
144	WARWICK SQUARE	0.0	0.000000	0.0	0.0	0.000000	0.000
145	WELBECK WAY	0.0	0.000000	0.0	0.0	0.000000	0.000
146	WELLESLEY TERRACE	0.0	0.000000	0.0	0.0	0.000000	0.000
147	WELLINGTON STREET	0.0	0.000000	0.0	0.0	0.000000	0.011
148	WESTMORELAND PLACE	0.0	0.000000	0.0	0.0	0.000000	0.055
149	WHITFIELD STREET	0.0	0.000000	0.0	0.0	0.010000	0.010
150	WILFRED STREET	0.0	0.000000	0.0	0.0	0.000000	0.000
151	WILLOW BRIDGE ROAD	0.0	0.000000	0.0	0.0	0.000000	0.000
152	WILSON STREET	0.0	0.000000	0.0	0.0	0.000000	0.000
153	WINCHENDON ROAD	0.0	0.000000	0.0	0.0	0.000000	0.000
154	WINGATE ROAD	0.0	0.000000	0.0	0.0	0.000000	0.000

155 rows × 343 columns

```
london_grouped.shape
```
```
(155, 343)
# What are the top 5 venues/facilities nearby profitable real estate investments?#

num_top_venues = 5
```

```python
for hood in london_grouped['Street']:
    print("----"+hood+"----")
    temp = london_grouped[london_grouped['Street'] == hood].T.reset_index()
    temp.columns = ['venue','freq']
    temp = temp.iloc[1:]
    temp['freq'] = temp['freq'].astype(float)
    temp = temp.round({'freq': 2})
    print(temp.sort_values('freq',
ascending=False).reset_index(drop=True).head(num_top_venues))
    print('\n')
```

```
----ALBION SQUARE----
               venue  freq
0               Café  0.22
1         Restaurant  0.07
2        Coffee Shop  0.07
3                Pub  0.07
4  Indian Restaurant  0.07


----ANHALT ROAD----
                 venue  freq
0                  Pub  0.25
1        Grocery Store  0.12
2  Gym / Fitness Center  0.06
3                Plaza  0.06
4                Diner  0.06


----ANSDELL TERRACE----
               venue  freq
0              Hotel  0.06
1  Italian Restaurant  0.06
2         Restaurant  0.06
3                Pub  0.06
4     Clothing Store  0.06


----APPLEGARTH ROAD----
               venue  freq
0                Pub  0.50
1             Casino  0.25
2          Nightclub  0.25
3                ATM  0.00
4  Outdoor Sculpture  0.00


----BARONSMEAD ROAD----
               venue  freq
0     Farmers Market  0.07
1     Breakfast Spot  0.07
2  Food & Drink Shop  0.07
3           Bookstore  0.07
4        Coffee Shop  0.07
```

```
----BEAUCLERC ROAD----
              venue  freq
0               Pub  0.14
1       Coffee Shop  0.14
2             Hotel  0.10
3   Thai Restaurant  0.07
4     Grocery Store  0.07


----BELVEDERE DRIVE----
                 venue  freq
0                  Pub   0.2
1   Seafood Restaurant   0.2
2    Fish & Chips Shop   0.2
3      Vacation Rental   0.2
4           Campground   0.2


----BICKENHALL STREET----
                venue  freq
0               Hotel  0.05
1         Coffee Shop  0.05
2       Grocery Store  0.03
3   Indian Restaurant  0.03
4           Gastropub  0.03


----BIRCHLANDS AVENUE----
                venue  freq
0                 Pub   0.2
1   French Restaurant   0.1
2             Brewery   0.1
3      Breakfast Spot   0.1
4              Bakery   0.1


----BRAMPTON GROVE----
                           venue  freq
0                   Food Service   1.0
1                            ATM   0.0
2            Outdoor Event Space   0.0
3                           Park   0.0
4   Paper / Office Supplies Store   0.0


----BRIARDALE GARDENS----
                 venue  freq
0   Seafood Restaurant  0.17
1        Grocery Store  0.17
2    Indian Restaurant  0.17
3    Convenience Store  0.17
4   Other Great Outdoors  0.17
```

```
----BROOKWAY----
             venue  freq
0  Asian Restaurant   0.5
1       Art Gallery   0.5
2               ATM   0.0
3       Pastry Shop   0.0
4              Park   0.0


----BURBAGE ROAD----
                 venue  freq
0              Stadium  0.08
1    Athletics & Sports  0.08
2    Italian Restaurant  0.08
3        Cricket Ground  0.08
4           Pizza Place  0.08


----BURY WALK----
                 venue  freq
0           Supermarket  0.21
1    English Restaurant  0.14
2                  Café  0.07
3                  Park  0.07
4                   Gym  0.07


----CALLCOTT STREET----
                venue  freq
0                 Pub  0.15
1                Park  0.06
2         Pizza Place  0.04
3    Indian Restaurant  0.04
4               Hotel  0.04


----CAMPDEN HILL ROAD----
                 venue  freq
0                  Café  0.06
1        Clothing Store  0.05
2                 Hotel  0.05
3                Bakery  0.05
4    Italian Restaurant  0.05


----CAMPION ROAD----
                   venue  freq
0                Windmill  0.33
1                     Spa  0.33
2            Soccer Field  0.33
3                     ATM  0.00
4    Other Great Outdoors  0.00


----CANNING PLACE----
```

```
              venue  freq
0             Hotel  0.21
1  Chinese Restaurant  0.06
2   French Restaurant  0.06
3  Italian Restaurant  0.06
4      Clothing Store  0.06


----CARLISLE ROAD----
              venue  freq
0            Bakery  0.11
1  Indian Restaurant  0.11
2  Fish & Chips Shop  0.11
3  Convenience Store  0.11
4          Pharmacy  0.11


----CARLTON GARDENS----
              venue  freq
0  Italian Restaurant  0.23
1      Dessert Shop  0.05
2              Café  0.05
3       Coffee Shop  0.03
4    Ice Cream Shop  0.03


----CARLYLE COURT----
                         venue  freq
0                         Farm   1.0
1                          ATM   0.0
2            Outdoor Sculpture   0.0
3                         Park   0.0
4  Paper / Office Supplies Store   0.0


----CHALCOT SQUARE----
              venue  freq
0              Café  0.08
1               Pub  0.06
2               Bar  0.06
3  Italian Restaurant  0.06
4       Coffee Shop  0.06


----CHARLES LANE----
              venue  freq
0     Cricket Ground  0.12
1  French Restaurant  0.06
2       Coffee Shop  0.06
3               Pub  0.06
4      Deli / Bodega  0.06


----CHESTER CLOSE NORTH----
         venue  freq
```

```
0       Garden  0.14
1         Park  0.10
2  Cocktail Bar  0.10
3        Hotel  0.05
4       Lounge  0.05


----CHEYNE COURT----
                           venue  freq
0  Construction & Landscaping   0.5
1                   Gastropub   0.5
2                         ATM   0.0
3         Outdoor Event Space   0.0
4                        Park   0.0


----CHEYNE ROW----
                  venue  freq
0                  Café  0.09
1    Italian Restaurant  0.05
2                   Pub  0.05
3                 Plaza  0.03
4  Gym / Fitness Center  0.03


----CHISWICK MALL----
         venue  freq
0          Pub  0.33
1      Brewery  0.17
2    Gift Shop  0.17
3    Reservoir  0.17
4   Art Museum  0.17


----CITY ROAD----
          venue  freq
0           Pub  0.25
1    Coffee Shop  0.09
2    Art Gallery  0.06
3          Park  0.06
4  Dance Studio  0.06


----CLARENDON STREET----
                  venue  freq
0     Indian Restaurant   0.4
1  Fast Food Restaurant   0.2
2         Grocery Store   0.2
3             Pet Store   0.2
4                   ATM   0.0


----CLONCURRY STREET----
          venue  freq
0           Café  0.17
```

```
1              Park  0.10
2       Coffee Shop  0.07
3     Grocery Store  0.07
4      Cocktail Bar  0.03



----COLBECK MEWS----
                  venue  freq
0                 Hotel  0.24
1                   Pub  0.07
2                Garden  0.05
3     Italian Restaurant  0.04
4                  Café  0.04



----COLLEGE CRESCENT----
                  venue  freq
0                   Bar   0.2
1    College Hockey Rink   0.2
2          Liquor Store   0.2
3                 Diner   0.2
4               Butcher   0.2



----CORNWALL TERRACE MEWS----
                venue  freq
0                Café  0.07
1         Coffee Shop  0.07
2              Garden  0.07
3     Thai Restaurant  0.04
4              Museum  0.04



----COURT LANE GARDENS----
                     venue  freq
0                      Pub  0.13
1             Grocery Store  0.13
2                     Café  0.13
3     Furniture / Home Store  0.07
4                     Lake  0.07



----CRESCENT GROVE----
                             venue  freq
0                            Hotel   1.0
1                              ATM   0.0
2               Outdoor Event Space   0.0
3                             Park   0.0
4     Paper / Office Supplies Store   0.0



----DALEBURY ROAD----
                venue  freq
0     Asian Restaurant  0.33
1             Bus Stop  0.17
```

```
2   Indian Restaurant   0.17
3       Grocery Store   0.17
4                Café   0.17


----DEWHURST ROAD----
            venue  freq
0           Hotel  0.16
1             Pub  0.11
2     Pizza Place  0.05
3       Gastropub  0.05
4            Café  0.05


----DORIA ROAD----
                 venue  freq
0    Italian Restaurant  0.09
1                  Café  0.08
2                Bakery  0.06
3                   Pub  0.06
4           Coffee Shop  0.06


----DOWNSHIRE HILL----
                 venue  freq
0                   Pub  0.13
1                  Café  0.13
2    Italian Restaurant  0.08
3              Bookstore  0.05
4        Thai Restaurant  0.05


----DUCHESS WALK----
                 venue  freq
0                   Pub  0.08
1           Coffee Shop  0.06
2                   Bar  0.06
3    Italian Restaurant  0.04
4          Cocktail Bar  0.03


----ECCLESTON SQUARE MEWS----
                 venue  freq
0                 Hotel  0.10
1                   Pub  0.08
2           Coffee Shop  0.06
3    Italian Restaurant  0.06
4                  Café  0.05


----EGBERT STREET----
                         venue  freq
0                          Pub   1.0
1                          ATM   0.0
2          Other Great Outdoors   0.0
```

```
3  Paper / Office Supplies Store   0.0
4                         Palace   0.0


----EGERTON PLACE----
                 venue  freq
0                 Café  0.12
1   Italian Restaurant  0.11
2             Boutique  0.06
3                Hotel  0.05
4          Coffee Shop  0.05


----ELM PARK ROAD----
           venue  freq
0    Supermarket  0.17
1            Pub  0.17
2         Lounge  0.17
3  Grocery Store  0.17
4    Pizza Place  0.17


----FLORAL STREET----
            venue  freq
0         Theater  0.09
1     Coffee Shop  0.06
2          Bakery  0.05
3  Ice Cream Shop  0.05
4  Clothing Store  0.04


----FRANK DIXON WAY----
                  venue  freq
0                  Café  0.25
1                  Lake  0.12
2  Gym / Fitness Center  0.12
3          Tennis Court  0.12
4           Rugby Pitch  0.12


----FULTON MEWS----
                 venue  freq
0                Hotel  0.18
1                  Pub  0.08
2          Coffee Shop  0.07
3   Chinese Restaurant  0.06
4                 Café  0.04


----GERARD ROAD----
              venue  freq
0              Park  0.18
1       Sports Club  0.09
2       Pizza Place  0.09
3          Gym Pool  0.09
```

```
4  Gym / Fitness Center   0.09


----GERRARD ROAD----
              venue   freq
0               Pub   0.09
1       Coffee Shop   0.08
2      Burger Joint   0.04
3  Sushi Restaurant   0.03
4              Café   0.03


----GIRDLERS ROAD----
               venue   freq
0                Pub   0.12
1  Italian Restaurant  0.06
2          Gastropub   0.06
3     Sandwich Place   0.06
4        Pizza Place   0.06


----GORDON PLACE----
                          venue   freq
0              Seafood Restaurant  1.0
1                            ATM   0.0
2            Outdoor Event Space   0.0
3                           Park   0.0
4  Paper / Office Supplies Store   0.0


----GRAFTON SQUARE----
               venue   freq
0                Pub   0.10
1       Burger Joint   0.05
2               Café   0.05
3         Restaurant   0.05
4  Italian Restaurant  0.04


----GRAHAM TERRACE----
               venue   freq
0             Bakery   0.07
1  Italian Restaurant  0.06
2         Restaurant   0.05
3        Coffee Shop   0.05
4                Pub   0.03


----HARMAN DRIVE----
                 venue   freq
0  Gym / Fitness Center  0.50
1          Bus Station   0.25
2          Coffee Shop   0.25
3                  ATM   0.00
4  Outdoor Supply Store  0.00
```

```
----HARRIS STREET----
                          venue  freq
0              Indian Restaurant   0.8
1                          Café   0.2
2            Outdoor Event Space   0.0
3                          Park   0.0
4  Paper / Office Supplies Store   0.0


----HAVANNAH STREET----
                venue  freq
0   Indian Restaurant  0.11
1  Italian Restaurant  0.11
2               Hotel  0.08
3  Turkish Restaurant  0.05
4  Chinese Restaurant  0.05


----HAZLEWELL ROAD----
                 venue  freq
0   Japanese Restaurant  0.25
1  Gym / Fitness Center  0.12
2          Tennis Court  0.12
3         Grocery Store  0.12
4             Gastropub  0.12


----HEREFORD MEWS----
                 venue  freq
0                   Pub  0.09
1                  Café  0.06
2  Gym / Fitness Center  0.05
3                Garden  0.04
4            Pizza Place  0.04


----HERONDALE AVENUE----
                venue  freq
0    French Restaurant  0.50
1         Tennis Court  0.25
2        Grocery Store  0.25
3                  ATM  0.00
4  Outdoor Event Space  0.00


----HIGHGATE HIGH STREET----
               venue  freq
0                 Pub  0.30
1              Bakery  0.10
2                Café  0.10
3            Tea Room  0.05
4  Indian Restaurant  0.05
```

```
----HIGHWOOD HILL----
                 venue  freq
0    Athletics & Sports   1.0
1                   ATM   0.0
2  Performing Arts Venue   0.0
3           Pastry Shop   0.0
4                  Park   0.0


----HILLGATE PLACE----
               venue  freq
0                Pub  0.15
1               Park  0.07
2      Grocery Store  0.04
3        Pizza Place  0.04
4  Indian Restaurant  0.04


----HOLLYCROFT AVENUE----
                            venue  freq
0                            Café   1.0
1                             ATM   0.0
2                            Park   0.0
3  Paper / Office Supplies Store   0.0
4                          Palace   0.0


----HOLLYWOOD MEWS----
                 venue  freq
0                  Pub  0.07
1               Bakery  0.07
2  Gym / Fitness Center  0.07
3     French Restaurant  0.07
4    Italian Restaurant  0.07


----HONEYWELL ROAD----
                   venue  freq
0                    Pub  0.19
1                   Café  0.12
2  Health & Beauty Service  0.06
3            Pizza Place  0.06
4              Pet Store  0.06


----HORTENSIA ROAD----
               venue  freq
0  Italian Restaurant  0.10
1     Sandwich Place  0.06
2                Pub  0.06
3               Café  0.05
4      Grocery Store  0.05
```

```
----HOXTON SQUARE----
         venue  freq
0   Coffee Shop  0.07
1          Café  0.06
2           Bar  0.06
3   Cocktail Bar  0.05
4         Hotel  0.05


----HUNTER ROAD----
               venue  freq
0       Burger Joint   0.2
1         Skate Park   0.2
2   Fish & Chips Shop   0.2
3       Grocery Store   0.2
4               Café   0.2


----JACKSONS LANE----
               venue  freq
0                Pub  0.35
1               Café  0.12
2   Italian Restaurant  0.06
3       Historic Site  0.06
4   Seafood Restaurant  0.06


----JOHN STREET----
               venue  freq
0   Chinese Restaurant  0.09
1   Austrian Restaurant  0.09
2       Farmers Market  0.04
3       Ice Cream Shop  0.04
4             Butcher  0.04


----KINNERTON STREET----
               venue  freq
0              Hotel  0.11
1           Boutique  0.09
2               Café  0.06
3   Italian Restaurant  0.06
4           Hotel Bar  0.04


----KNARESBOROUGH PLACE----
               venue  freq
0              Hotel  0.29
1                Pub  0.07
2   Italian Restaurant  0.05
3         Coffee Shop  0.04
4             Garden  0.04


----KNOX STREET----
```

```
           venue  freq
0  Coffee Shop  0.08
1         Café  0.04
2    Gastropub  0.04
3          Pub  0.04
4        Hotel  0.04


----LADBROKE GROVE----
                  venue  freq
0    Italian Restaurant  0.07
1  Gym / Fitness Center  0.05
2                  Café  0.05
3        Breakfast Spot  0.04
4             Bookstore  0.04


----LANCASTER MEWS----
         venue  freq
0        Hotel  0.26
1          Pub  0.10
2         Café  0.08
3  Coffee Shop  0.06
4       Garden  0.05


----LANSDOWNE ROAD----
              venue  freq
0             Hotel  0.17
1              Café  0.13
2         Gastropub  0.07
3               Pub  0.07
4  Fish & Chips Shop  0.03


----LATIMER INDUSTRIAL ESTATE----
                  venue  freq
0  Gym / Fitness Center  0.33
1       Automotive Shop  0.33
2       Warehouse Store  0.33
3                   ATM  0.00
4   Outdoor Event Space  0.00


----LAXTON PLACE----
               venue  freq
0        Coffee Shop  0.11
1                Pub  0.08
2  Indian Restaurant  0.07
3              Plaza  0.04
4               Café  0.03


----LINCOLN AVENUE----
              venue  freq
```

```
0        Pizza Place  0.05
1  Sushi Restaurant  0.05
2    Ice Cream Shop  0.05
3      Dessert Shop  0.05
4         Juice Bar  0.03


----LINGFIELD ROAD----
                 venue  freq
0        Grocery Store   0.4
1                 Park   0.2
2                  Pub   0.2
3               Bakery   0.2
4  Outdoor Event Space   0.0


----LISSON STREET----
             venue  freq
0      Coffee Shop  0.06
1              Pub  0.06
2   Sandwich Place  0.06
3             Café  0.05
4       Bagel Shop  0.03


----LIVERPOOL GROVE----
                 venue  freq
0                 Café  0.14
1  Fast Food Restaurant  0.07
2         Dessert Shop  0.04
3       Sandwich Place  0.04
4           Bagel Shop  0.04


----LONGWOOD DRIVE----
            venue  freq
0     Bus Station  0.19
1        Bus Stop  0.12
2            Café  0.12
3   Grocery Store  0.06
4             Bar  0.06


----LONSDALE SQUARE----
                     venue  freq
0                      Pub  0.08
1        French Restaurant  0.06
2  Mediterranean Restaurant  0.06
3                   Bakery  0.05
4                 Gastropub  0.05


----MIDDLESEX PASSAGE----
                 venue  freq
0    Italian Restaurant  0.08
```

```
1  Gym / Fitness Center  0.05
2                 Plaza  0.05
3            Coffee Shop  0.05
4               Wine Bar  0.05


----MONTPELIER AVENUE----
              venue  freq
0               Pub   0.2
1     Deli / Bodega   0.2
2    Discount Store   0.2
3             Hotel   0.2
4       Supermarket   0.2


----MONTPELIER WALK----
                venue  freq
0                Café  0.11
1   Italian Restaurant  0.11
2               Hotel  0.08
3             Boutique  0.06
4          Coffee Shop  0.06


----MULTON ROAD----
                 venue  freq
0        Breakfast Spot  0.33
1                  Pub  0.33
2     Convenience Store  0.33
3                  ATM  0.00
4   Outdoor Event Space  0.00


----MUNDEN STREET----
                venue  freq
0               Hotel  0.11
1                Café  0.11
2                 Pub  0.09
3         Pizza Place  0.07
4   Indian Restaurant  0.07


----NORTH CIRCULAR ROAD----
                  venue  freq
0     Chinese Restaurant  0.25
1         Cosmetics Shop  0.25
2          Optical Shop  0.25
3   Fast Food Restaurant  0.25
4                   ATM  0.00


----NOTTINGHAM STREET----
               venue  freq
0      Sandwich Place  0.06
1    French Restaurant  0.04
```

```
2              Café  0.04
3       Coffee Shop  0.04
4  Indian Restaurant  0.03



----OAKLEY STREET----
               venue  freq
0                Pub  0.11
1               Café  0.11
2  Italian Restaurant  0.07
3          Nightclub  0.06
4             Garden  0.06



----OAKWOOD COURT----
         venue  freq
0  Golf Course  0.25
1   Smoke Shop  0.25
2  Pizza Place  0.25
3         Food  0.25
4          ATM  0.00



----OBSERVATORY GARDENS----
           venue  freq
0           Café  0.05
1            Pub  0.05
2      Juice Bar  0.04
3          Hotel  0.04
4  Clothing Store  0.04



----OLD COURT PLACE----
               venue  freq
0              Hotel  0.09
1                Pub  0.04
2  Italian Restaurant  0.04
3   French Restaurant  0.04
4               Café  0.04



----ONSLOW MEWS WEST----
               venue  freq
0              Hotel  0.11
1             Bakery  0.05
2  Italian Restaurant  0.05
3       Burger Joint  0.04
4        Coffee Shop  0.04



----PALACE PLACE----
                    venue  freq
0         Electronics Store   1.0
1                      ATM   0.0
2         Outdoor Sculpture   0.0
```

```
3                                 Park    0.0
4   Paper / Office Supplies Store   0.0



----PANTON STREET----
                venue   freq
0               Theater  0.09
1                 Hotel  0.05
2        Ice Cream Shop  0.04
3              Bookstore  0.03
4     Seafood Restaurant  0.03



----PARK CRESCENT----
                                venue   freq
0                                Food    0.5
1                        Camera Store    0.5
2                  Outdoor Event Space   0.0
3     Paper / Office Supplies Store    0.0
4                              Palace    0.0



----PARK LANE----
                  venue   freq
0      Mexican Restaurant  0.07
1   Fast Food Restaurant  0.07
2              Nightclub  0.05
3            Pizza Place  0.05
4          Clothing Store  0.05



----PARKE ROAD----
                                venue   freq
0                                 Pub   0.50
1                                Park   0.25
2                               River   0.25
3             Other Great Outdoors    0.00
4   Paper / Office Supplies Store    0.00



----PARKFIELDS----
               venue   freq
0      Historic Site  0.33
1        Supermarket  0.17
2              Diner  0.17
3              Hotel  0.17
4     Harbor / Marina  0.17



----PARTHENIA ROAD----
              venue   freq
0        Coffee Shop  0.14
1                Pub  0.11
2               Café  0.09
3       Grocery Store  0.09
```

```
4   French Restaurant   0.06


----PAVILION ROAD----
                                venue  freq
0                                Lake  0.33
1                       Grocery Store  0.33
2                                Café  0.33
3                                 ATM  0.00
4   Paper / Office Supplies Store  0.00


----PEMBRIDGE MEWS----
                  venue  freq
0                   Pub  0.06
1   Italian Restaurant  0.05
2           Restaurant  0.04
3        Clothing Store  0.03
4         Grocery Store  0.03


----PEMBRIDGE ROAD----
                venue  freq
0                 Pub  0.16
1                Park  0.06
2               Hotel  0.06
3         Pizza Place  0.04
4   Indian Restaurant  0.04


----PEMBROKE STUDIOS----
          venue  freq
0    Restaurant  0.14
1           Pub  0.10
2    Sports Bar  0.07
3   Supermarket  0.07
4      Nightclub  0.03


----PENCOMBE MEWS----
                  venue  freq
0   Italian Restaurant  0.09
1                  Pub  0.07
2        Clothing Store  0.04
3          Coffee Shop  0.04
4               Bakery  0.04


----PETERSHAM PLACE----
                     venue  freq
0                      Pub  0.50
1               Sports Bar  0.25
2   Health & Beauty Service  0.25
3                      ATM  0.00
4       Outdoor Event Space  0.00
```

```
----PHILLIMORE GARDENS----
               venue  freq
0                Café  0.17
1      Harbor / Marina  0.05
2      Ice Cream Shop  0.05
3                Hotel  0.05
4            Bookstore  0.04


----PHYSIC PLACE----
          venue  freq
0          Café  0.07
1           Pub  0.07
2        Bakery  0.05
3   Pizza Place  0.05
4   Coffee Shop  0.05


----PITFIELD STREET----
                    venue  freq
0            Coffee Shop  0.10
1                    Pub  0.07
2   Vietnamese Restaurant  0.06
3                    Café  0.05
4                    Bar  0.05


----PRINCES GATE----
                          venue  freq
0                     Gift Shop   1.0
1                           ATM   0.0
2   Paper / Office Supplies Store   0.0
3                        Palace   0.0
4           Pakistani Restaurant   0.0


----PRIORY ROAD----
                 venue  freq
0                  Pub  0.29
1            Restaurant  0.12
2           Pizza Place  0.04
3    Seafood Restaurant  0.04
4            Rock Club  0.02


----PROTHERO GARDENS----
                   venue  freq
0          Grocery Store  0.15
1            Coffee Shop  0.10
2    Japanese Restaurant  0.05
3              BBQ Joint  0.05
4   Gym / Fitness Center  0.05
```

```
----PUTNEY HIGH STREET----
              venue  freq
0      Coffee Shop  0.09
1             Café  0.05
2   Clothing Store  0.05
3   Sandwich Place  0.04
4              Bar  0.04


----QUARRENDON STREET----
                 venue  freq
0         Coffee Shop  0.12
1   Italian Restaurant  0.10
2                  Pub  0.10
3                 Café  0.07
4        Grocery Store  0.07


----QUEENS GATE TERRACE----
                  venue  freq
0   Fast Food Restaurant   0.2
1         Shopping Mall   0.1
2                  Food   0.1
3     Mexican Restaurant   0.1
4      Convenience Store   0.1


----RADSTOCK STREET----
                 venue  freq
0                  Pub  0.29
1        Grocery Store  0.14
2   Japanese Restaurant  0.07
3         Cocktail Bar  0.07
4     French Restaurant  0.07


----RANELAGH AVENUE----
                 venue  freq
0                  Pub  0.16
1   Italian Restaurant  0.12
2    Convenience Store  0.08
3                 Café  0.08
4               Garden  0.04


----REDCLIFFE ROAD----
                  venue  freq
0                   Pub  0.29
1    Chinese Restaurant  0.14
2   Gym / Fitness Center  0.14
3         Grocery Store  0.14
4        Sandwich Place  0.14
```

```
----REEVES MEWS----
                 venue  freq
0                Hotel  0.12
1    Italian Restaurant  0.05
2     French Restaurant  0.05
3                 Café  0.04
4            Restaurant  0.04


----RHEIDOL MEWS----
                 venue  freq
0                  Pub  0.13
1                 Park  0.07
2           Coffee Shop  0.07
3                 Café  0.03
4     French Restaurant  0.03


----RINGWOOD AVENUE----
                      venue  freq
0                       Pub  0.14
1          Indian Restaurant  0.14
2        Gym / Fitness Center  0.14
3                      Café  0.14
4   Mediterranean Restaurant  0.14


----RODERICK ROAD----
                  venue  freq
0        Asian Restaurant  0.14
1       Indian Restaurant  0.14
2              Restaurant  0.14
3    Pakistani Restaurant  0.14
4       Convenience Store  0.14


----ROPEMAKERS FIELDS----
                   venue  freq
0       Indian Restaurant  0.12
1    Gym / Fitness Center  0.12
2      Italian Restaurant  0.08
3             Pizza Place  0.08
4                Bus Stop  0.08


----ROYAL CRESCENT----
                 venue  freq
0                Hotel  0.12
1    Italian Restaurant  0.08
2                  Pub  0.08
3                 Café  0.08
4        History Museum  0.08


----RUSSELL GARDENS MEWS----
```

```
              venue   freq
0               Hotel  0.16
1           Gastropub  0.08
2   Italian Restaurant  0.08
3   Persian Restaurant  0.08
4                 Pub  0.08


----SETTLES STREET----
              venue   freq
0               Hotel  0.14
1         Coffee Shop  0.09
2                Café  0.07
3                 Pub  0.06
4   Indian Restaurant  0.06


----SOUTH END ROW----
              venue   freq
0               Hotel  0.09
1   Italian Restaurant  0.06
2          Restaurant  0.06
3      Clothing Store  0.06
4          Hookah Bar  0.04


----SOUTHWOOD LAWN ROAD----
              venue   freq
0                 Pub  0.29
1                Café  0.12
2            Bus Stop  0.06
3              Bakery  0.06
4   Indian Restaurant  0.06


----SOVEREIGN PARK----
              venue   freq
0              Bakery   0.5
1   Convenience Store   0.5
2                 ATM   0.0
3   Outdoor Sculpture   0.0
4         Pastry Shop   0.0


----ST OSWALDS PLACE----
              venue   freq
0                Café  0.12
1                 Pub  0.10
2      Cricket Ground  0.08
3             Gay Bar  0.08
4   Italian Restaurant  0.05


----ST PETERS SQUARE----
              venue   freq
```

```
0   Italian Restaurant  0.22
1      Ice Cream Shop  0.09
2               Hotel  0.09
3                Café  0.08
4              Museum  0.05


----STAFFORD TERRACE----
              venue  freq
0              Café  0.10
1            Bakery  0.05
2    Clothing Store  0.05
3        Restaurant  0.03
4     Grocery Store  0.03


----SUTHERLAND PLACE----
                               venue  freq
0                                Pub  0.10
1                               Café  0.06
2                 Italian Restaurant  0.05
3  Vegetarian / Vegan Restaurant     0.03
4                 Persian Restaurant  0.03


----SYDNEY STREET----
              venue  freq
0             Beach  0.25
1     Grocery Store  0.25
2              Café  0.25
3    Harbor / Marina  0.25
4               ATM  0.00


----THAMES BANK----
                 venue  freq
0   Gym / Fitness Center  0.25
1           Burger Joint  0.25
2          Grocery Store  0.25
3            Pizza Place  0.25
4                   ATM  0.00


----THE HEXAGON----
               venue  freq
0     Clothing Store  0.09
1    Asian Restaurant  0.07
2                Pub  0.07
3        Coffee Shop  0.07
4                Bar  0.05


----TREDEGAR SQUARE----
          venue  freq
0           Pub  0.16
```

```
1    Pizza Place  0.16
2      Bus Stop  0.10
3   Coffee Shop  0.10
4  Burger Joint  0.06


----TRINITY STREET----
             venue  freq
0              Pub  0.33
1            Hotel  0.17
2         Gastropub  0.08
3  Sandwich Place  0.08
4      Coffee Shop  0.08


----UPPER HAMPSTEAD WALK----
              venue  freq
0              Café  0.10
1               Pub  0.10
2            Bakery  0.06
3  Ice Cream Shop    0.05
4  Clothing Store    0.05


----WALPOLE GARDENS----
                venue  freq
0                 Pub  0.22
1     Thai Restaurant  0.22
2                Park  0.11
3            Bus Stop  0.11
4  Convenience Store   0.11


----WALPOLE STREET----
               venue  freq
0                Pub  0.17
1              Hotel  0.11
2   Asian Restaurant  0.06
3       Burger Joint  0.06
4               Café  0.06


----WARWICK SQUARE----
                 venue  freq
0        Sandwich Place  0.50
1       Automotive Shop  0.25
2           Coffee Shop  0.25
3                   ATM  0.00
4  Outdoor Supply Store  0.00


----WELBECK WAY----
                  venue  freq
0     Chinese Restaurant   0.2
1  Fast Food Restaurant   0.2
```

```
2            Playground   0.2
3       Warehouse Store   0.2
4     Fish & Chips Shop   0.2


----WELLESLEY TERRACE----
          venue  freq
0           Pub  0.12
1  Grocery Store  0.08
2         Hotel  0.08
3    Coffee Shop  0.06
4          Park  0.06


----WELLINGTON STREET----
         venue  freq
0   Coffee Shop  0.19
1        Hotel  0.08
2  Concert Hall  0.04
3    Food Truck  0.04
4          Café  0.04


----WESTMORELAND PLACE----
          venue  freq
0     IT Services  0.06
1     Video Store  0.06
2      Bagel Shop  0.06
3   Grocery Store  0.06
4  Breakfast Spot  0.06


----WHITFIELD STREET----
                  venue  freq
0           Coffee Shop  0.14
1                  Café  0.05
2                Bakery  0.04
3     Italian Restaurant  0.04
4  Gym / Fitness Center  0.03


----WILFRED STREET----
                  venue  freq
0           Coffee Shop  0.11
1                 Hotel  0.09
2        Sandwich Place  0.06
3                Theater  0.05
4  Sporting Goods Shop  0.02


----WILLOW BRIDGE ROAD----
                  venue  freq
0                   Pub  0.23
1           Coffee Shop  0.09
2                  Park  0.09
```

```
3                    Café   0.09
4   Japanese Restaurant   0.05


----WILSON STREET----
                            venue   freq
0                  Sandwich Place    1.0
1                             ATM    0.0
2               Pedestrian Plaza    0.0
3                            Park    0.0
4   Paper / Office Supplies Store    0.0


----WINCHENDON ROAD----
                venue  freq
0                 Pub  0.14
1         Pizza Place  0.14
2                Café  0.07
3   Indian Restaurant  0.07
4   Chinese Restaurant  0.07


----WINGATE ROAD----
                 venue   freq
0          Supermarket   0.25
1            Gastropub   0.25
2     Electronics Store   0.25
3        Warehouse Store   0.25
4   Other Great Outdoors   0.00
```
Define a function to return the most common venues/facilities nearby real estate investments#

```python
def return_most_common_venues(row, num_top_venues):
    row_categories = row.iloc[1:]
    row_categories_sorted = row_categories.sort_values(ascending=False)

    return row_categories_sorted.index.values[0:num_top_venues]

num_top_venues = 10

indicators = ['st', 'nd', 'rd']

# create columns according to number of top venues
columns = ['Street']
for ind in np.arange(num_top_venues):
    try:
        columns.append('{}{} Most Common Venue'.format(ind+1, indicators[ind]))
    except:
        columns.append('{}th Most Common Venue'.format(ind+1))

# create a new dataframe
venues_sorted = pd.DataFrame(columns=columns)
venues_sorted['Street'] = london_grouped['Street']

for ind in np.arange(london_grouped.shape[0]):
```

```
    venues_sorted.iloc[ind, 1:] = return_most_common_venues(london_grouped.iloc[ind,
:], num_top_venues)
```

```
venues_sorted.head()
```

