# try to analyze in python

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```python
In [6]: import pandas as pd
        import sqlite3
        import matplotlib.pyplot as plt
        from sklearn import linear_model
        from sklearn.model_selection import train_test_split
        from sklearn.cluster import KMeans
        with sqlite3.connect('meetsup.db') as con :
            df= pd.read_sql_query("SELECT * FROM Events", con=con)

            # view data

            print(df.shape)
            print(df.dtypes)
            print(df.head())
            x = df['Duration'].values
            y = df['fee_amount'].values
            plt.scatter(x, y)
            plt.show()

            # Seems no relationship between x and y.
            # divide dataset into training set and testing set.

            x_train, x_test, y_train, y_test = train_test_split(x, y,
                                        test_size= 0.1, random_state=4

            print(x_train)

            # lets find some relationship between Duration and fee_amount.
            # linear model
            lm = linear_model.LinearRegression()
            lm.fit=lm.fit(x_train.reshape(-1,1), y_train.reshape(-1,1))

            # we can also try other machine learning algorithm with .db files.

(5807, 14)
Event_id         object
Created_date     object
Description      object
```

```
Duration             int64
event_url           object
fee_amount         float64
currency            object
group_id             int64
event_name          object
event_status        object
event_time          object
venue_id             int64
visibility          object
waitlist_count       int64
dtype: object
     Event_id         Created_date  \
0   153868222  2013-12-03 21:24:29
1   184167702  2014-05-20 18:52:00
2   215200502  2014-10-23 16:18:44
3   220826782  2015-02-28 19:27:32
4   227948102  2016-01-08 21:35:40


                                         Description  Duration  \
0  Solve the murder case while eating a 3 course ...     20700
1  NOTE: This event is EVERY FRIDAY!! Signup is a...     77400
2  We'll be heading out with a group of travelers...     37800
3  NOTE: This event is EVERY FRIDAY!! Signup is a...    113400
4  Aussie Aussie Aussie, Oi Oi Oi! Join us for th...     36000


                                          event_url  fee_amount   currency  \
0  https://www.meetup.com/SanFranciscoStartupFun/...         0.0  not_found
1  https://www.meetup.com/hr-and-tech-sf/events/1...         0.0  not_found
2  https://www.meetup.com/hr-and-tech-sf/events/2...         0.0  not_found
3  https://www.meetup.com/SanFranciscoStartupFun/...         0.0  not_found
4  https://www.meetup.com/hr-and-tech-sf/events/2...         0.0  not_found

   group_id                                   event_name event_status  \
0   5817262  Murder Mystery Dinner Crawl. Dine at 3 Restaur...     upcoming
1   1627081  Friday Night Drinks with International Travele...     upcoming
2   1627081           Dinner, Comedy, 100 Beers & Debauchery!     upcoming
3   5817262                             Friday Night Drinks     upcoming
4   1627081  AUSTRALIA DAY PARTY & Sausage Sizzle! $3 Beer/...     upcoming


            event_time  venue_id visibility  waitlist_count
0  2017-10-30 02:30:00  23729697     public               0
1  2017-10-28 04:00:00  16948982     public               0
2  2017-10-27 03:00:00  24717469     public               0
3  2017-10-28 04:00:00    724783     public               0
4  2018-01-26 01:00:00  20984572     public               0
```
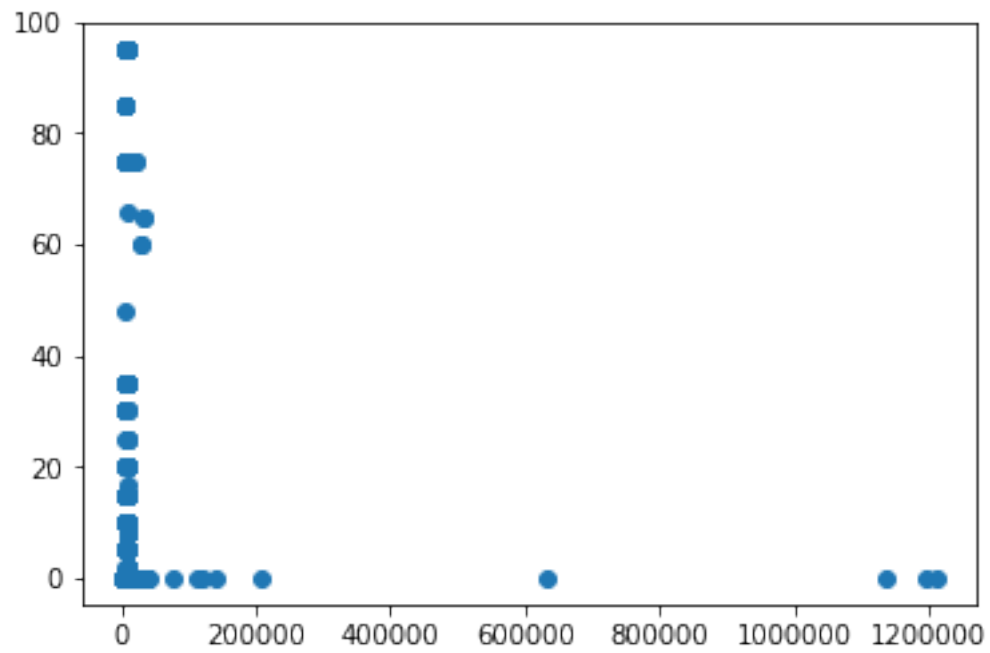
[10800  9000  9000 ... 10800 10800  8100]

In [ ]: