-

Yelp Exploratory Data Analysis

For this project, you will analyze Yelp Dataset. The data contains 3 main tables

- yelp_academic_dataset_business.csv contains information about a subset of businesses having at least one Yelp review. Every distinct business has a unique business_id
- yelp_academic_dataset_review.csv contains a subset of Yelp reviews with a business_id indicating what business the review is for and a user_id to identify the user leaving the review
- yelp_academic_dataset_user.csv contains a subset of Yelp users identified by user_id

What you need to do

Goal in this notebook is to work through the problems below to perform some brief analyses of the yelp_academic_dataset_business.csv data.

Configuration

```
In [2]: # Load the libraries you need...
import pandas as pd
import wordcloud
import statistics as st
import numpy as np
import matplotlib
import pprint as pp
import math as mth
import seaborn as sns
import matplotlib.pyplot as plt
import os

%matplotlib inline
```

```
In [3]: # Options to display more rows and columns
# DO NOT REMOVE
pd.set_option('display.max_rows', 500)
pd.set_option('display.max_columns', 500)
pd.set_option('display.width', 100)

fpath = 'C:/Code/Python/UND/notebooks'
```

Out[4]:

	address	attributes	attributes.AcceptsInsurance	attributes.AgesAllowed	attributes.Alcohol	attributes.Ambier
0	1314 44 Avenue NE	NaN	NaN	NaN	NaN	N
1	NaN	NaN	NaN	NaN	none	N
2	1335 rue Beaubien E	NaN	NaN	NaN	beer_and_wine	{'romantic': Fal 'intimate': Fal 'class

Task Set #1 - Explore and Clean

Problem 1: (5 points)

The `yelp_academic_dataset_business.csv` data has been loaded for you as a Pandas DataFrame called `business_data`. Determine the number of rows and columns of the data. Is the data in a tidy format? Briefly explain your reasoning about why you think the data is/is not tidy.

```
In [5]: # Your code here
    x,y = business_data.shape
    f'There are {x} rows and {y} colmns in YELP Business Dataset.'

Out[5]: 'There are 188593 rows and 61 colmns in YELP Business Dataset.'

In [6]: f'The YELP business data is not tidy. For example, several variables contain a dict ionary of values which can be split into multiple columns. Ex: Ambience, Business P arking, Good For Meal, Categories etc.'
Out[6]: 'The YELP business data is not tidy. For example, several variables contain a dictionary of values which can be split into multiple columns. Ex: Ambience, Busin
```

ess Parking, Good For Meal, Categories etc.'

In [7]: business_data.isna().sum()

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0 1 [7]		= coo
Out[7]:		7623
	attributes	188593 176922
	attributes.AcceptsInsurance attributes.AgesAllowed	188196
	attributes.Alcohol	140701
	attributes.Ambience	141016
	attributes.BYOB	187682
	attributes.BYOBCorkage	187184
	attributes.BestNights	181749
	attributes.BikeParking	103702
	attributes.BusinessAcceptsBitcoin	175919
	attributes.BusinessAcceptsCreditCards	48202
	attributes.BusinessParking	85169
	attributes.ByAppointmentOnly	143170
	attributes.Caters	148555
	attributes.CoatCheck	180062
	attributes.Corkage	187936
	attributes.DietaryRestrictions	188455
	attributes.DogsAllowed	174912
	attributes.DriveThru	181839
	attributes.GoodForDancing	179431
	attributes.GoodForKids	123662
	attributes.GoodForMeal	141110
	attributes.HairSpecializesIn	186712
	attributes.HappyHour	179308
	attributes.HasTV	141060
	attributes.Music	179786
	attributes.NoiseLevel	144883
	attributes.Open24Hours	188241
	attributes.OutdoorSeating	134412
	attributes.RestaurantsAttire	140411
	attributes.RestaurantsCounterService	188196
	attributes.RestaurantsDelivery	136925
	attributes.RestaurantsGoodForGroups	134754
	attributes.RestaurantsPriceRange2 attributes.RestaurantsReservations	81473
	attributes.RestaurantsTableService	137230 145268
	attributes.RestaurantsTakeOut	127387
	attributes. Smoking	180480
	attributes.WheelchairAccessible	136570
	attributes.WiFi	139567
	business id	0
	categories	541
	city	10
	hours	188593
	hours.Friday	46797
	hours.Monday	55832
	hours.Saturday	63217
	hours.Sunday	95206
	hours.Thursday	46234
	hours.Tuesday	47986
	hours.Wednesday	46750
	is_open	0
	latitude	6
	longitude	6
	name	0
	neighborhood	119938
	postal_code	681
	review_count	0
	stars	0
	state	0
	dtype: int64	

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```
In [8]: business_data = business_data.drop(columns = 'hours')
In [9]: business_data.shape
Out[9]: (188593, 60)
```

Written Answer:

The YELP business data is not tidy. For example, several variables contain a dictionary of values which can be split into multiple columns. Ex: Ambience, Business Parking, Good For Meal, Categories etc.

Problem 2: (5 points)

Determine the number of columns of each data type in `business_data`: object, float64, int64.

```
In [10]: # Your code here
         def df_metadata(arg_df):
             #arg_df = business_data
             11 = pd.Series([col for col in arg df.columns])
             12 = pd.Series([arg df[col].dtype for col in arg df.columns])
             13 = arg df.shape[0]
             14 = pd.Series([arg df[col].isnull().sum() for col in arg df.columns])
             15 = pd.Series([round((arg df[col].isnull().sum()*100)/13,2)) for col in arg df.
         columns])
             frame = { 'Column Name': 11, 'Column Datatype': 12, 'Row Count': 13, 'Null Coun
         t':14, 'Null Ratio Pct':15 }
             ret df = pd.DataFrame(frame)
             return ret df
In [11]: md_business_data = df_metadata(business_data)
         md business data.Column Datatype.value counts()
Out[11]: object
                    53
                   5
         float64
                    2
         int64
         Name: Column Datatype, dtype: int64
```

Problem 3: (5 points)

Create a Pandas Series containing the proportion of missing values in each column of 'business data'.

```
In [12]: # Your code her
md_business_data[['Column_Name', 'Null_Ratio_Pct']]
```

Out[12]:

	Column_Name	Null_Ratio_Pct
0	address	4.04
1	attributes	100.00
2	attributes.AcceptsInsurance	93.81
3	attributes.AgesAllowed	99.79
4	attributes.Alcohol	74.61
5	attributes.Ambience	74.77
6	attributes.BYOB	99.52
7	attributes.BYOBCorkage	99.25
8	attributes.BestNights	96.37
9	attributes.BikeParking	54.99
10	attributes.BusinessAcceptsBitcoin	93.28
11	attributes. Business Accepts Credit Cards	25.56
12	attributes.BusinessParking	45.16
13	attributes.ByAppointmentOnly	75.91
14	attributes.Caters	78.77
15	attributes.CoatCheck	95.48
16	attributes.Corkage	99.65
17	attributes.DietaryRestrictions	99.93
18	attributes.DogsAllowed	92.75
19	attributes.DriveThru	96.42
20	attributes.GoodForDancing	95.14
21	attributes.GoodForKids	65.57
22	attributes.GoodForMeal	74.82
23	attributes.HairSpecializesIn	99.00
24	attributes.HappyHour	95.08
25	attributes.HasTV	74.80
26	attributes.Music	95.33
27	attributes.NoiseLevel	76.82
28	attributes.Open24Hours	99.81
29	attributes.OutdoorSeating	71.27
30	attributes.RestaurantsAttire	74.45
31	attributes.RestaurantsCounterService	99.79
32	attributes.RestaurantsDelivery	72.60
33	attributes.RestaurantsGoodForGroups	71.45
34	attributes.RestaurantsPriceRange2	43.20
35	attributes.RestaurantsReservations	72.77
36	attributes.RestaurantsTableService	77.03
37	attributes.RestaurantsTakeOut	67.55

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	Column_Name	Null_Ratio_Pct
38	attributes.Smoking	95.70
39	attributes.WheelchairAccessible	72.42
40	attributes.WiFi	74.00
41	business_id	0.00
42	categories	0.29
43	city	0.01
44	hours.Friday	24.81
45	hours.Monday	29.60
46	hours.Saturday	33.52
47	hours.Sunday	50.48
48	hours.Thursday	24.52
49	hours.Tuesday	25.44
50	hours.Wednesday	24.79
51	is_open	0.00
52	latitude	0.00
53	longitude	0.00
54	name	0.00
55	neighborhood	63.60
56	postal_code	0.36

```
In [13]: md_business_data[['Null_Ratio_Pct']]
```

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Out[13]:

	Null_Ratio_Pct
0	4.04
1	100.00
2	93.81
3	99.79
4	74.61
5	74.77
6	99.52
7	99.25
8	96.37
9	54.99
10	93.28
11	25.56
12	45.16
13	75.91
14	78.77
15	95.48
16	99.65
17	99.93
18	92.75
19	96.42
20	95.14
21	65.57
22	74.82
23	99.00
24	95.08
25	74.80
26	95.33
27	76.82
28	99.81
29	71.27
30	74.45
31	99.79
32	72.60
33	71.45
34	43.20
35	72.77
36	77.03
37	67.55
38	95.70

	Null_Ratio_Pct
39	72.42
40	74.00
41	0.00
42	0.29
43	0.01
44	24.81
45	29.60
46	33.52
47	50.48
48	24.52
49	25.44
50	24.79
51	0.00
52	0.00
53	0.00
54	0.00
55	63.60
56	0.36
57	0.00

How many variables have no missing values?

```
In [14]: # Your code here
f3 = md_business_data.Null_Ratio_Pct == 0
df1 = md_business_data[f3]
df1
```

Out[14]:

	Column_Name	Column_Datatype	Row_Count	Null_Count	Null_Ratio_Pct
41	business_id	object	188593	0	0.0
51	is_open	int64	188593	0	0.0
52	latitude	float64	188593	6	0.0
53	longitude	float64	188593	6	0.0
54	name	object	188593	0	0.0
57	review_count	int64	188593	0	0.0
58	stars	float64	188593	0	0.0
59	state	object	188593	0	0.0

```
In [15]: n = len(df1) f'There are {n} columns which have no missing values.'
```

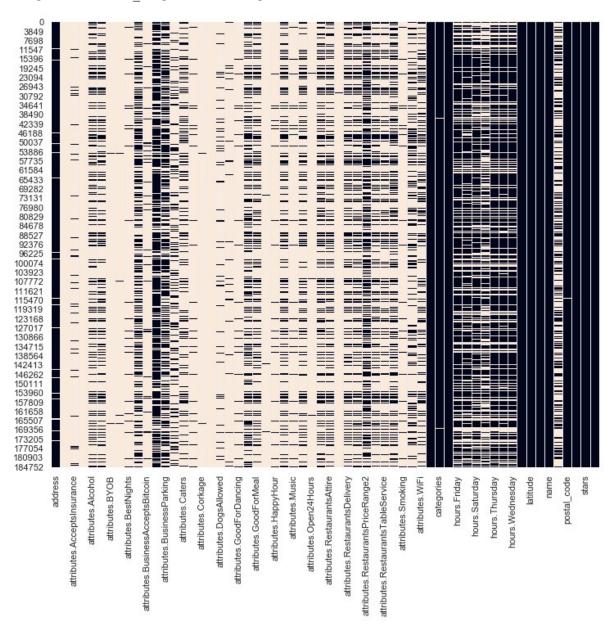
Out[15]: 'There are 8 columns which have no missing values.'

Problem 4: (5 points)

Use an appropriate visualization technique to analyze the missingness in 'business data'.

```
In [16]: # Use a heatmap, pointplot, or other appropriate visualization here
import seaborn as sns
sns.set(rc={'figure.figsize':(12,10)})
sns.heatmap(business_data.isnull(), cbar=False)
```

Out[16]: <matplotlib.axes._subplots.AxesSubplot at 0x1b400b61dd8>



Problem 5: (5 points)

Drop all columns that contain **only missing values** from `business_data`.

```
In [17]: # Your code here
    f5 = md_business_data.Null_Ratio_Pct == 100
    bad_cols = md_business_data[f5].Column_Name
    business_data = business_data.drop(columns = bad_cols)
    md_business_data = df_metadata(business_data)
```

In [18]: business_data.info()

<class 'pandas.core.frame.DataFrame'> RangeIndex: 188593 entries, 0 to 188592 Data columns (total 59 columns): 180970 non-null object attributes.AcceptsInsurance 11671 non-null object attributes.AgesAllowed 397 non-null object attributes.Alcohol 47892 non-null object attributes.Ambience 47577 non-null object 911 non-null object attributes.BYOB 1409 non-null object attributes.BYOBCorkage attributes.ByOBCorkage
attributes.BestNights
attributes.BikeParking
attributes.BusinessAcceptsBitcoin
attributes.BusinessAcceptsCreditCards
attributes.BusinessParking
attributes.BusinessParking
attributes.ByAppointmentOnly

45423 non-null object attributes.Caters 40038 non-null object attributes.CoatCheck 8531 non-null object attributes.Corkage 657 non-null object 138 non-null object attributes.DietaryRestrictions attributes.DogsAllowed 13681 non-null object 6754 non-null object 9162 non-null object 64931 non-null object 47483 non-null object 1881 non-null object attributes.DriveThru attributes.GoodForDancing attributes.GoodForKids attributes.GoodForMeal attributes.HairSpecializesIn 9285 non-null object attributes.HappyHour 47533 non-null object attributes.HasTV 8807 non-null object attributes.Music attributes.NoiseLevel 43710 non-null object attributes.Open24Hours 352 non-null object attributes.OutdoorSeating 54181 non-null object attributes.RestaurantsAttire 48182 non-null object attributes.RestaurantsCounterService 397 non-null object attributes.RestaurantsDelivery 51668 non-null object attributes.RestaurantsGoodForGroups attributes.RestaurantsPriceRange2 107120 non-null float64 attributes.RestaurantsReservations attributes.RestaurantsTableService 43325 non-null object attributes.RestaurantsTableService 43325 non-null object attributes.RestaurantsTakeOut 61206 non-null object 61206 non-null object attributes.RestaurantsTakeOut attributes.Smoking 8113 non-null object attributes.WheelchairAccessible 52023 non-null object attributes.WiFi 49026 non-null object 188593 non-null object business id 188052 non-null object categories 188583 non-null object city hours.Friday 141796 non-null object hours.Monday 132761 non-null object hours.Saturday 125376 non-null object hours.Sunday 93387 non-null object 142359 non-null object hours. Thursday 140607 non-null object hours.Tuesday 141843 non-null object hours.Wednesday 188593 non-null int64 is open 188587 non-null float64 latitude longitude 188587 non-null float64 188593 non-null object name neighborhood 68655 non-null object 187912 non-null object postal code 188593 non-null int64 review count 188593 non-null float64 stars 188593 non-null object dtypes: float64(4), int64(2), object(53)

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Problem 6: (5 points)

The `business_data` is not in a form that is convenient for analysis. Let's begin by cleaning up the variable names.

Tasks:

- 1. Make all column names lowercase.
- 2. Replace all periods . with an underscore _

```
In [19]: # Your code here
    orig_col_list = md_business_data.Column_Name
    new_col_list = orig_col_list.str.lower().str.replace('.', '__')

    rename_dict = dict(zip(orig_col_list, new_col_list))
    rename_dict

    business_data.rename(columns = rename_dict, inplace = True)
    md_business_data = df_metadata(business_data)

md_business_data
```

Out[19]:

	Column_Name	Column_Datatype	Row_Count	Null_Count	Null_Ratio_Pct
0	address	object	188593	7623	4.04
1	attributes_acceptsinsurance	object	188593	176922	93.81
2	attributes_agesallowed	object	188593	188196	99.79
3	attributes_alcohol	object	188593	140701	74.61
4	attributes_ambience	object	188593	141016	74.77
5	attributes_byob	object	188593	187682	99.52
6	attributes_byobcorkage	object	188593	187184	99.25
7	attributes_bestnights	object	188593	181749	96.37
8	attributes_bikeparking	object	188593	103702	54.99
9	attributes_businessacceptsbitcoin	object	188593	175919	93.28
10	attributes_businessacceptscreditcards	object	188593	48202	25.56
11	attributes_businessparking	object	188593	85169	45.16
12	attributes_byappointmentonly	object	188593	143170	75.91
13	attributes_caters	object	188593	148555	78.77
14	attributes_coatcheck	object	188593	180062	95.48
15	attributes_corkage	object	188593	187936	99.65
16	attributes_dietaryrestrictions	object	188593	188455	99.93
17	attributes_dogsallowed	object	188593	174912	92.75
18	attributes_drivethru	object	188593	181839	96.42
19	attributes_goodfordancing	object	188593	179431	95.14
20	attributes_goodforkids	object	188593	123662	65.57
21	attributes_goodformeal	object	188593	141110	74.82
22	attributes_hairspecializesin	object	188593	186712	99.00
23	attributes_happyhour	object	188593	179308	95.08
24	attributes_hastv	object	188593	141060	74.80
25	attributes_music	object	188593	179786	95.33
26	attributes_noiselevel	object	188593	144883	76.82
27	attributes_open24hours	object	188593	188241	99.81
28	attributes_outdoorseating	object	188593	134412	71.27
29	attributes_restaurantsattire	object	188593	140411	74.45
30	attributes_restaurantscounterservice	object	188593	188196	99.79
31	attributes_restaurantsdelivery	object	188593	136925	72.60

	Column_Name	Column_Datatype	Row_Count	Null_Count	Null_Ratio_Pct
32	attributes_restaurantsgoodforgroups	object	188593	134754	71.45
33	attributes_restaurantspricerange2	float64	188593	81473	43.20
34	attributes_restaurantsreservations	object	188593	137230	72.77
35	attributes_restaurantstableservice	object	188593	145268	77.03
36	attributes_restaurantstakeout	object	188593	127387	67.55
37	attributes_smoking	object	188593	180480	95.70
38	attributes_wheelchairaccessible	object	188593	136570	72.42
39	attributes_wifi	object	188593	139567	74.00
40	business_id	object	188593	0	0.00
41	categories	object	188593	541	0.29
42	city	object	188593	10	0.01
43	hours_friday	object	188593	46797	24.81
44	hours_monday	object	188593	55832	29.60
45	hours_saturday	object	188593	63217	33.52
46	hours_sunday	object	188593	95206	50.48
47	hours_thursday	object	188593	46234	24.52
48	hours_tuesday	object	188593	47986	25.44
49	hours_wednesday	object	188593	46750	24.79

Problem 7: (5 points)

Let's now get rid of columns that we don't need right now. Perform the following transformation steps to the data.

- 1. Drop all ${\tt attribute_*}$ columns except for the ${\tt attributes_happyhour}$ column.
- 2. Create a new column, called <code>open_on_weekends</code>, that is a 1 if the business is open on the weekend (has a non-null value for either <code>hours_saturday or hours_sunday</code>) and 0 otherwise.
- 3. Drop all of the $hours_*$ columns after creating the $open_on_weekends$ column.

```
In [20]: # Drop all of the unwanted attributes columns
         business data["open on weekends"] = business data.hours saturday.notnull() | busine
         ss_data.hours_sunday.notnull()
          f7 = (md_business_data.Column_Name.str.contains('^attributes_', regex = True)) | (m
          d business data.Column Name.str.contains('^hours ', regex = True))
         drop list = list(md business data[f7].Column Name)
         drop list.remove('attributes_happyhour')
         business data = business data.drop(columns = drop list)
         business data.info()
         <class 'pandas.core.frame.DataFrame'>
         RangeIndex: 188593 entries, 0 to 188592
         Data columns (total 15 columns):
                                 180970 non-null object
         attributes_happyhour 9285 non-null object business id 188593 non-null object
         business_id
         categories
                                 188052 non-null object
                                 188583 non-null object
         city
         is open
                                 188593 non-null int64
         latitude
                                 188587 non-null float64
                                 188587 non-null float64
         longitude
                               188593 non-null object
68655 non-null object
187912 non-null object
188593 non-null int64
         name
neighborhood
         review_count
                                  188593 non-null float64
         stars
         state
                                  188593 non-null object
         open on weekends 188593 non-null bool
         dtypes: bool(1), float64(3), int64(2), object(9)
         memory usage: 20.3+ MB
In [21]: # Create open on weekends
         business data = business data[['business id','name','address','neighborhood','city
```

','state','postal code','latitude','longitude','open on weekends','attributes happy

hour','review count','stars','categories','is open']]

```
In [22]: md_business_data = df_metadata(business_data)
    md_business_data
```

Out[22]:

	Column_Name	Column_Datatype	Row_Count	Null_Count	Null_Ratio_Pct
0	business_id	object	188593	0	0.00
1	name	object	188593	0	0.00
2	address	object	188593	7623	4.04
3	neighborhood	object	188593	119938	63.60
4	city	object	188593	10	0.01
5	state	object	188593	0	0.00
6	postal_code	object	188593	681	0.36
7	latitude	float64	188593	6	0.00
8	longitude	float64	188593	6	0.00
9	open_on_weekends	bool	188593	0	0.00
10	attributes_happyhour	object	188593	179308	95.08
11	review_count	int64	188593	0	0.00
12	stars	float64	188593	0	0.00
13	categories	object	188593	541	0.29
14	is_open	int64	188593	0	0.00

```
In [23]: # Remove hours.* columns
business_data.open_on_weekends.value_counts()
```

Out[23]: True 126044 False 62549

Name: open_on_weekends, dtype: int64

Problem 8: (5 points)

Create a Pandas Series containing the proportion of business in the data by state. (For now, a *state* refers to any level of the `state` variable, not only states in the U.S.A.)

```
In [24]: # Number of businesses by state
    state_business_prop = round(business_data.state.value_counts(normalize = True),2)
    state_business_prop
```

Out[24]:	AZ NV ON NC OH PA QC AB WI IL SC NYK NI IN OR BY ST CO C HE XGM NLK RP NY 01 CA VS NW O	0.30 0.19 0.17 0.08 0.07 0.06 0.05 0.04 0.03 0.01 0.00 0.00 0.00 0.00 0.00 0.00
	MO SG WA B AR AL G M CMA VT RCC MT HH LU 45 PO XMS GA NE KY CC SP CS TAM BC HU 4 MA V CRF AG WAR 10	0.00 0.00

```
11 0.00

VA 0.00

FL 0.00

MN 0.00

DE 0.00

WHT 0.00

Name: atota dtime: floated

In [25]: n = len(state_business_prop)

n
```

How many unique states are represented in the data? Are all of them in the United States of America? Do all of the levels of `state` make sense?

Written Answer:

'There are 69 states present in the data. Not all of them are in USA and they dont make sense. It requires cleansing.'

Problem 9: (5 points)

These data are fairly large! Let's focus on the data from a few key states. The goal in this exercise is to subset `business_data` to only contain businesses in the 5 states having the largest total number of businesses in the state. (Again, *state* does not need to correspond to a state in the U.S.A. but simply refers to a level of the `state` column.)

Tasks:

- 1. Extract the 5 states from state counts with the largest number of businesses
- 2. Subset <code>business_data</code> to only contain observations from these top-5 states

Out [27]:

	state_code	business_count
0	AZ	0.30
1	NV	0.19
2	ON	0.17
3	NC	0.08
4	ОН	0.07
5	PA	0.06
6	QC	0.05
7	AB	0.04
8	WI	0.03
9	IL	0.01

```
In [28]: state_count.sort_values(by = 'business_count', ascending = False)
         s1 = list(state count.head(5).state code)
         f9 = business_data.state.isin(s1)
         business_data_n5 = business_data[f9]
         business data = business data[f9]
In [29]: business_data.state.value_counts()
Out[29]: AZ
              56495
         NV
              35688
         ON
               32393
         NC
              14359
              13664
         OH
         Name: state, dtype: int64
```

Problem 10: (5 points)

Import the `territory_abbr.csv` data which contains a record for every U.S. state and territory. Use this data to **remove** businesses outside of the United States *by* performing an appropriate **merge** with `business data`. Assign the remaining data to a DataFrame called `business data subset`.

(Of course...you could probably figure out what state(s) need to be removed just by looking at them. The point is to demonstrate that you can use <code>merge()</code> and any necessary arguments to accomplish the task. Also...don't mess up your tidy data! Though not necessary for full credit, you may want to remove/modify columns that are not lowercase.)

```
In [30]: # Read in data
    us_data = pd.read_csv(fpath + '/data-sets/territory_abbr.csv')
In [31]: # Your code here
    f10 = business_data.state.isin(list(us_data.Abbreviation))
    business_data_subset = business_data[f10]
In [32]: business_data_subset.shape
Out[32]: (120206, 15)
```

How many unique U.S. states are left in the data?

```
In [33]: # Your code here
   n = business_data_subset.state.value_counts().count()
   f'There are 27 unique states left in business_data dataframe.'
Out[33]: 'There are 27 unique states left in business data dataframe.'
```

Task Set #2 - Analysis

Problem 11: (5 points)

Do businesses with more reviews tend to have higher ratings?

To help answer this question, use `business_data` to create *side-by-side notched boxplots* to visualize the relationship between the number of reviews left for the business (`review_count`, y-axis) and the rating of the business (`stars`, x-axis).

Note: use `ax.set_yscale('log')` to set the scale of the y-axis to be logarithmic due to extreme variation in the number of reviews left for the businesses. This means you must specify a figure and axes object using `fig, ax = plt.subplots(figsize=(10, 10))`

Make sure to use appropriate axes labels and include an appropriate title. Make the figure 10 units tall and 10 units wide.

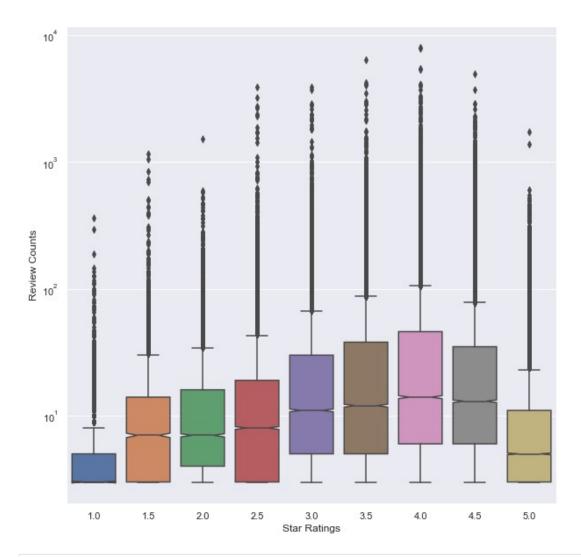
```
In [34]: # Answer
  #fig, (axes_l,axes_r) = plt.subplots(1, 2, figsize=(10, 10))
  fig, axes = plt.subplots(1, 1, figsize=(10, 10))
  fig.suptitle('Impact of Reviews on Higher Ratings.', fontsize = 16)

sns.boxplot(y = 'review_count', x = 'stars', ax = axes, data = business_data, notc
  h = True)

axes.set_xlabel('Star Ratings')
  axes.set_ylabel('Review Counts')
  axes.set_yscale('log')

#f'Between Conditions A and D, for Conditions D with higher than normal temps and r
  ains, even though leafe size was bigger significantly but the nicotine content did
  not grow proportionately. Between Conditions B and C, for Conditions C with higher
  than normal temps and lower rains, even though leafe size was bigger significantly
  but there were observations where nicotine content was same as in condition C.'
```

Impact of Reviews on Higher Ratings.



```
In [35]: f'Yes. Higher Number of reviews do seem to drive the star ratings. '
```

Out[35]: 'Yes. Higher Number of reviews do seem to drive the star ratings.'

Describe what you see in the plot and formulate a hypothesis about why the relationship between these variables looks the way it does.

Written Answer:

Its a cascading effect. When a restaurant is producing good food, it causes better reviews. Which pulls in more people giving high ratings based reviews and it goes on.

Problem 12: (5 points)

The `categories` column of `business_data_subset` contains a *comma separated* list of various keyword categories for each business. Use an appropriate Python data structure to iterate over every row of the data and determine all of the unique categories as well as the number of times each category appears, sorted from most common category to least common category.

Your result should look like the following:

Restaurants	
Shopping	173
Home Services	132
Food	120
Health & Medical	92

•

Gupta_Ashish_R64502_Final_Project

In [36]: business_data_subset.categories

Out[36]:	1	Chicken Wings, Burgers, Caterers, Street Vendo
	3	Insurance, Financial Services
	5	Coffee & Tea, Food
	8	Mexican, Restaurants
	12	Bars, Sports Bars, Dive Bars, Burgers, Nightli
	17	Shopping, Fashion, Department Stores
	18	Financial Services, Check Cashing/Pay-day Loan
	19	American (Traditional), Food, Bakeries, Restau
	20	Home Services, Masonry/Concrete, Professional
	21	Fast Food, Burgers, Restaurants
	22	Nightlife, Bars, American (Traditional), Sport
	24	Mexican, Restaurants
	26	Home Services, Home Automation, Security Systems
	29	Pizza, Restaurants
	32	Fast Food, Restaurants, Sandwiches
	33	Beer, Wine & Spirits, Italian, Food, American
	34	Health & Medical, Hair Salons, Skin Care, Hair
	35	Restaurants, Cafes
	36	Ice Cream & Frozen Yogurt, Food
	37	Seafood, Restaurants
	38	Health & Medical, Physical Therapy, Retirement
	39	Pizza, Fast Food, Restaurants
	40	Automotive, Auto Customization, Shopping, Auto
	44	Hair Salons, Beauty & Spas
	45	Flooring, Cabinetry, Refinishing Services, Hom
	47	Event Planning & Services, Soup, Salad, Mexica
	50	Thrift Stores, Shopping, Used, Vintage & Consi
	52	Motorcycle Rental, Active Life, Motorcycle Dea
	57	Restaurants, Pizza
	58	Home Services, Contractors
	59	Fast Food, Restaurants, Sandwiches, Food
	60	Health & Medical, Diagnostic Imaging, Diagnost
	61	Mexican, Restaurants
	63	Waxing, Nail Salons, Eyelash Service, Beauty &
	64	Health & Medical, Dentists, Cosmetic Dentists,
	65	Gas Stations, Car Wash, Automotive
	66	Shopping, Pawn Shops, Jewelry
	71	Churches, Religious Organizations
	72	Venues & Event Spaces, Wedding Chapels, Photog
	74	Waxing, Blow Dry/Out Services, Hair Salons, Ha
	75	Home & Garden, Shopping, Mattresses, Furniture
	76	Department Stores, Shopping, Fashion
	77	Shopping, Drugstores, Medical Supplies
	78	Urologists, Doctors, Health & Medical
	79 81	Fitness & Instruction, Gyms, Health & Medical, Shopping, Mattresses, Home & Garden, Furniture
	83	Bakeries, Food
	84	Beauty & Spas, Makeup Artists, Hair Salons, Ey
	85	Pets, Pet Groomers, Pet Services
	86	Shopping, Tobacco Shops, Vape Shops
	90	Pet Groomers, Pet Boarding, Pets, Veterinarian
	91	Nail Salons, Beauty & Spas
	98	Beauty & Spas, Nail Salons
	99	Financial Services, Banks & Credit Unions
	100	Auto Parts & Supplies, Automotive
	101	Beer, Wine & Spirits, Food
	102	Pet Groomers, Pets, Pet Services
	103	Periodontists, General Dentistry, Dentists, Or
	103	Food Delivery Services, Transportation, Food,
	105	Appliances & Repair, IT Services & Computer Re
	107	Fast Food, Restaurants
	108	Food, Restaurants, Italian, Bars, Wine Bars, D
	109	Chinese, Bars, Karaoke, Nightlife, Restaurants
		, , , , , , , , , , , , , , , , , , ,

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110	Restaurants, American (Traditional), Cocktail
113	Jewelry, Local Services, Watch Repair, Shoppin
114	Sports Bars, American (Traditional), Chicken W
116	Restaurants, Steakhouses, Nightlife, Burgers,
117	Oil Change Stations, Automotive
118	Door Sales/Installation, Home Services, Contra
	Massage Therapy, Physical Therapy, Health & Me
120	
121	Keys & Locksmiths, Home Services
122	Apartments, Home Services, Real Estate
124	Apartments, Real Estate, Home Services
125	Active Life, Bowling
128	Thrift Stores, Shopping
130	Spray Tanning, Tanning Beds, Tanning, Beauty &
132	Italian, Restaurants
133	Landscaping, Home Services, Contractors
135	Active Life, Arts & Entertainment, Horse Racin
136	Event Planning & Services, Caterers
138	Discount Store, Wholesale Stores, Shopping, Ou
139	Doctors, Orthopedists, Health & Medical
140	Karaoke, Country Dance Halls, Bars, Nightlife,
141	Chicken Wings, Restaurants, Fast Food
142	Restaurants, American (New)
143	Restaurants, Pizza
144	Event Planning & Services, Hotels, Hotels & Tr
145	Japanese, Restaurants
147	DUI Law, Professional Services, Lawyers, Divor
149	Endodontists, Health & Medical, Pediatric Dent
151	
	Arts & Entertainment, Museums
152	Seafood, Fish & Chips, Restaurants, Fast Food
154	Auto Repair, Automotive, Transmission Repair
156	Auto Customization, Automotive, Furniture Reup
157	Flowers & Gifts, Florists, Shopping
160	Tobacco Shops, Vape Shops, Personal Shopping,
161	Party & Event Planning, Event Planning & Servi
163	Auto Repair, Auto Parts & Supplies, Oil Change
165	Doctors, Eyebrow Services, Tattoo Removal, Bea
166	Delis, Restaurants, Sandwiches
167	Local Services, Printing Services, Notaries, M
169	Obstetricians & Gynecologists, Health & Medica
170	Food, Grocery
171	Health & Medical, Physical Therapy
172	Appliances & Repair, Local Services
173	Arts & Entertainment, Stadiums & Arenas
174	Restaurants, Sandwiches, Fast Food
175	Transportation, Limos, Hotels & Travel
176	Auto Repair, Automotive
177	Restaurants, Hot Dogs
180	Mexican, Restaurants
181	Fashion, Women's Clothing, Shopping
182	Hotels & Travel, Resorts
185	Bars, Nightlife, Lounges, Dance Clubs
186	Hair Salons, Hair Stylists, Beauty & Spas, Mak
187	American (Traditional), Comfort Food, Barbeque
195	
197	Real Estate, Home Staging, Interior Design, Es
	Restaurants, Salad, Fast Food, Mexican
199	Restaurants, Seafood
200	Carpet Cleaning, Home Services, Local Services
203	Southern, Chicken Wings, Fast Food, American (
204	Arts & Entertainment, Local Flavor, Festivals
205	Oil Change Stations, Tires, Auto Parts & Suppl
208	Gardeners, Home Services, Landscape Architects
209	Dentists, General Dentistry, Health & Medical,
213	Pets, Dog Walkers, Pet Sitting, Pet Services
216	Active Life, Fitness & Instruction, Gyms, Inte

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Car Wash, Delis, Convenience Stores, Fo Active Life, Weight Loss Centers, Gyms, Active Psychologists, Counseling & Mental Heal Home Services, Heating & Air Conditi Restaura Real Estate, Apartments, Hom Restauran Mexican, R Hair Stylists, Hair Removal, Beauty & S Dentists, General Dentistry, Periodonti Food, Co Mexican, Breakfast & Brunch, Sandwiches Diagnostic Services, Health Restaurants, Food, Bakeries, Desserts, Beauty & Spas, Hair Salons, Restaurants, Bars, Nightlife, Caterers, Doctors, Retina Specialists, Ophthalmol Home Services, Carpet Cleaning, Loca Accessories, Fashion, Baby Gear & Furni Weterinar Beauty & Spas, H Emergency Rooms, Urgent Care, Health & Automotive, Oil Change Stations, Smog C	
Active Psychologists, Counseling & Mental Heal Home Services, Heating & Air Conditi Restaura Real Estate, Apartments, Hom Restauran Mexican, R Hair Stylists, Hair Removal, Beauty & S Dentists, General Dentistry, Periodonti Food, Co Mexican, Breakfast & Brunch, Sandwiches Diagnostic Services, Health Restaurants, Food, Bakeries, Desserts, Beauty & Spa Beauty & Spas, Hair Salons, Neurologist, Spine Surgeons, Cosmetic S Restaurants, Bars, Nightlife, Caterers, Doctors, Retina Specialists, Ophthalmol Home Services, Carpet Cleaning, Loca Accessories, Fashion, Baby Gear & Furni Weterinar Beauty & Spas, H Emergency Rooms, Urgent Care, Health & Automotive, Oil Change Stations, Smog C	
Psychologists, Counseling & Mental Heal Home Services, Heating & Air Conditi Restaura Real Estate, Apartments, Hom Restauran Real Estate, Apartments, Hom Restauran Mexican, R Hair Stylists, Hair Removal, Beauty & S Dentists, General Dentistry, Periodonti Food, Co Mexican, Breakfast & Brunch, Sandwiches Diagnostic Services, Health Restaurants, Food, Bakeries, Desserts, Beauty & Spas, Hair Salons, Restaurants, Bars, Nightlife, Caterers, Doctors, Retina Specialists, Ophthalmol Home Services, Carpet Cleaning, Loca Accessories, Fashion, Baby Gear & Furni Weterinar Beauty & Spas, H Emergency Rooms, Urgent Care, Health & Automotive, Oil Change Stations, Smog C	ght Loss Centers, Gyms, Health
Home Services, Heating & Air Conditi Restaura Real Estate, Apartments, Hom Restauran Restauran Mexican, R Restauran Restauran Mexican, R Restauran	Active Life, Golf
Restaura Real Estate, Apartments, Hom Restauran Restaura	ounseling & Mental Health, Nat
Real Estate, Apartments, Hom Restauran Restauran Mexican, R Radican, R Restauran Restaurants, General Dentistry, Periodonti Food, Co Restauran Restaurant, Breakfast & Brunch, Sandwiches Restaurants, Food, Bakeries, Desserts, Restaurants, Food, Bakeries, Desserts, Restaurants, Spine Surgeons, Cosmetic S Restaurants, Bars, Nightlife, Caterers, Restaurants, Bars, Nightlife, Caterers, Carpet Cleaning, Loca Rocessories, Fashion, Baby Gear & Furni Restauran	
Restauran Mexican, R Mexican, R R Dentists, General Dentistry, Periodonti Food, Co Mexican, Breakfast & Brunch, Sandwiches Diagnostic Services, Health Restaurants, Food, Bakeries, Desserts, Beauty & Spa Beauty & Spas, Hair Salons, Neurologist, Spine Surgeons, Cosmetic S Restaurants, Bars, Nightlife, Caterers, Doctors, Retina Specialists, Ophthalmol Home Services, Carpet Cleaning, Loca Accessories, Fashion, Baby Gear & Furni Veterinar Beauty & Spas, H Beauty & Spas, H Beauty & Spas, H Caterinar Restaurants Beauty & Spas, H Caterinar Restaurants, Bars, Nightlife, Caterers, Doctors, Retina Specialists, Ophthalmol Home Services, Carpet Cleaning, Loca Accessories, Fashion, Baby Gear & Furni Restaurants, Bars, Vigent Care, Health & Spas, H Caterinar Restaurants, Bars, Nightlife, Caterers, Doctors, Retina Specialists, Ophthalmol	Restaurants, Pizza
Mexican, R 303 Hair Stylists, Hair Removal, Beauty & S 306 Dentists, General Dentistry, Periodonti 307 Food, Co 311 Mexican, Breakfast & Brunch, Sandwiches 313 Diagnostic Services, Health 317 Restaurants, Food, Bakeries, Desserts, 318 Beauty & Spa 323 Beauty & Spas, Hair Salons, 324 Neurologist, Spine Surgeons, Cosmetic S 325 Restaurants, Bars, Nightlife, Caterers, 326 Doctors, Retina Specialists, Ophthalmol 327 Home Services, Carpet Cleaning, Loca 330 Accessories, Fashion, Baby Gear & Furni 334 Veterinar 335 Beauty & Spas, H 336 Emergency Rooms, Urgent Care, Health & S 337 Automotive, Oil Change Stations, Smog C	Estate, Apartments, Home Services