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	Street	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue
0	ALBION SQUARE	Café	Pub	Bar	Restaurant	Coffee Shop	Indian Restaurant
1	ANHALT ROAD	Pub	Grocery Store	Diner	French Restaurant	Garden	English Restaurant
2	ANSDELL TERRACE	Hotel	Pub	Restaurant	Clothing Store	Italian Restaurant	Indian Restaurant
3	APPLEGARTH ROAD	Pub	Casino	Nightclub	Fish & Chips Shop	Factory	Falafel Restaurant
4	BARONSMEAD ROAD	Pub	Restaurant	Breakfast Spot	Food & Drink Shop	Nature Preserve	Bookstore

```
venues_sorted.shape
london_grouped.shape
london_grouped=df1
```

After our inspection of venues/facilities/amenities nearby the most profitable real estate investments in London, we could begin by clustering properties by venues/facilities/amenities nearby.

```
# set number of clusters
```

```python
kclusters = 5

london_grouped_clustering = london_grouped.drop('Street', 1)

# run k-means clustering
kmeans = KMeans(n_clusters=kclusters, random_state=0).fit(london_grouped_clustering)

# check cluster labels generated for each row in the dataframe
kmeans.labels_[0:50]
```

```
array([1, 3, 0, 3, 2, 1, 2, 0, 0, 1, 3, 3, 3, 1, 2, 2, 1, 3, 0, 1, 4, 4,
       3, 1, 1, 0, 3, 4, 1, 0, 3, 2, 3, 2, 2, 4, 3, 3, 2, 0, 1, 2, 4, 0,
       4, 0, 0, 4, 0, 0], dtype=int32)
```
#Dataframe to include Clusters

```python
london_grouped_clustering=df1
london_grouped_clustering.head()
```