Hair Stylists, Hair Removal, Beauty & S Dentists, General Dentistry, Periodonti Food, Co Mexican, Breakfast & Brunch, Sandwiches Diagnostic Services, Health Restaurants, Food, Bakeries, Desserts, Beauty & Spa Beauty & Spas, Hair Salons, Neurologist, Spine Surgeons, Cosmetic S Restaurants, Bars, Nightlife, Caterers, Doctors, Retina Specialists, Ophthalmol Home Services, Carpet Cleaning, Loca Accessories, Fashion, Baby Gear & Furni Veterinar Beauty & Spas, H Beauty & Spas, H Beauty & Spas, H Cemergency Rooms, Urgent Care, Health & Automotive, Oil Change Stations, Smog C	Restaurants, Indian
Dentists, General Dentistry, Periodonti Food, Co Mexican, Breakfast & Brunch, Sandwiches Diagnostic Services, Health Restaurants, Food, Bakeries, Desserts, Beauty & Spa Beauty & Spas, Hair Salons, Neurologist, Spine Surgeons, Cosmetic S Restaurants, Bars, Nightlife, Caterers, Doctors, Retina Specialists, Ophthalmol Home Services, Carpet Cleaning, Loca Accessories, Fashion, Baby Gear & Furni Veterinar Beauty & Spas, H Beauty & Spas, H Beauty & Spas, H Cemergency Rooms, Urgent Care, Health & Automotive, Oil Change Stations, Smog C	Mexican, Restaurants
Food, Co Mexican, Breakfast & Brunch, Sandwiches Diagnostic Services, Health Restaurants, Food, Bakeries, Desserts, Beauty & Spa Beauty & Spas, Hair Salons, Neurologist, Spine Surgeons, Cosmetic S Restaurants, Bars, Nightlife, Caterers, Doctors, Retina Specialists, Ophthalmol Home Services, Carpet Cleaning, Loca Accessories, Fashion, Baby Gear & Furni Veterinar Beauty & Spas, H Emergency Rooms, Urgent Care, Health & Automotive, Oil Change Stations, Smog C	
Mexican, Breakfast & Brunch, Sandwiches Diagnostic Services, Health Restaurants, Food, Bakeries, Desserts, Beauty & Spa Beauty & Spas, Hair Salons, Neurologist, Spine Surgeons, Cosmetic S Restaurants, Bars, Nightlife, Caterers, Doctors, Retina Specialists, Ophthalmol Home Services, Carpet Cleaning, Loca Accessories, Fashion, Baby Gear & Furni Veterinar Beauty & Spas, H Emergency Rooms, Urgent Care, Health & Automotive, Oil Change Stations, Smog C	
Diagnostic Services, Health Restaurants, Food, Bakeries, Desserts, Beauty & Spa Beauty & Spas, Hair Salons, Neurologist, Spine Surgeons, Cosmetic S Restaurants, Bars, Nightlife, Caterers, Doctors, Retina Specialists, Ophthalmol Home Services, Carpet Cleaning, Loca Accessories, Fashion, Baby Gear & Furni Veterinar Beauty & Spas, H Emergency Rooms, Urgent Care, Health & Automotive, Oil Change Stations, Smog C	Food, Coffee & Tea
Restaurants, Food, Bakeries, Desserts, Beauty & Spa Beauty & Spas, Hair Salons, Neurologist, Spine Surgeons, Cosmetic S Restaurants, Bars, Nightlife, Caterers, Doctors, Retina Specialists, Ophthalmol Home Services, Carpet Cleaning, Loca Accessories, Fashion, Baby Gear & Furni Veterinar Beauty & Spas, H Emergency Rooms, Urgent Care, Health & Automotive, Oil Change Stations, Smog C	
Beauty & Spa Beauty & Spas, Hair Salons, Neurologist, Spine Surgeons, Cosmetic S Restaurants, Bars, Nightlife, Caterers, Doctors, Retina Specialists, Ophthalmol Home Services, Carpet Cleaning, Loca Accessories, Fashion, Baby Gear & Furni Veterinar Beauty & Spas, H Emergency Rooms, Urgent Care, Health & Automotive, Oil Change Stations, Smog C	
Beauty & Spas, Hair Salons, Neurologist, Spine Surgeons, Cosmetic S Restaurants, Bars, Nightlife, Caterers, Doctors, Retina Specialists, Ophthalmol Home Services, Carpet Cleaning, Loca Accessories, Fashion, Baby Gear & Furni Veterinar Beauty & Spas, H Emergency Rooms, Urgent Care, Health & Automotive, Oil Change Stations, Smog C	
Neurologist, Spine Surgeons, Cosmetic S Restaurants, Bars, Nightlife, Caterers, Doctors, Retina Specialists, Ophthalmol Home Services, Carpet Cleaning, Loca Accessories, Fashion, Baby Gear & Furni Veterinar Beauty & Spas, H Beauty & Spas, H Automotive, Oil Change Stations, Smog C	Beauty & Spas, Barbers
Restaurants, Bars, Nightlife, Caterers, Doctors, Retina Specialists, Ophthalmol Home Services, Carpet Cleaning, Loca Accessories, Fashion, Baby Gear & Furni Veterinar Beauty & Spas, H Emergency Rooms, Urgent Care, Health & Automotive, Oil Change Stations, Smog C	
Doctors, Retina Specialists, Ophthalmol Home Services, Carpet Cleaning, Loca Accessories, Fashion, Baby Gear & Furni Veterinar Beauty & Spas, H Emergency Rooms, Urgent Care, Health & Automotive, Oil Change Stations, Smog C	
Home Services, Carpet Cleaning, Loca Accessories, Fashion, Baby Gear & Furni Veterinar Beauty & Spas, H Emergency Rooms, Urgent Care, Health & Automotive, Oil Change Stations, Smog C	
Accessories, Fashion, Baby Gear & Furni Veterinar Beauty & Spas, H Emergency Rooms, Urgent Care, Health & Automotive, Oil Change Stations, Smog C	
Veterinar Beauty & Spas, H Emergency Rooms, Urgent Care, Health & Automotive, Oil Change Stations, Smog C	
Beauty & Spas, H 336 Emergency Rooms, Urgent Care, Health & S 337 Automotive, Oil Change Stations, Smog C	Veterinarians, Pets
Emergency Rooms, Urgent Care, Health & : Automotive, Oil Change Stations, Smog C	Beauty & Spas, Hair Salons
Automotive, Oil Change Stations, Smog C	
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341 Pet Stores, Pet Services, Pets	res, Pet Services, Pets, Shopping
343 Local Services, Office Cleaning, Home O	
Party Bus Rentals, Event Planning	
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348	Italian, Restaurants
349	Sandwiches, Salad, Restaurants, Food, Juice Ba
354	Home Services, Apartments, Real Estate
357	Steakhouses, Event Planning & Services, Food,
360	Fast Food, Restaurants, Sandwiches, American (
361	Coffee & Tea, Food
363	Hotels & Travel, Active Life, Private Tutors,
365	Health & Medical, Neurologist, Doctors
366	Public Services & Government, Departments of M
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367	Health & Medical, Obstetricians & Gynecologist
368	Gluten-Free, Restaurants, Vegan, American (New)
376	Hair Salons, Beauty & Spas, Cosmetics & Beauty
377	Event Planning & Services, Arcades, Nightlife,
378	Coffee & Tea, Food
379	Shopping, Arts & Crafts, Fabric Stores
380	Fashion, Department Stores, Automotive, Shoppi
381	Arts & Entertainment, Coffee & Tea, Bars, Food
382	Customized Merchandise, Shopping, Coffee Roast
383	Shopping, Jewelry
385	Nail Salons, Beauty & Spas
387	Health & Medical, Active Life, Vitamins & Supp
391	
	Pizza, Sandwiches, Restaurants, Chicken Wings
392	Auto Detailing, Automotive, Car Wash, Oil Chan
393	Home & Garden, Home Decor, Shopping, Kitchen &
395	Gyms, Active Life, Fitness & Instruction, Boxi
396	Pets, Pet Stores, Pet Groomers, Pet Services,
397	Lounges, Nightlife, Bars
398	Pet Boarding, Pet Sitting, Pets, Pet Services,
399	Casinos, Arts & Entertainment
400	Festivals, Arts & Entertainment, Food
402	Hair Salons, Beauty & Spas
403	Food, Desserts, Burgers, Restaurants, Ice Crea
404	Professional Services
406	Restaurants, Pizza
407	·
	Sandwiches, Fast Food, Restaurants
408	Shopping, Men's Clothing, Women's Clothing, Fa
409	Doctors, Obstetricians & Gynecologists, Health
410	Steakhouses, American (Traditional), Barbeque,
411	Arts & Entertainment, Shopping, Art Galleries
413	Karaoke, Hotels, Nightlife, Party Equipment Re
414	Chiropractors, Health & Medical, Physical Ther
416	
	Local Services, Appliances & Repair
417	Oil Change Stations, Windshield Installation &
420	Home Cleaning, Home Services, Home Organizatio
421	Beauty & Spas, Eyelash Service, Waxing, Nail S
423	Professional Services
425	Women's Clothing, Fashion, Shopping
426	Italian, Pizza, Restaurants
427	Shopping, Fashion, Accessories, Women's Clothing
428	Doctors, Ophthalmologists, Eyewear & Opticians
429	Eyewear & Opticians, Health & Medical, Optomet
430	Adult, Shopping, Lingerie, Fashion
434	Hotels & Travel, Asian Fusion, Day Spas, Casin
437	Dentists, Periodontists, Cosmetic Dentists, Pr
	Packing Services, Movers, Home Services
440	
441	Burgers, Fast Food, Sandwiches, Restaurants
445	Shopping, Jewelry
446	Men's Hair Salons, Barbers, Beauty & Spas, Hai
450	Women's Clothing, Children's Clothing, Shoppin
188229	Nutritionists, Massage, Health & Medical, Yoga
188230	Automotive, Auto Repair, Car Dealers
188231	Shopping, Furniture Stores, Used, Vintage & Co
188232	Internet Service Providers, Home Services, Pro

188233	Skin Care, Beauty & Spas, Makeup Artists
188235	Periodontists, Dentists, Health & Medical
188238	Shopping, Antiques, Thrift Stores, Pawn Shops
188239	Pet Sitting, Pet Transportation, Pets, Pet Ser
188240	Accessories, Women's Clothing, Shopping, Jewel
188241	Towing, Automotive
	_
188242	Food, Coffee & Tea
188243	Chinese, Asian Fusion, Cantonese, Bars, Restau
188247	Restaurants, Sandwiches, Fast Food
188248	Beauty & Spas, Waxing, Nail Salons, Hair Removal
188249	Bars, Burgers, Restaurants, Nightlife, Sports
188250	Apartments, Real Estate, Home Services
188251	Home Services, Real Estate, Mortgage Brokers
188252	Dry Cleaning & Laundry, Dry Cleaning, Local Se
188253	Health & Medical, Doctors, Pediatricians
188254	Vegan, Burgers, Vegetarian, Sandwiches, Restau
188255	Pizza, Bars, Nightlife, Restaurants, Sports Bars
188257	Mobile Phone Repair, Office Equipment, Printin
188258	Fast Food, Mexican, Tex-Mex, Restaurants
188260	Local Services, Data Recovery, IT Services & C
188262	Bakeries, Candy Stores, Food, Specialty Food,
188263	Food, Beer, Wine & Spirits, Restaurants, Thai,
188264	Restaurants, Hot Dogs
188265	Automotive, Tires, Auto Glass Services, Auto C
188266	Local Services, Auto Customization, Automotive
188267	Professional Services
188268	Automotive, Auto Repair, Car Dealers
188269	Beauty & Spas, Shopping, Cosmetics & Beauty Su
188273	Automotive, Car Dealers, Transportation, Hotel
188276	Damage Restoration, Home Services, Contractors
188277	Local Services, Financial Services, Profession
188278	Restaurants, Bars, Beer Bar, Vietnamese, Night
188279	Home Services, Plumbing
188281	Home Cleaning, Home Services, Office Cleaning,
188282	Local Services, Shipping Centers, Mailbox Cent
188287	Medical Centers, Health & Medical
188289	Casinos, Bingo Halls, Arts & Entertainment
188290	Health & Medical, Bike Rentals, Motorcycle Ren
188291	Hotels & Travel, Tours
188293	Food, Coffee & Tea
188295	Packing Services, Self Storage, Movers, Local
188296	Food, Ethnic Food, Imported Food, Japanese, Re
188299	Banks & Credit Unions, Financial Services
188300	Session Photography, Event Planning & Services