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	Street	Avg_Price	Latitude	
196	ALBION SQUARE	2450000.0	-41.273758	1
391	ANHALT ROAD	2435000.0	51.480316	-
406	ANSDELL TERRACE	2250000.0	51.499890	-
422	APPLEGARTH ROAD	2400000.0	53.748654	-
855	BARONSMEAD ROAD	2375000.0	51.477315	-

```python
london_grouped_clustering.shape
```

```
(162, 4)
```
```python
df1.shape
```

```
(162, 4)
```
```python
london_grouped_clustering.dtypes
```

```
Street        object
Avg_Price     float64
```

```
Latitude      float64
Longitude     float64
dtype: object
df1.dtypes

Street         object
Avg_Price     float64
Latitude      float64
Longitude     float64
dtype: object
# add clustering labels
london_grouped_clustering['Cluster Labels'] = kmeans.labels_

# merge london_grouped with london_data to add latitude/longitude for each
neighborhood
london_grouped_clustering =
london_grouped_clustering.join(venues_sorted.set_index('Street'), on='Street')

london_grouped_clustering.head(30) # check the last columns!
```

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	Street	Avg_Price	Latitude	Longitude	Cluster Labels	1st Most Common Venue	2... C
196	ALBION SQUARE	2.450000e+06	-41.273758	173.289393	1	Café	Pu
391	ANHALT ROAD	2.435000e+06	51.480316	-0.166801	3	Pub	G St
406	ANSDELL TERRACE	2.250000e+06	51.499890	-0.189103	0	Hotel	Pu
422	APPLEGARTH ROAD	2.400000e+06	53.748654	-0.326670	3	Pub	C

	Street	Avg_Price	Latitude	Longitude	Cluster Labels	1st Most Common Venue	2...
855	BARONSMEAD ROAD	2.375000e+06	51.477315	-0.239457	2	Pub	R
981	BEAUCLERC ROAD	2.480000e+06	51.499577	-0.229033	1	Pub	C Sl
1102	BELVEDERE DRIVE	2.340000e+06	52.414209	1.724415	2	Pub	S R
1215	BICKENHALL STREET	2.208500e+06	51.521201	-0.158908	0	Coffee Shop	H
1253	BIRCHLANDS AVENUE	2.217000e+06	51.448394	-0.160468	0	Pub	B S
1553	BRAMPTON GROVE	2.456875e+06	51.589961	-0.318525	1	Food Service	Z
1632	BRIARDALE GARDENS	2.397132e+06	51.560175	-0.195431	3	Grocery Store	O G O
1797	BROOKWAY	2.400000e+06	45.432185	-122.802812	3	Art Gallery	A R
1914	BURBAGE ROAD	2.445000e+06	51.448260	-0.088507	3	Gastropub	A &
1980	BURY WALK	2.492500e+06	52.145529	-0.423593	1	Supermarket	E R
2068	CALLCOTT STREET	2.375000e+06	51.508350	-0.198328	2	Pub	Pa

	Street	Avg_Price	Latitude	Longitude	Cluster Labels	1st Most Common Venue	2...C...
2129	CAMPDEN HILL ROAD	2.379653e+06	51.501410	-0.195116	2	Café	C St
2136	CAMPION ROAD	2.461000e+06	52.681375	0.965471	1	Soccer Field	W
2158	CANNING PLACE	2.425000e+06	51.499570	-0.184248	3	Hotel	Pu
2225	CARLISLE ROAD	2.200000e+06	-36.709171	174.728281	0	Indian Restaurant	Pl
2230	CARLTON GARDENS	2.483500e+06	-37.801943	144.971970	1	Italian Restaurant	C
2242	CARLYLE COURT	2.300000e+06	32.972701	-97.173392	4	Farm	Z
2405	CHALCOT SQUARE	2.286679e+06	51.541196	-0.155817	4	Café	Pu
2483	CHARLES LANE	2.414000e+06	51.533837	-0.170298	3	Cricket Ground	C
2561	CHELSEA CRESCENT	2.495000e+06	34.522443	-85.443891	1	NaN	N
2605	CHESTER CLOSE NORTH	2.450000e+06	51.529205	-0.145081	1	Garden	C B