188302	Food, Nightlife, Breakfast & Brunch, Juice Bar
188303	Real Estate, Mortgage Brokers, Banks & Credit
188305	Shopping, Women's Clothing, Fashion
188306	Laundry Services, Local Services, Dry Cleaning
188307	Massage, Beauty & Spas
188309	Burgers, American (Traditional), Restaurants
188310	Cocktail Bars, Bars, American (Traditional), N
188312	Fast Food, Restaurants, Mexican, Tacos
188314	Tiling, Carpeting, Flooring, Home Services
188315	Pizza, Restaurants
188317	Bars, Nightlife, Cocktail Bars
188318	Pretzels, Food
188319	Hotels & Travel, Lounges, Restaurants, Steakho
188322	Beauty & Spas, Nail Salons
188323	Pets, Veterinarians
188324	Event Planning & Services, Caterers, Food Truc
188325	Beauty & Spas, Waxing, Nail Salons, Skin Care,
188327	Event Planning & Services, Venues & Event Spac
188328	Health & Medical, Occupational Therapy, Speech
188329	Automotive, Auto Repair

188330	Local Services, Pest Control, Home Services, L
188331	Car Wash, Automotive, Auto Detailing
188334	Seafood, Cheesesteaks, Delis, Restaurants, San
188335	Auto Repair, Automotive
188336	Buses, Party Bus Rentals, Hotels & Travel, Tra
188337	Real Estate, Home Services, Apartments
188338	Fashion, Women's Clothing, Shopping, Jewelry,
188340	Health & Medical, Dentists, General Dentistry
188342	Real Estate, Home Services, Apartments
188344	Tapas Bars, Nightlife, Bars, Cocktail Bars, Re
188345	Men's Clothing, Shopping, Fashion
188346	American (Traditional), Burgers, Sandwiches, R
188347	Haunted Houses, Arts & Entertainment
188349	Japanese, Restaurants
188350	Heating & Air Conditioning/HVAC, Home Services
188351	Fast Food, Sandwiches, Restaurants
188352	Home Services, Real Estate, Apartments
188353	Session Photography, Party Equipment Rentals,
188355	Party & Event Planning, Event Planning & Servi
188356	Restaurants, Salvadoran, Latin American
188357	Office Cleaning, Professional Services, Home C
188358	Southern, Restaurants, Barbeque
188359	Salad, Nightlife, Italian, Restaurants, Bars,
188360	Greek, American (New), Modern European, Restau
188361	Restaurants, Pizza
188364	Tanning, Active Life, Beauty & Spas, Trainers,
188365	Auto Repair, Automotive
188366	Fashion, Shopping, Women's Clothing
188367	Coffee & Tea, Food
188372	Restaurants, Pizza
188374	Doctors, Health & Medical
188375	Health & Medical, Doctors, Family Practice
188377	Massage, Skin Care, Day Spas, Hair Removal, Wa
188378	Bankruptcy Law, DUI Law, General Litigation, C
188380	American (Traditional), Restaurants
188382	Nightlife, Restaurants, American (Traditional)
188383	Beauty & Spas, Barbers
188384	Optometrists, Health & Medical, Medical Center
188385	Photographers, Event Planning & Services, Even
188386	Restaurants, Peruvian
188387	Women's Clothing, Fashion, Men's Clothing, Acc
188388	Shopping, Tobacco Shops, Head Shops, Food, Bee
188389	Real Estate, Home Services, Apartments
188390	Event Planning & Services, Costumes, Shopping,
188391	Solar Installation, Home Services, Water Heate
188392	Home Services, Real Estate Services, Real Esta
188393	Pediatric Dentists, Oral Surgeons, Cosmetic De
188398	Divorce & Family Law, Criminal Defense Law, La
188399	Jewelry Repair, Jewelry, Local Services, Gold
188400	Beauty & Spas, Hair Salons
188401	Shopping, Eyewear & Opticians
188403	Automotive, Auto Repair
188404	Shopping, Home & Garden, Florists, Flowers & G
188405	Shopping, Jewelry, Watch Repair, Local Service
188406	Fast Food, Restaurants
188407	Restaurants, Greek
188409	Transmission Repair, Automotive
188412	Pet Groomers, Pets, Pet Services
188413	Apartments, Home Services, Real Estate
188415	Fashion, Shoe Stores, Shopping
188416	Doctors, Obstetricians & Gynecologists, Health
188417	Restaurants, Fast Food
188418	Salvadoran, Food, Mexican, Burgers, Latin Amer
188420	Restaurants, Mexican
100120	Researcantes, Mexican

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188422
          Home Decor, Home Services, Appliances, Glass &...
188423
          Cosmetics & Beauty Supply, Shopping, Makeup Ar...
188425
                       Car Dealers, Auto Repair, Automotive
188426
                     Door Sales/Installation, Home Services
188428
         Dentists, Pediatric Dentists, Oral Surgeons, H...
188429
                               Pest Control, Local Services
188430
         Event Photography, Photographers, Session Phot...
188431
         Sporting Goods, Home Services, Movers, Pool & ...
188434
         Cosmetics & Beauty Supply, Nail Salons, Hair E...
188436
          TV Mounting, Local Services, Foundation Repair...
188438
                  Hair Salons, Beauty & Spas, Hair Stylists
188439
                     Pakistani, Indian, Afghan, Restaurants
188440
          Local Services, Home Services, IT Services & C...
188441
                          Lounges, Nightlife, Karaoke, Bars
188442
             Home Services, Heating & Air Conditioning/HVAC
188443
         Nail Salons, Hair Removal, Waxing, Beauty & Sp...
188445
          Bakeries, Food, Restaurants, Fast Food, Pretzels
188446
             Shoe Stores, Men's Clothing, Fashion, Shopping
          Beer, Wine & Spirits, Bars, Seafood, Restauran...
188447
          Steakhouses, Seafood, Nightlife, American (New...
188448
188449
                                         Antiques, Shopping
188450
          Juice Bars & Smoothies, Bubble Tea, Coffee & T...
188451
                                 Hair Salons, Beauty & Spas
188452
         American (New), Diners, Breakfast & Brunch, Bu...
                       Mexican, Seafood, Restaurants, Salad
188453
188454
         Cosmetic Surgeons, Plastic Surgeons, Health & ...
188455
          Family Practice, Doctors, Health & Medical, In...
188456
                                               Bagels, Food
188458
                    Hair Salons, Nail Salons, Beauty & Spas
188461
           Restaurants, Fast Food, American (New), Chinese
         Self Storage, Movers, Local Services, Packing ...
188462
188463
         Real Estate, Commercial Real Estate, Home Serv...
188464
         Makeup Artists, Skin Care, Waxing, Hair Salons...
188465
            Home Services, Heating & Air Conditioning/HVAC
188466
                                      Tattoo, Beauty & Spas
                                Pizza, Restaurants, Italian
188467
188469
                               Self Storage, Local Services
188470
         Cinema, Event Planning & Services, Restaurants...
188471
                                       Italian, Restaurants
188472
         Yoga, Fitness & Instruction, Pilates, Boot Cam...
         Active Life, Food, Playgrounds, Fitness & Inst...
188473
188475
         Health & Medical, Medical Spas, Beauty & Spas,...
         Automotive, Auto Repair, Oil Change Stations, ...
188476
188477
                   Fitness & Instruction, Yoga, Active Life
         Electronics, Mobile Phones, Local Services, Sh...
188478
188479
          Transmission Repair, Automotive, Auto Repair, ...
188480
          Gas Stations, Food, Convenience Stores, Automo...
188482
                                        Pets, Veterinarians
188487
                                 Hair Salons, Beauty & Spas
          Casinos, Steakhouses, Bars, Nightlife, Restaur...
188488
188489
          Shopping, Home Decor, Home Services, Home & Ga...
188490
          Appliances & Repair, Local Services, Fireplace...
188491
                                       Restaurants, Chinese
188492
                                             Desserts, Food
188494
                     Real Estate, Apartments, Home Services
188495
                             Auto Repair, Automotive, Tires
188496
         Delis, Appliances, Pasta Shops, Grocery, Soup, ...
188497
                                          Restaurants, Thai
         Hair Removal, Nail Technicians, Massage, Nail ...
188498
188499
              Home & Garden, Golf Equipment Shops, Shopping
          Costumes, Fabric Stores, Bridal, Shopping, Art...
188500
188502
         Arts & Entertainment, Shopping, Adult Educatio...
188503
                                      Shopping, Electronics
188504
                          Sushi Bars, Restaurants, Japanese
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188506	Greek, Restaurants, Diners, Southern, Desserts
188507	Event Planning & Services, Swimming Pools, Hot
188510	Food, Juice Bars & Smoothies
188511	Sushi Bars, Restaurants, Mexicar
188512	Local Services, Home Services, Farming Equipme
188513	Nightlife
188514	Dance Clubs, Chicken Wings, Bars, Sports Bars,
188515	Shopping, Drugstores
188516	Dentists, General Dentistry, Cosmetic Dentists
188518	Restaurants, Fast Food, Sandwiches
188519	Restaurants, Mexicar
188520	Sandwiches, Fast Food, Restaurants
188521	Local Services, Self Storage
188522	Local Services, Farmers Market, Food, Health M
188524	Health & Medical, Family Practice, Doctors
188525	Fashion, Men's Clothing, Shopping, Personal Sh
188533	Car Dealers, Automotive, Used Car Dealers, Car
188534	Beauty & Spas, Hair Salons, Barbers
188539	Home Services, Property Management, Real Estat
188541	Motorcycle Repair, Local Services, Automotive,
188543	Mediterranean, Turkish, Restaurants, Kebab, Greek
188546	Automotive, Car Wash
188547	Food, Donuts
188548	Home Services, IT Services & Computer Repair,
188550	Session Photography, Event Photography, Arts &
188552	Real Estate, Mortgage Brokers, Auto Loan Provi
188553	Cycling Classes, Fitness & Instruction, Active
188554	Hair Salons, Men's Hair Salons, Beauty & Spas,
188555	Special Education, Vocational & Technical Scho
188556	Pet Sitting, Pet Stores, Pet Groomers, Pet Ser
188557	Arts & Entertainment, Tattoo, Beauty & Spas
188560	Restaurants, Italian
188561	Shopping, Flowers & Gifts, Florists
188562	Beauty & Spas, Tanning
188564	Nail Salons, Beauty & Spas
188566	Eyewear & Opticians, Leather Goods, Shopping,
188567	Delis, Restaurants, American (Traditional)
188568	Self Storage, Local Services
188569	Hair Stylists, Hair Extensions, Hair Salons, B
188570	Nightlife, Bars, Shopping, Tobacco Shops, Cock
188572	Beer Bar, Cocktail Bars, Nightlife, Bars
188573	Performing Arts, Arts & Entertainment
188574	Active Life, Arts & Entertainment, Nightlife,
188577	American (Traditional), American (New), Restau
188578	Hair Removal, Eyebrow Services, Beauty & Spas,
188579	Banks & Credit Unions, Financial Services, Rea
188580	Kitchen & Bath, Building Supplies, Home Servic
188581	Pet Groomers, Pets, Veterinarians, Pet Sitting
188582	Automotive, Body Shops, Auto Repair, Oil Chang
188583	Beauty & Spas, Nail Salons, Active Life, Gyms,
188584	Beauty & Spas, Nail Salons, Hair Removal, Waxi
188590	Mobile Phones, Shopping, Department Stores, Fo

```
In [37]: # Your code here
    category_list = list()
    business_data_subset.categories.astype('str')

for val in business_data_subset.categories.str.split(','):
    for cat_val in val:
        cat_val = cat_val.strip()
        print(cat_val)
        category_list.append(cat_val)
```

Chicken Wings

Burgers

Caterers

Street Vendors

Barbeque

Food Trucks

Food

Restaurants

Event Planning & Services

Insurance

Financial Services

Coffee & Tea

Food

Mexican

Restaurants

Bars

Sports Bars

Dive Bars

Burgers

Nightlife

Sandwiches

Restaurants

Shopping

Fashion

Department Stores

Financial Services

Check Cashing/Pay-day Loans

Title Loans

American (Traditional)

Food

Bakeries

Restaurants

Home Services

Masonry/Concrete

Professional Services

Contractors

Fast Food

Burgers

Restaurants

Nightlife

Bars

American (Traditional)

Sports Bars

Restaurants

Mexican

Restaurants

Home Services

Home Automation

Security Systems

Pizza

Restaurants

Fast Food

Restaurants

Sandwiches

Beer

Wine & Spirits

Italian

Food

American (Traditional)

Breakfast & Brunch

Restaurants

Health & Medical

Hair Salons

Skin Care

Hair Extensions

Medical Spas

Cryotherapy

Beauty & Spas

Restaurants

Cafes

Ice Cream & Frozen Yogurt

Food

Seafood

Restaurants

Health & Medical

Physical Therapy

Retirement Homes

Pizza

Fast Food

Restaurants

Automotive

Auto Customization

Shopping

Auto Security

Car Stereo Installation

Electronics

Hair Salons

Beauty & Spas

Flooring

Cabinetry

Refinishing Services

Home Services

Masonry/Concrete

Tiling

Plumbing

Contractors

Event Planning & Services

Soup

Salad

Mexican

Caterers

Restaurants

Thrift Stores

Shopping

Used

Vintage & Consignment

Antiques

Fashion

Auction Houses

Motorcycle Rental

Active Life

Motorcycle Dealers

Scooter Rentals

Automotive

Scooter Tours

Bike Rentals

Car Rental

Tours

Hotels & Travel

Truck Rental

ATV Rentals/Tours

Restaurants

Pizza

Home Services

Contractors

Fast Food

Restaurants

Sandwiches

Food

Health & Medical

Diagnostic Imaging

Diagnostic Services

Arts & Entertainment

Mexican

Restaurants

Waxing

Nail Salons

Eyelash Service

Beauty & Spas

Hair Removal

Health & Medical

Dentists

Cosmetic Dentists

General Dentistry

Gas Stations

Car Wash

Automotive

Shopping

Pawn Shops

Jewelry

Churches

Religious Organizations

Venues & Event Spaces

Wedding Chapels

Photographers

Event Planning & Services

Waxing

Blow Dry/Out Services

Hair Salons

Hair Stylists

Day Spas

Massage

Hair Removal

Beauty & Spas

Home & Garden

Shopping

 ${\tt Mattresses}$

Furniture Stores

Department Stores

Shopping

Fashion

Shopping

Drugstores

Medical Supplies

Urologists

Doctors

Health & Medical

Fitness & Instruction

Gyms

Health & Medical

Active Life

Weight Loss Centers

Trainers

Shopping

Mattresses

Home & Garden

Furniture Stores

Bakeries

Food

Beauty & Spas

Makeup Artists

Hair Salons

Eyelash Service

Hair Stylists

Pets

Pet Groomers

Pet Services

Shopping

Tobacco Shops

Vape Shops

Pet Groomers

Pet Boarding

Pets

Veterinarians

Pet Stores

Pet Sitting

Pet Services

Nail Salons

Beauty & Spas

Beauty & Spas

Nail Salons

Financial Services

Banks & Credit Unions

Auto Parts & Supplies

Automotive

Beer

Wine & Spirits

Food

Pet Groomers

Pets

Pet Services

Periodontists

General Dentistry

Dentists

Orthodontists

Health & Medical

Food Delivery Services

Transportation

Food

Taxis

Hotels & Travel

Appliances & Repair

IT Services & Computer Repair

Mobile Phone Repair

Local Services

Electronics Repair

Professional Services

Fast Food

Restaurants

Food

Restaurants

Italian

Bars

Wine Bars

Desserts

Nightlife

Chinese

Bars

Karaoke

Nightlife

Restaurants

Restaurants

American (Traditional)

Cocktail Bars

Nightlife

Bars

Jewelry

Local Services

Watch Repair

Shopping

Watches

Sports Bars

American (Traditional)

Chicken Wings

Restaurants

Nightlife

Bars

Restaurants

Steakhouses

Nightlife

Burgers

American (Traditional)

Sports Bars

Bars

Oil Change Stations

Automotive

Door Sales/Installation

Home Services

Contractors

Glass & Mirrors

Massage Therapy

Physical Therapy

Health & Medical

Keys & Locksmiths

Home Services

7.....

Apartments

Home Services

Real Estate

Apartments

Real Estate

Home Services

Active Life

Bowling

Thrift Stores

Shopping

Spray Tanning

Tanning Beds

Tanning

Beauty & Spas

Italian

Restaurants

Landscaping

Home Services

Contractors

Active Life

Arts & Entertainment

Horse Racing

Casinos

Event Planning & Services

Caterers

Discount Store

Wholesale Stores

Shopping

Outlet Stores

Doctors

Orthopedists

Health & Medical

Karaoke

Country Dance Halls

Bars

Nightlife

Restaurants

American (New)

American (Traditional)

Chicken Wings

Restaurants

Fast Food

Restaurants

American (New)

Restaurants

Pizza

Event Planning & Services

Hotels

Hotels & Travel

Japanese

Restaurants

DUI Law

Professional Services

Lawyers

Divorce & Family Law

Criminal Defense Law

Endodontists

Health & Medical

Pediatric Dentists

Cosmetic Dentists

Orthodontists

General Dentistry

Dentists

Arts & Entertainment

Museums

Seafood

Fish & Chips

Restaurants

Fast Food

Auto Repair

Automotive

Transmission Repair

Auto Customization

 ${\tt Automotive}$

Furniture Reupholstery

Local Services

Auto Upholstery

Flowers & Gifts

Florists

Shopping

Tobacco Shops

Vape Shops

Personal Shopping

Shopping

Party & Event Planning

Event Planning & Services

Amusement Parks

Food

Desserts

Active Life

Auto Repair

Auto Parts & Supplies

Oil Change Stations

Automotive

Tires

Doctors

Eyebrow Services

Tattoo Removal

Beauty & Spas

Health & Medical

Delis

Restaurants

Sandwiches

Local Services

Printing Services

Notaries

Mailbox Centers

Shipping Centers

Obstetricians & Gynecologists

Health & Medical

Doctors

Food

Grocery

Health & Medical

Physical Therapy

Appliances & Repair

Local Services

Arts & Entertainment

Stadiums & Arenas

Restaurants

Sandwiches

Fast Food

Transportation

Limos

Hotels & Travel

Auto Repair

Automotive

Restaurants

Hot Dogs

Mexican

Restaurants

Fashion

Women's Clothing

Shopping

Hotels & Travel Resorts

Bars

Nightlife Lounges

Dance Clubs

Hair Salons

Hair Stylists

Beauty & Spas

Makeup Artists

Eyelash Service

American (Traditional)

Comfort Food

Barbeque

Restaurants

Real Estate

Home Staging

Interior Design

Estate Liquidation

Home Organization

Home Services

Restaurants

Salad

Fast Food

Mexican

Restaurants

Seafood

Carpet Cleaning

Home Services

Local Services

Office Cleaning

Home Cleaning

Professional Services

Southern

Chicken Wings

Fast Food

American (Traditional)

Restaurants

Arts & Entertainment

Local Flavor

Festivals

Oil Change Stations

Tires

Auto Parts & Supplies

Automotive

Gardeners

Home Services

Landscape Architects

Local Services

Landscaping

Pest Control

Wildlife Control

Dentists

General Dentistry

Health & Medical

Cosmetic Dentists

Pets

Dog Walkers

Pet Sitting

Pet Services

Active Life

Fitness & Instruction

Gyms

Interval Training Gyms

Event Planning & Services

Professional Services

Photographers

Real Estate

Home Services

Property Management

Pets

Pet Services

Pet Sitting

Veterinarians

Fashion

Department Stores

Shopping

Financial Services

Professional Services

Tax Services

Accountants

Home Services

Local Services

Packing Supplies

Movers

Self Storage

Shopping

Body Shops

Auto Repair Automotive

Restaurants

Seafood

Barbers

Beauty & Spas

Hair Stylists

Hair Salons

Kids Hair Salons

Party & Event Planning

Wedding Planning

DJs

Event Planning & Services

Auto Repair

Automotive

Car Stereo Installation

Auto Customization

Professional Services

Internet Service Providers

Home Services

Mobile Phone Accessories

Shopping

Mobile Phones

Electronics

IT Services & Computer Repair

Local Services

Telecommunications

Pets

Pet Groomers

Pet Services

Pet Training

Pediatric Dentists

Oral Surgeons

Cosmetic Dentists

General Dentistry

Dentists

Health & Medical

Home Services

Real Estate Agents

Real Estate

Pawn Shops

Shopping

Jewelry

Electronics

American (New)

Restaurants

Food

Breweries

Brewpubs

Playgrounds

Skate Parks

Parks

Active Life

Restaurants

Delis

Sandwiches

Auto Parts & Supplies

Automotive

Endodontists

Health & Medical

General Dentistry

Pediatric Dentists

Cosmetic Dentists

Dentists

Wedding Planning

Officiants

Event Planning & Services

Bars

American (Traditional)

Nightlife

Restaurants

Tex-Mex

American (Traditional)

Restaurants

Sandwiches

Fast Food

Home Decor

Home Services

Appliances

Shopping

Home & Garden

Kitchen & Bath

Building Supplies

Massage Therapy

Reflexology

Reiki

Health & Medical

Beauty & Spas

Massage

Shopping

Electronics

Medical Centers

Skin Care

Health & Medical

Medical Spas

Dermatologists

Doulas

Beauty & Spas

Doctors

Dentists

Health & Medical

General Dentistry

Screen Printing/T-Shirt Printing

Screen Printing

Sewing & Alterations

Shopping

Local Services

Wholesale Stores

Embroidery & Crochet

Arts & Crafts

Movers

Packing Services

Home Services

Food

Convenience Stores

Coffee & Tea

Automotive

Convenience Stores

Gas Stations

Food

Handyman

Property Management

Home Services

Gay Bars

Lawyers

Real Estate

Land Surveying

Real Estate Law

Real Estate Services

Nightlife

Professional Services

Bars

Home Services

Shopping

Electricians

Contractors

Flooring

Plumbing

Damage Restoration

Roofing

Kitchen & Bath

Home & Garden

Car Wash

Delis

Convenience Stores

Food

Restaurants

Automotive

Active Life

Weight Loss Centers

Gyms

Health & Medical

Education

Specialty Schools

Fitness & Instruction

Trainers

Active Life

Golf

Psychologists

Counseling & Mental Health

Naturopathic/Holistic

Doctors

Acupuncture

Family Practice

Health & Medical

Medical Centers

Home Services

Heating & Air Conditioning/HVAC

Restaurants

Pizza

Real Estate

Apartments

Home Services

Restaurants

Indian

Mexican

Restaurants

Hair Stylists

Hair Removal

Beauty & Spas

Hair Extensions

Waxing

Hair Salons

Dentists

General Dentistry

Periodontists

Health & Medical

Food

Coffee & Tea

Mexican

Breakfast & Brunch

Sandwiches

Event Planning & Services

Food Trucks

Restaurants

Food

Caterers

Diagnostic Services

Health & Medical

Restaurants

Food

Bakeries

Desserts

Breakfast & Brunch

Beauty & Spas

Barbers

Beauty & Spas

Hair Salons

Skin Care

Neurologist

Spine Surgeons

Cosmetic Surgeons

Doctors

Health & Medical

Restaurants

Bars

Nightlife

Caterers

Mexican

Tex-Mex

Event Planning & Services

Doctors

Retina Specialists

Ophthalmologists

Health & Medical

Home Services

Carpet Cleaning

Local Services

Accessories

Fashion

Baby Gear & Furniture

Children's Clothing

Shopping

Veterinarians

Pets

Beauty & Spas

Hair Salons

Emergency Rooms

Urgent Care

Health & Medical

Diagnostic Services

Hospitals

Diagnostic Imaging

Automotive

Oil Change Stations

Smog Check Stations

Auto Repair

Gas Stations

Pet Stores

Pet Services

Pets

Shopping

Local Services

Office Cleaning

Home Organization

Professional Services

Recycling Center

Movers

Home Services

Junk Removal & Hauling

Party Bus Rentals

Event Planning & Services

Italian

Restaurants

Sandwiches

Salad

Restaurants

Food

Juice Bars & Smoothies

Home Services

Apartments

Real Estate

Steakhouses

Event Planning & Services

Food

Brazilian

Beer

Wine & Spirits

Venues & Event Spaces

Restaurants

Fast Food

Restaurants

Sandwiches

American (New)

Coffee & Tea

Food

Hotels & Travel

Active Life

Private Tutors

Climbing

Hiking

Education

Tours

Walking Tours

Health & Medical

Neurologist

Doctors

Public Services & Government

Departments of Motor Vehicles

Automotive

Health & Medical

Obstetricians & Gynecologists

Doctors

Gluten-Free

Restaurants

Vegan

American (New)

Hair Salons

Beauty & Spas

Cosmetics & Beauty Supply

Shopping

Hair Removal

Event Planning & Services

Arcades

Nightlife

Bars

Arts & Entertainment

Venues & Event Spaces

Coffee & Tea

Food

Shopping

Arts & Crafts

Fabric Stores

Fashion

Department Stores

Automotive

Shopping

Wholesale Stores

Tires

Arts & Entertainment

Coffee & Tea

Bars

Food

Restaurants

Nightlife

Music Venues

Cafes

Customized Merchandise

Shopping

Coffee Roasteries

Food

Coffee & Tea

Bakeries

Bagels

Shopping

Jewelry

Nail Salons

Beauty & Spas

Health & Medical

Active Life

Vitamins & Supplements

Nutritionists

Food

Trainers

Specialty Food

Fitness & Instruction

Health Markets

Shopping

Pizza

Sandwiches

Restaurants

Chicken Wings

Auto Detailing

Automotive

Car Wash

Oil Change Stations

Home & Garden

Home Decor

Shopping

Kitchen & Bath

Home Services

Building Supplies

Interior Design

Gyms

Active Life

Fitness & Instruction

Boxing

Trainers

Pets

Pet Stores

Pet Groomers

Pet Services

Pet Adoption

Pet Training

Lounges

Nightlife

Bars

Pet Boarding

Pet Sitting

Pets

Pet Services

Pet Groomers

Casinos

Arts & Entertainment

Festivals

Arts & Entertainment

Food

Hair Salons

Beauty & Spas

Food

Desserts

Burgers

Restaurants

Ice Cream & Frozen Yogurt

Fast Food

Professional Services

Restaurants

Pizza

Sandwiches

Fast Food

Restaurants

Shopping

Men's Clothing

Women's Clothing

Fashion

Doctors

Obstetricians & Gynecologists

Health & Medical

Steakhouses

American (Traditional)

Barbeque

Restaurants

Arts & Entertainment

Shopping

Art Galleries

Karaoke

Hotels

Nightlife

Party Equipment Rentals

Event Planning & Services

Party Supplies

Hotels & Travel

Chiropractors

Health & Medical

Physical Therapy

Naturopathic/Holistic

Doctors

Nutritionists

Local Services

Appliances & Repair

Oil Change Stations

Windshield Installation & Repair

Automotive

Auto Repair

Auto Glass Services

Home Cleaning

Home Services

Home Organization

Office Cleaning

Professional Services

Beauty & Spas

Eyelash Service

Waxing

Nail Salons

Hair Removal

Professional Services

Women's Clothing

Fashion

Shopping

Italian

Pizza

Restaurants

Shopping

Fashion

Accessories

Women's Clothing

Doctors

Ophthalmologists

Eyewear & Opticians

Health & Medical

Optometrists

Shopping

Laser Eye Surgery/Lasik

Eyewear & Opticians

Health & Medical

Optometrists

Shopping

Adult

Shopping

Lingerie

Fashion

Hotels & Travel

Asian Fusion

Day Spas

Casinos

Restaurants

Beauty & Spas

Arts & Entertainment

Resorts

Dentists

Periodontists

Cosmetic Dentists

Prosthodontists

Oral Surgeons

Health & Medical

Packing Services

Movers

Home Services

Burgers

Fast Food

Sandwiches

Restaurants

Shopping

Jewelry

Men's Hair Salons

Barbers

Beauty & Spas

Hair Salons

Women's Clothing

Children's Clothing

Shopping

Fashion

Men's Clothing

Local Services

Mobile Phones

IT Services & Computer Repair

Telecommunications

Electronics

Shopping

Mobile Phone Accessories

Carpeting

Carpet Installation

Flooring

Home Services

Fitness & Instruction

Trainers

Active Life

Gyms

Restaurants

Burgers

Sports Bars

Bars

American (New)

Nightlife

American (Traditional)

Barbers

Hair Salons

Beauty & Spas

Local Services

Furniture Assembly

Furniture Repair

Furniture Reupholstery

Home Services

Plumbing

Home Services

Apartments

Home Services

Real Estate

Pool & Hot Tub Service

Pool Cleaners

Home Services

Professional Services

Contractors

Architects

Home Services

Nightlife

Sports Bars

Bars

Restaurants

Karaoke

Local Services

Self Storage

Beer

Wine & Spirits

Restaurants

Burgers

Pubs

Nightlife

Food

Bars

Appliances & Repair

Local Services

Restaurants

Italian

Restaurants

Food

American (Traditional)

Coffee & Tea

Breakfast & Brunch

Real Estate

Apartments

Home Services

Coffee & Tea

Food

Restaurants

Fast Food

Burgers

Burgers

Fast Food

Restaurants

Food

Coffee & Tea

Restaurants

Fast Food

Shopping

Gift Shops

Flowers & Gifts

Event Planning & Services

Venues & Event Spaces

Home Services

Real Estate Services

Real Estate Agents

Real Estate

Restaurants

Mexican

Skin Care

Makeup Artists

Tanning

Spray Tanning

Beauty & Spas

Pizza

Food

Restaurants

Shopping

Active Life

Archery

Sporting Goods

Eyebrow Services

Event Planning & Services

Threading Services

Henna Artists

Beauty & Spas

Hair Salons

Hair Removal

Grocery

Food

Ethnic Food

Specialty Food

Imported Food

Interior Design

Flooring

Contractors

Home Services

Landscaping

Home Services

Masonry/Concrete

Landscape Architects

Shopping Centers

Shopping

Sports Bars

Nightlife

American (Traditional)

Restaurants

Bars

Pet Services

Dog Walkers

Pets

Pet Sitting

Pet Training

Automotive

Auto Parts & Supplies

Car Dealers

Security Systems

Home Theatre Installation

Home Services

Security Services

Professional Services

Home Services

Movers

Financial Services

Insurance

Indian

Pakistani

Restaurants

Restaurants

Breakfast & Brunch

Food

Bakeries

Food

Grocery

Signmaking

Professional Services

Fruits & Veggies

Bakeries

Breakfast & Brunch

Grocery

Restaurants

Specialty Food

Food

Mediterranean

Middle Eastern

Event Planning & Services

Photographers

Event Photography

Session Photography

Auto Parts & Supplies

Auto Customization

Auto Repair

Automotive

Tires

Real Estate

Home Services

Mortgage Brokers

Real Estate

Real Estate Services

Home Services

Real Estate Agents

Shopping

Drugstores

Shopping

Bridal

Home Cleaning

Professional Services

Home Services

Office Cleaning

Carpet Cleaning

Local Services

Local Services

Hotels & Travel

Airports

Beauty & Spas

Barbers

Kids Hair Salons

Men's Hair Salons

Hair Salons

Hair Stylists

Food Stands

Food

Restaurants

Street Vendors

Flowers & Gifts

Books

Mags

Music & Video

Arts & Entertainment

Supernatural Readings

Shopping

Bookstores

Gift Shops

Spiritual Shop

Pizza

Restaurants

Child Care & Day Care

Education

Local Services

Arts & Crafts

Nanny Services

Shopping

Toy Stores

Desserts

Specialty Food

Chocolatiers & Shops

Candy Stores

Food

Party & Event Planning

Floral Designers

Florists

Flowers & Gifts

Shopping

Event Planning & Services

Car Wash

Automotive

Sports Wear

Shopping

Fashion

Sporting Goods

Ice Cream & Frozen Yogurt

Desserts

Food

Local Services

Sewing & Alterations

Automotive

Windshield Installation & Repair

Auto Glass Services

Hostels

Hotels & Travel

Food

Fast Food

Filipino

Ethnic Food

Restaurants

Specialty Food

Mortuary Services

Local Services

Funeral Services & Cemeteries

Wedding Planning

Event Planning & Services

Shopping

Gift Shops

Florists

Flowers & Gifts

Local Services

Beauty & Spas

Hair Salons

Nail Salons

Beauty & Spas

Barbers

Event Planning & Services

Women's Clothing

Fashion

Department Stores

Shopping

Home & Garden

Arts & Crafts

Discount Store

Flowers & Gifts

Accessories

Men's Clothing

Cards & Stationery

Home Decor

Photographers

Event Photography

Event Planning & Services

Session Photography

Home & Garden

Shopping

Electronics

Furniture Stores

Appliances

Middle Schools & High Schools

Education

Elementary Schools

Kids Activities

Active Life

Grocery

Food

Pet Services

Pets

Pet Groomers

Restaurants

Nightlife

Irish Pub

Bars

Irish

Optometrists

Health & Medical

Home Services

Handyman

Insurance

Life Insurance

Auto Insurance

Home & Rental Insurance

Financial Services

IT Services & Computer Repair

Local Services

Mobile Phone Repair