	Street	Avg_Price	Latitude	Longitude	Cluster Labels	1st Most Common Venue	2... C
2637	CHEYNE COURT	2.250000e+06	51.599677	0.525623	0	Construction & Landscaping	G
2640	CHEYNE ROW	2.410000e+06	51.483717	-0.169603	3	Café	P
2685	CHISWICK MALL	2.287500e+06	51.487185	-0.248017	4	Pub	A M
2760	CITY ROAD	2.468340e+06	51.529697	-0.097763	1	Pub	C Sl
2807	CLARENDON STREET	2.250000e+06	51.365160	1.108569	0	Indian Restaurant	G St

```python
# Create Map

map_clusters = folium.Map(location=[latitude, longitude], zoom_start=11)

# set color scheme for the clusters
x = np.arange(kclusters)
ys = [i+x+(i*x)**2 for i in range(kclusters)]
colors_array = cm.rainbow(np.linspace(0, 1, len(ys)))
rainbow = [colors.rgb2hex(i) for i in colors_array]

# add markers to the map
markers_colors = []
for lat, lon, poi, cluster in zip(london_grouped_clustering['Latitude'],
london_grouped_clustering['Longitude'], london_grouped_clustering['Street'],
london_grouped_clustering['Cluster Labels']):
    label = folium.Popup(str(poi) + ' Cluster ' + str(cluster), parse_html=True)
    folium.CircleMarker(
        [lat, lon],
        radius=5,
        popup=label,
        color=rainbow[cluster-1],
        fill=True,
        fill_color=rainbow[cluster-1],
        fill_opacity=0.7).add_to(map_clusters)

map_clusters
```

<iframe src="data:text/html;charset=utf-8;base64,PCFET0NUWVBFIGh0bWw+CjxoZWFkPiAgICAKICAgIDxtZXRhIGh0dHAtZXF1aXY9ImNvbnRlbnQtdHlwZSIgY29udGVudD0idGV4dC9odG1sOyBjaGFyc2V0PVVURi04IiAvPgogICAgPHNjcmlwdD5MX1BSRUZVUl9DQU5WQVMgPSBmYWxzZTsgTF9OT19UT1VDSCA9IGZhbHNlOyBMX0RJU0JVUl9GQ0VWfM0QgPSBmYWxzZTs8L3NjcmlwdD4KICAgIDxzY3JpcHQgc3JjPSJodHRwczovL2Nkbi5qc2RlbGl2ci5uZXQvbnBtL2xlYWZsZXRAMS4yLjAvZGlzdC9sZWFmbGV0Lmpzlj48L3NjcmlwdD4KICAgIDxzY3JpcHQgc3JjPSJodHRwczovL2FqYXguuZ29vZ2xlYXBpcy5jb20vYWpheC9saWJzL2pxdWVyeS8xLjExLjEvanF1ZXJ5Lm1pbi5qcyI+PC9zY3JpcHQ+CiAgICA8c2NyaXB0IHNyYz0iaHR0cHM6Ly9jZG4uYm9vdHN0cmFwY2RuLmNvbS9ib290c3RyYXAvMy4yLjAvanMvYm9vdHN0cmFwLm1pbi5qcyI+PC9zY3JpcHQ+CiAgICA8c2NyaXB0IHNyYz0iaHR0cHM6Ly9jZG5qcy5jbG91ZGZsYXJlLmNvbS9hamF4L2xpYnMvTGVhZmxldC5hd2Vzb21lLW1hcmtlcnMvMi4wLjIvbGVhZmxldC5hd2Vzb21lLW1hcmtlcnMuanMiPjwvc2NyaXB0PgogICAgPGxpbmsgcmVsPSJzdHlsZXNoZWV0IiBocmVmPSJodHRwczovL2Nkbi5qc2RlbGl2ci5uZXQvbnBtL2xlYWZsZXRAMS4yLjAvZGlzdC9sZWFmbGV0LmNzcyIvPgogICAgPGxpbmsgcmVsPSJzdHlsZXNoZWV0IiBocmVmPSJodHRwczovL2Nkbi5ib290c3RyYXBjZG4uY29tL2Jvb3RzdHJhcC8zLjIuMC9jc3MvYm9vdHN0cmFwLm1pbi5jc3MiLz4KICAgIDxsaW5rIHJlbD0ic3R5bGVzaGVldCIgaHJlZj0iaHR0cHM6Ly9tYXhjZG4uYm9vdHN0cmFwY2RuLmNvbS9mb250LWF3ZXNvbWUvNC42LjMvY3NzL2ZvbnQtYXdlc29tZS5taW4uY3NzIi8+CiAgICA8bGluayByZWw9InN0eWxlc2hlZXQiIGhyZWY9Imh0dHBzOi8yYXdnaXQuY29tL3B5dGhvbi12aXN1YWxpemF0aW9uL2ZvbGl1bS9tYXN0ZXIvZm9saXVtL3RlbXBsYXRlcy9sZWFmbGV0LmF3ZXNvbWUucm90YXRlLmNzcyIvPgogICAgPHN0eWxlPmh0bWwsIGJvZHkge3dpZHRoOiAxMDAlO2hlaWdodDogMTAwJTttYXJnaW46IDA7cGFkZGluZzogMDt9PC9zdHlsZT4KICAgIDxzdHlsZT4jbWFwIHtwb3NpdGlvbjphYnNvbHV0ZTt0b3A6MDtib3R0b206MDtyaWdodDowO2xlZnQ6MDt9PC9zdHlsZT4KICAgIAogICAgPG1ldGEgbmFtZT0idmlld3BvcnQiIGNvbnRlbnQ9IndpZHRoPWRldmljZS13aWR0aCwKICAgICAgICBpbml0aWFsLXNjYWxlPTEuMCwgbWF4aW11bS1zY2FsZT0xLjAsIHVzZXItc2NhbGFibGU9bm8iIC8+CiAgICA8c3R5bGU+I21hcF8xMjRkZQxZDFmYTk4NDBmZjk5N2FjOWE2M2FhNjMxNmMge3Bvc2l0aW9uOiByZWxhdGl2ZTt3aWR0aDogMTAwLjAlO2hlaWdodDogMTAwLjAlO2xlZnQ6IDAuMCU7dG9wOiAwLjAlO308L3N0eWxlPgo8L2hlYWQ+Cjxib2R5PiAgICAKICAgIDxkaXYgY2xhc3M9ImZvbGl1bS1tYXAiIGlkPSJtYXBfMTI0ZGQxZmE5ODQwZmY5OTdhYzlhNjNhYTYzMTZjIiA+PC9kaXY+CjwvYm9keT4KPHNjcmlwdD4gICAgCiAgICAKICAgICAgICB2YXIgYm91bmRzID0gbnVsbDsKICAgICAgICAKCiAgICAgICAgdmFyIG1hcF8xMjRkZDFmYTk4NDBmZjk5N2MM5YTYzYTE2MzE2YyA9IEwubWFwKAogICAgICAgICAgICAgICAgJ21hcF8xMjRkZDFmYTk4NDBmZjk5N2MM