```
Electronics Repair
        Restaurants
        Chinese
        Hotels
        Event Planning & Services
        Venues & Event Spaces
        Caterers
        Hotels & Travel
        Kitchen & Bath
        Shopping
        Home & Garden
        Professional Services
        Lawyers
        DUI Law
        Criminal Defense Law
        Financial Services
        Professional Services
        Tax Services
        Accountants
        Auto Glass Services
        Automotive
        Heating & Air Conditioning/HVAC
        Home Energy Auditors
        Insulation Installation
        Home Services
        Bookstores
        Public Services & Government
        Education
        Shopping
        Books
        Mags
        Music & Video
        Libraries
        Educational Services
        ______
        TypeError
                                               Traceback (most recent call last)
        <ipython-input-37-355b420ba040> in <module>
             4
              5 for val in business_data_subset.categories.str.split(','):
        ----> 6 for cat val in val:
             7
                      cat_val = cat_val.strip()
                       print(cat_val)
        TypeError: 'float' object is not iterable
In [38]: category_series = pd.Series(category_list)
        n = len(category_series.value_counts())
```

How many distinct categories are in 'business data subset'?

```
In [39]: # Number of distinct categories equal to the number of rows
    f'There are {n} distinct categories in the dataset.'
Out[39]: 'There are 389 distinct categories in the dataset.'
```

Problem 13: (5 points)

For this question, we want to see if we can use the 'categories' variable from the 'business data subset' table to extract the records belonging to **food establishments** - any place that someone could go to get a freshly prepared meal.

Create a copy of the Pandas DataFrame called 'food establishments' which contains all business in 'business data subset' that contain either *dining* or *restaurant* in their list of categories. (Make sure to ignore case.) How many food establishments are captured using this method?

Hint: This can be accomplished in at least two ways. No reasonable method is bad! Create a new variable and use it to filter observations or directly subset the data. Your choice!

```
In [40]: # Your code here
         f13 = business data subset.categories.str.contains('Dining') | business data subse
         t.categories.str.contains('Restaurant')
         food_establishments = business_data_subset[f13]
         n = len(food_establishments)
         f'There are {n} establishments which provide freshly prepared meals.'
Out[40]: 'There are 27724 establishments which provide freshly prepared meals.'
```

Problem 14: (5 points)

Using the 'food establishments' table, create a table with 'stars' as the index, 'state' as the columns, and the conditional `stars` distribution of food establishments for each `state` as values.

Include the marginal 'stars' distribution in your table by using the appropriate 'margins' argument. Create a valid conditional 'stars' distribution for each state using the 'normalize = 'columns' argument.

You can check that you have successfully create valid conditional stars distributions for each state by verifying each column sums to 1.

Your final table should look similar to the table below with the appropriate values imputed for val.

state	ΑZ	NV	NC	ОН	AII
stars					
1	val	val	val	val	val
1.5	val	val	val	val	val
2	val	val	val	val	val
2.5	val	val	val	val	val
3	val	val	val	val	val
3.5	val	val	val	val	val
4	val	val	val	val	val
4.5	val	val	val	val	val
5	val	val	val	val	val

Out[41]:

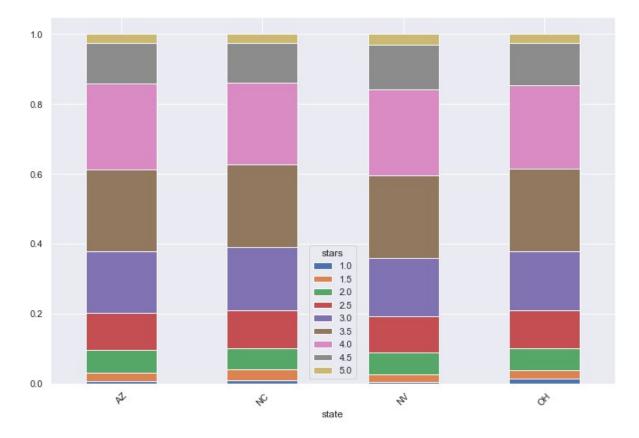
state	AZ	NC	NV	ОН	All
stars					
1.0	0.006136	0.009119	0.003765	0.012701	0.007142
1.5	0.024274	0.029998	0.022862	0.026196	0.025105
2.0	0.064248	0.062155	0.062668	0.061520	0.063014
2.5	0.107562	0.106791	0.103685	0.109149	0.106695
3.0	0.176051	0.183345	0.166218	0.167494	0.172955
3.5	0.232990	0.235661	0.237090	0.237150	0.235247
4.0	0.248150	0.234941	0.246369	0.240524	0.244301
4.5	0.114781	0.111831	0.126950	0.118674	0.118309
5.0	0.025808	0.026158	0.030393	0.026593	0.027233

Problem 15: (5 points)

Is there a difference in the rating distribution ('stars') of food establishments by state?

Use the table you created in the previous problem to create an appropriate visualization that helps you to answer the above question.

Out[42]: <matplotlib.axes. subplots.AxesSubplot at 0x1b408090160>



In [43]: f'After looking at the normalized and conditional distribution visualization, There
is insignificant difference between star distribution between these 4 states.'

Out[43]: 'After looking at the normalized and conditional distribution visualization, The re is insignificant difference between star distribution between these 4 state s.'

Problem 16: (5 points)

Using the `food_establishments` data, calculate the *median*, *mean*, *standard deviation*, *minimum*, *maximum*, and *number of observations* for food establishments with/without a *Happy Hour* by using the `attributes_happyhour` variable.

```
In [44]: # Your code here
          food_establishments.groupby(["attributes happyhour"]).agg({'stars':['count', 'min',
          'max', 'mean', 'median', 'std']}).sort_index(ascending = False)
Out[44]:
                            stars
                            count min max mean
                                                   median std
           attributes_happyhour
                       True
                             3057
                                  1.0
                                       5.0 3.505561
                                                      3.5 0.620838
                              435 1.5 5.0 3.678161
                                                      4.0 0.655432
```

Describe any differences you find for food establishments having a *Happy Hour* and those that do not. Do food establishments with a happy hour seem to typically be higher or lower rated than food establishments without a happy hour? Do most food establishments offer a happy hour?

Written Answer:

1.

Problem 17: (5 points)

Let's investigate differences in food establishments with/without a Happy Hour using an appropriate visualization.

First, create a new variable for the food establishments table called binned review count that bins the review count variable as:

• '[0-10]' = having between 0 and 10 reviews inclusive

False

- '(10,100]' = having between 10 and 100 reviews
- '(100,1,000]' = having between 100 and 1,000 reviews
- '1,000 +` = more than one thousand reviews.

Create a side-by-side violin plot with 'binned review count' on the y-axis, 'stars' on the x-axis, and allow the rating distributions to differ for establishments **with and without a Happy Hour** by using the `split = True` argument. As always, provide an appropriate title and axes labels.

In [45]: df_metadata(food_establishments)

Out[45]:

	Column_Name	Column_Datatype	Row_Count	Null_Count	Null_Ratio_Pct
0	business_id	object	27724	0	0.00
1	name	object	27724	0	0.00
2	address	object	27724	293	1.06
3	neighborhood	object	27724	19314	69.67
4	city	object	27724	1	0.00
5	state	object	27724	0	0.00
6	postal_code	object	27724	38	0.14
7	latitude	float64	27724	0	0.00
8	longitude	float64	27724	0	0.00
9	open_on_weekends	bool	27724	0	0.00
10	attributes_happyhour	object	27724	24232	87.40
11	review_count	int64	27724	0	0.00
12	stars	float64	27724	0	0.00
13	categories	object	27724	0	0.00
14	is_open	int64	27724	0	0.00

```
In [46]: # Your code here
bins = [0, 10,100,1000, 10000]
food_establishments["binned_review_count"] = pd.cut(food_establishments['review_count'], bins)
food_establishments.head(10)
```

C:\ProgramData\Anaconda3\lib\site-packages\ipykernel_launcher.py:3: SettingWithC
opyWarning:

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

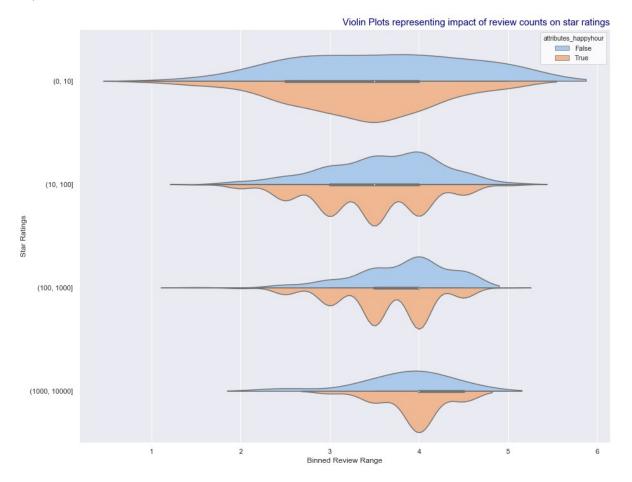
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html#indexing-view-versus-copy

This is separate from the ipykernel package so we can avoid doing imports until

Out[46]:

	business_id	name	address	neighborhood	city	state	postal_code	latitude
1	AjEblBw6ZFfln7ePHha9PA	CK'S BBQ & Catering	NaN	NaN	Henderson	NV	89002	35.960734
8	8-NRKkPY1UiFXW20WXKiXg	Filiberto's Mexican Food	1440 N. Dysart Ave	NaN	Avondale	AZ	85323	33.448106
12	_c3ixq9jYKxhLUB0czi0ug	Original Hamburger Works	2801 N 15th Ave	NaN	Phoenix	AZ	85007	33.479807
19	vJluDBdu01vCA8y1fwR1OQ	CakesbyToi	3940 Martin Luther King Blvd, Ste 101	NaN	Las Vegas	NV	89106	36.192284
21	gJ5xSt6147gkcZ9Es0WxlA	Rally's Hamburgers	3040 Carnegie Ave	Central	Cleveland	ОН	44115	41.499989
22	3ByGQOVgds2YEu6kzl-XEQ	Rib Shop	4131 N 83rd Ave	NaN	Phoenix	AZ	85033	33.495298
24	CeuTRtwsq6w5rztGOyNMPg	Salsitas	7745 W Thomas Rd	NaN	Phoenix	AZ	85033	33.479671
29	6YC6CsXRrmPv_iwfvc9onA	Teresas Pizzeria	9525 State Rt 14	NaN	Streetsboro	ОН	44241	41.243783
32	kgffcoxT6BQp-gJ-UQ7Czw	Subway	2255 N Rampart Blvd	Summerlin	Las Vegas	NV	89128	36.201794
33	0jtRI7hVMpQHpUVtUy4ITw	Omelet House Summerlin	2227 N Rampart Blvd	Summerlin	Las Vegas	NV	89128	36.201990

Out[47]: Text(1.0, 1.0, 'Violin Plots representing impact of review counts on star rating
 s')



Describe what you see in the plot.

Written Answer:

'Happy Hour pulls in more people. And obviously from there its the cascading effect takes over if the food is good driving higher ratings. And whether happy hour or not ratings given are consistent.'

Problem 18: (5 points)

Suppose you work at Yelp. You have been tasked with a new initiative to create a new award for the highest performing food establishments represented on the Yelp platform. The team at Yelp has determined that any food establishment that has both the highest `stars` rating **AND** the largest total number of reviews (`review_count`) in their city *deserves* the **Best Local Food Establishment Award**. You have been tasked with writing Python code that can determine which food establishments in a data set deserve this new prestigious award.

For this exercise, create a DataFrame containing all the food establishments in the `food_establishments` data that deserve **Best Local Food Establishment Award** for every city/state combination (to avoid issues with cities that have the same name). The final table that you are to create, called `best_food_establishments`, should provide the `name`, `city`, `state`, `review_count`, and `stars` ratings of all of the food establishments that deserve the award.

Important Notes: There are some slight variations in some city names like: LasVegas, Las Vegas, las vegas. You do not need to worry about cleaning this up before performing your analysis, this is really a proof-of-concept for your team. Also, some cities will have no food establishments that deserve to receive this award as it is possible that the food establishment with the largest number of reviews **does not** have the highest rating in the city.