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london_grouped_clustering.loc[london_grouped_clustering['Cluster Labels'] == 0,
london_grouped_clustering.columns[[1] + list(range(5,
london_grouped_clustering.shape[1]))]].head()
```

	Avg_Price	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue
406	2250000.0	Hotel	Pub	Restaurant	Clothing Store	Italian Restaurant	Indian Restaurant
1215	2208500.0	Coffee Shop	Hotel	Café	Pizza Place	Chinese Restaurant	Grocery Store
1253	2217000.0	Pub	Breakfast Spot	Coffee Shop	Brewery	Chinese Restaurant	Train Station
2225	2200000.0	Indian Restaurant	Pharmacy	Café	Fish & Chips Shop	Liquor Store	Sandwich Place
2637	2250000.0	Construction & Landscaping	Gastropub	Zoo	Fish Market	Factory	Falafel Restaurant

```
london_grouped_clustering.loc[london_grouped_clustering['Cluster Labels'] == 1,
london_grouped_clustering.columns[[1] + list(range(5,
london_grouped_clustering.shape[1]))]].head()
```

	Avg_Price	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue
196	2450000.0	Café	Pub	Bar	Restaurant	Coffee Shop	Indian Restaurant
981	2480000.0	Pub	Coffee Shop	Hotel	Grocery Store	Thai Restaurant	Gym
1553	2456875.0	Food Service	Zoo	Fish Market	Factory	Falafel Restaurant	Farm
1980	2492500.0	Supermarket	English Restaurant	Café	Gym	Dry Cleaner	Hardware Store
2136	2461000.0	Soccer Field	Windmill	Spa	Zoo	Factory	Falafel Restaurant

```
london_grouped_clustering.loc[london_grouped_clustering['Cluster Labels'] == 2,
london_grouped_clustering.columns[[1] + list(range(5,
london_grouped_clustering.shape[1]))]].head()
```

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}

.dataframe thead th {
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}
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	Avg_Price	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue
855	2375000.0	Pub	Restaurant	Breakfast Spot	Food & Drink Shop	Nature Preserve	Bookstore
1102	2340000.0	Pub	Seafood Restaurant	Campground	Fish & Chips Shop	Vacation Rental	Fast Food Restaurant
2068	2375000.0	Pub	Park	Grocery Store	Pizza Place	Hotel	Indian Restaurant
2129	2379652.7	Café	Clothing Store	Italian Restaurant	Hotel	Bakery	French Restaurant
2943	2367500.0	Hotel	Pub	Garden	Italian Restaurant	Café	Coffee Shop

```
london_grouped_clustering.loc[london_grouped_clustering['Cluster Labels'] == 3,
london_grouped_clustering.columns[[1] + list(range(5,
london_grouped_clustering.shape[1]))]].head()
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	Avg_Price	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue
391	2435000.0	Pub	Grocery Store	Diner	French Restaurant	Garden	English Restaurant
422	2400000.0	Pub	Casino	Nightclub	Fish & Chips Shop	Factory	Falafel Restaurant
1632	2397132.0	Grocery Store	Other Great Outdoors	Indian Restaurant	Seafood Restaurant	Convenience Store	Coffee Shop
1797	2400000.0	Art Gallery	Asian Restaurant	Zoo	Flea Market	Falafel Restaurant	Farm
1914	2445000.0	Gastropub	Athletics & Sports	Pub	Greek Restaurant	Food & Drink Shop	Pizza Place

```
london_grouped_clustering.loc[london_grouped_clustering['Cluster Labels'] == 4,
london_grouped_clustering.columns[[1] + list(range(5,
london_grouped_clustering.shape[1]))]].head()
```

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	Avg_Price	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue
2242	2.300000e+06	Farm	Zoo	Fish Market	Factory	Falafel Restaurant	Farmers Market
2405	2.286679e+06	Café	Pub	Bar	Italian Restaurant	Coffee Shop	French Restaurant
2685	2.287500e+06	Pub	Art Museum	Reservoir	Gift Shop	Brewery	Hunan Restaurant
3376	2.298000e+06	Hotel	Zoo	Fish Market	Factory	Falafel Restaurant	Farm
4284	2.265000e+06	Pub	Fish & Chips Shop	Exhibit	Factory	Falafel Restaurant	Farm

Results and Discussion section

First of all, even though the London Housing Market may be in a rut, it is still an "ever-green" for business affairs.

We may discuss our results under two main perspectives.

First, we may examine them according to neighborhoods/London areas. It is interesting to note that, although West London (Notting Hill, Kensington, Chelsea, Marylebone) and North-West London (Hampsted) might be considered highly profitable venues to purchase a real estate according to amenities and essential facilities surrounding such venues i.e. elementary schools, high schools, hospitals & grocery stores, South-West London (Wandsworth, Balham) and North-West London (Isliington) are arising as next future elite venues with a wide range of amenities and facilities. Accordingly, one might target under-priced real estates in these areas of London in order to make a business affair.

Second, we may analyze our results according to the five clusters we have produced. Even though, all clusters could praise an optimal range of facilities and amenities, we

have found two main patterns. The first pattern we are referring to, i.e. Clusters 0, 2 and 4, may target home buyers prone to live in 'green' areas with parks, waterfronts. Instead, the second pattern we are referring to, i.e. Clusters 1 and 3, may target individuals who love pubs, theatres and soccer.

Conclusion

Finally, we drew the conclusion that even though the London Housing Market may be in a rut, it is still an "ever-green" for business affairs. We discussed our results under two main perspectives. First, we examined them according to neighborhoods/London areas. although West London (Notting Hill, Kensington, Chelsea, Marylebone) and North-West London (Hampsted) might be considered highly profitable venues to purchase a real estate according to amenities and essential facilities surrounding such venues i.e. elementary schools, high schools, hospitals & grocery stores, South-West London (Wandsworth, Balham) and North-West London (Isliington) are arising as next future elite venues with a wide range of amenities and facilities. Accordingly, one might target under-priced real estates in these areas of London in order to make a business affair. Second, we analyzed our results according to the five clusters we produced. While Clusters 0, 2 and 4 may target home buyers prone to live in 'green' areas with parks, waterfronts, Clusters 1 and 3 may target individuals who love pubs, theatres and soccer.