```
In [48]: # Your code here
    best_food_establishments = food_establishments.groupby(['state', 'city', 'name', 's
    tars', 'binned_review_count' ]).agg({'review_count':'sum'}).reset_index()
    best_food_establishments.sort_values(by = ['state', 'city', 'name', 'stars', 'revie
    w_count'], ascending = [True, True, True, False,False])
```

Out[48]:

	state		city	name	etare	binned_review_count	review count	
-								
	0	AZ	Ahwatukee	Barro's Pizza	3.0	(10, 100]	85	
	1	AZ	Ahwatukee	Cupz N' Crepes	4.0	(100, 1000]	283	
	2	AZ	Ahwatukee	Florencia Pizza Bistro	4.0	(100, 1000]	184	
	3	AZ	Ahwatukee	McDonald's	1.5	(0, 10]	7	
	4	AZ	Ahwatukee	My Wine Cellar	4.0	(100, 1000]	202	
	5	AZ	Anthem	Auntie Anne's	4.5	(0, 10]	7	
	6	AZ	Anthem	Barro's Pizza	3.5	(10, 100]	69	
	7	AZ	Anthem	Cafe Afify	3.0	(0, 10]	7	
	8	AZ	Anthem	Cafe Provence	4.0	(10, 100]	50	
	9	AZ	Anthem	Haggen Food & Pharmacy	2.0	(0, 10]	7	
	10	AZ	Anthem	Hungry Howie's Pizza	2.5	(0, 10]	7	
	11	AZ	Anthem	Jack In the Box	2.5	(0, 10]	7	
	12	AZ	Anthem	Madelyn's	3.5	(0, 10]	4	
	13	AZ	Anthem	McDonald's	1.5	(10, 100]	41	
	14	AZ	Anthem	Native New Yorker	3.0	(0, 10]	4	
	15	AZ	Anthem	Pinata Nueva	2.5	(0, 10]	3	
	16	AZ	Anthem	Shanghai Club	3.5	(100, 1000]	105	
	18	AZ	Anthem	Subway	2.0	(10, 100]	11	
	17	AZ	Anthem	Subway	1.5	(0, 10]	5	
	19	AZ	Anthem	The Tennessee Grill	4.0	(100, 1000]	257	
	20	AZ	Anthem	Tru Burger Co.	3.5	(100, 1000]	173	
	21	AZ	Avondale	1 Brothers Pizza	4.0	(10, 100]	55	
	22	AZ	Avondale	5395 West Soul Food Place	4.0	(0, 10]	4	
	23	AZ	Avondale	99 Pub and Grill	3.5	(10, 100]	44	
	24	AZ	Avondale	AJK Chinese Cusine	4.0	(10, 100]	82	
	25	AZ	Avondale	Aguila's Hidaway	3.5	(10, 100]	12	
	26	AZ	Avondale	Ahipoki	4.5	(10, 100]	40	
	27	AZ	Avondale	Ararat Mediterranean Restaurant	4.0	(0, 10]	6	
	29	AZ	Avondale	Arizona Frybread	3.0	(100, 1000]	106	
	28	AZ	Avondale	Arizona Frybread	3.0	(0, 10]	3	
	30	AZ	Avondale	Atlantis Mexican Restaurant	3.0	(0, 10]	8	
	31	AZ	Avondale	Baja Fresh Mexican Grill	4.0	(0, 10]	9	
	32	AZ	Avondale	Bamboo Palace Buffet	2.0	(0, 10]	3	
	33	AZ	Avondale	Bbb Fashion	2.5	(0, 10]	4	
	34	AZ	Avondale	Big Apple Bagels	4.5	(0, 10]	7	
	35	AZ	Avondale	Blaze Fast Fire'd Pizza	4.5	(10, 100]	67	

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	state	city	name	stars	binned_review_count	review_count
36	AZ	Avondale	Brew Coffee and Tea	5.0	(0, 10]	6
37	AZ	Avondale	Buffalo Wings & Rings	2.5	(0, 10]	10
39	AZ	Avondale	Burger King	2.5	(0, 10]	7
38	AZ	Avondale	Burger King	2.0	(0, 10]	9
40	AZ	Avondale	Cafe Rio Mexican Grill	3.0	(100, 1000]	134
41	AZ	Avondale	Cafe Zamora	4.0	(10, 100]	86
42	AZ	Avondale	Café Zupas	3.5	(10, 100]	100
43	AZ	Avondale	Carlos O'Brien's - Avondale	3.0	(100, 1000]	106
44	AZ	Avondale	Carolina's	2.5	(10, 100]	70
45	AZ	Avondale	Carrabba's Italian Grill	4.0	(100, 1000]	142
46	AZ	Avondale	Casa de Plata	3.5	(10, 100]	86
47	AZ	Avondale	Chick-fil-A	4.0	(10, 100]	60
48	AZ	Avondale	China City Super Buffet	2.5	(10, 100]	90
49	AZ	Avondale	Chipotle Mexican Grill	2.5	(10, 100]	73
50	AZ	Avondale	Church's Chicken	2.5	(0, 10]	5
51	AZ	Avondale	Claim Jumper	2.5	(100, 1000]	219
52	AZ	Avondale	Colados Coffee & Crepes	4.5	(100, 1000]	338
53	AZ	Avondale	Cowgirls Bar & Grill	1.5	(0, 10]	9
54	AZ	Avondale	Cowgirls Steakhouse and Saloon	3.0	(10, 100]	18
55	AZ	Avondale	Cristina's Restaurant	4.0	(10, 100]	51
56	AZ	Avondale	Cucina Tagliani	3.0	(0, 10]	3
57	AZ	Avondale	Culver's	4.0	(100, 1000]	110
58	AZ	Avondale	Daddy Duke's	3.5	(10, 100]	19
59	AZ	Avondale	Dairy Queen	2.0	(10, 100]	40
60	AZ	Avondale	Del Taco	2.5	(10, 100]	24
61	AZ	Avondale	Dickey's Barbecue Pit	3.5	(10, 100]	19
63	AZ	Avondale	Domino's Pizza	3.5	(10, 100]	15
62	AZ	Avondale	Domino's Pizza	3.0	(10, 100]	12
64	AZ	Avondale	Don Pancho Mexican Food	4.5	(100, 1000]	256
65	AZ	Avondale	Don Rafa Taqueria	4.0	(0, 10]	6
66	AZ	Avondale	Don Taco	3.5	(10, 100]	45
67	AZ	Avondale	Dragon Garden Express	3.5	(10, 100]	30
68	AZ	Avondale	Ed's Fish & Chips	3.5	(10, 100]	31
69	AZ	Avondale	Eest Asian Bistro	4.0	(100, 1000]	139
70	AZ	Avondale	El Pollo Loco	3.0	(10, 100]	13
71	AZ	Avondale	El Tataki Sushi	3.0	(100, 1000]	133
72	AZ	Avondale	Eribertos Mexican Food	4.0	(10, 100]	34
73	AZ	Avondale	Everybody's Neighborhood Grill	3.5	(10, 100]	45
74	AZ	Avondale	Fiesta Mexicana	4.0	(100, 1000]	392
76	AZ	Avondale	Filiberto's Mexican Food	3.0	(0, 10]	5
75	AZ	Avondale	Filiberto's Mexican Food	2.5	(10, 100]	40

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	state	city	name	stars	binned_review_count	review_count
77	AZ	Avondale	Fired Pie	4.0	(10, 100]	56
78	AZ	Avondale	Flavors of Louisiana	Flavors of Louisiana 4.5 (100, 10		668
79	AZ	Avondale	Floriberto's Mexican Food	5.0	(0, 10]	3
80	AZ	Avondale	Four Seasons Buffet	3.0	(0, 10]	6
81	AZ	Avondale	Free Agents Sports Grill	4.0	(10, 100]	11
82	AZ	Avondale	Fritzi's Heart & Soul BBQ	4.0	(10, 100]	11
83	AZ	Avondale	Game Time Sports Grill	3.5	(10, 100]	16
84	AZ	Avondale	Garden Grille & Bar	4.0	(0, 10]	5
85	AZ	Avondale	Greek Gyro Express	4.5	(100, 1000]	181
87	AZ	Avondale	Hungry Howie's Pizza	3.0	(10, 100]	28
86	AZ	Avondale	Hungry Howie's Pizza	1.5	(0, 10]	9
88	AZ	Avondale	IHOP	2.5	(10, 100]	91
89	AZ	Avondale	In-N-Out Burger	4.0	(100, 1000]	148
90	AZ	Avondale	India Garden	4.0	(100, 1000]	255
91	AZ	Avondale	International Bistro	3.0	(0, 10]	4
92	AZ	Avondale	Islands Restaurant	3.5	(100, 1000]	166
93	AZ	Avondale	JT Boba House	3.5	(100, 1000]	202
94	AZ	Avondale	Jack In the Box	2.0	(10, 100]	27
95	AZ	Avondale	Jack in the Box	2.5	(10, 100]	16
96	AZ	Avondale	Jersey Mike's Subs	3.0	(10, 100]	22
97	AZ	Avondale	Jimmy John's	3.0	(10, 100]	61
98	AZ	Avondale	Johnny Rockets	3.0	(10, 100]	20
99	AZ	Avondale	Jr. Mexican Food	3.5	(0, 10]	3
100	AZ	Avondale	KB Smokehouse & BBQ	3.5	(0, 10]	10
101	AZ	Avondale	KFC	1.0	(10, 100]	32
102	AZ	Avondale	KFC / A&W	1.5	(0, 10]	8
103	AZ	Avondale	Kneaders Bakery Cafe	3.5	(100, 1000]	143
104	AZ	Avondale	Kreative Kupcakes	3.5	(0, 10]	8
105	AZ	Avondale	LA Fiesta Market	4.5	(0, 10]	10
106	AZ	Avondale	La Salsita Taco Shop	3.5	(10, 100]	50
107	AZ	Avondale	Laura's Burgers and More	5.0	(10, 100]	89
108	AZ	Avondale	Lighthouse Sports Bar	2.0	(10, 100]	16
109	AZ	Avondale	Little Caesars Pizza	3.0	(10, 100]	18
110	AZ	Avondale	Long John Silvers	1.0	(0, 10]	3
111	AZ	Avondale	Main Event Entertainment	2.5	(100, 1000]	145
112	AZ	Avondale	Mandy's Fish & Chips	4.5	(10, 100]	55
113	AZ	Avondale	Mangiamo's Pizza	4.0	(10, 100]	21
114	AZ	Avondale	Mango Flats	3.0	(0, 10]	9
115	AZ	Avondale	Manny's Mexican Restaurant	2.5	(100, 1000]	127
116	AZ	Avondale	Mariachi's	4.5	(10, 100]	14
117	AZ	Avondale	Mariscos Las Playitas	4.0	(10, 100]	29

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	state	city	name	stars	binned_review_count	review_count
119	AZ	Avondale	McDonald's	2.5	(0, 10]	5
118	AZ	Avondale	McDonald's	1.5	(10, 100]	59
120	AZ	Avondale	Mi Cocina	4.5	(10, 100]	56
121	AZ	Avondale	Mi Panaderia	3.5	(0, 10]	8
122	AZ	Avondale	Mi Vegana Madre	4.5	(0, 10]	10
123	AZ	Avondale	My Big Fat Greek Restaurant	3.5	(10, 100]	11
124	AZ	Avondale	NYPD Pizza	4.0	(100, 1000]	186
125	AZ	Avondale	Native Grill & Wings	2.5	(100, 1000]	130
126	AZ	Avondale	New Wok Chinese Food	3.0	(10, 100]	33
127	AZ	Avondale	Ono Hawaiian BBQ	3.5	(100, 1000]	121
128	AZ	Avondale	PT Noodles - Avondale	4.0	(10, 100]	34
129	AZ	Avondale	Pacific Seafood Super Buffet	2.0	(10, 100]	17
130	AZ	Avondale	Palermo's Grill	2.5	(0, 10]	4
132	AZ	Avondale	Palermos Pizza	4.0	(10, 100]	39
131	AZ	Avondale	Palermos Pizza	3.0	(0, 10]	6
133	AZ	Avondale	Panda Express	2.5	(10, 100]	52
134	AZ	Avondale	Panera Bread	2.5	(10, 100]	91
135	AZ	Avondale	Papa Murphy's	3.5	(10, 100]	12
136	AZ	Avondale	Paradise Bakery and Cafe	2.5	(10, 100]	34
137	AZ	Avondale	Pei Wei	3.0	(100, 1000]	116
139	AZ	Avondale	Peter Piper Pizza	2.5	(10, 100]	33
138	AZ	Avondale	Peter Piper Pizza	1.5	(10, 100]	20
140	AZ	Avondale	Pieology Pizzeria	4.0	(100, 1000]	132
141	AZ	Avondale	Pita Kitchen - Avondale	4.5	(100, 1000]	543
143	AZ	Avondale	Pizza Hut	3.5	(0, 10]	6
142	AZ	Avondale	Pizza Hut	1.5	(10, 100]	16
144	AZ	Avondale	Pizza Patron	4.0	(0, 10]	8
145	AZ	Avondale	Planet Smoothie	4.0	(10, 100]	13
146	AZ	Avondale	Potbelly Sandwich Shop	3.5	(10, 100]	27
147	AZ	Avondale	Raising Cane's Chicken Fingers	3.5	(100, 1000]	116
148	AZ	Avondale	Raspados Neza	3.0	(10, 100]	61
149	AZ	Avondale	Raul & Theresa's Original Restaurant	3.5	(100, 1000]	148
150	AZ	Avondale	Raul's Original	3.5	(0, 10]	3
151	AZ	Avondale	Red Dragon Buffet	4.0	(10, 100]	72
152	AZ	Avondale	Red Robin Gourmet Burgers	3.0	(100, 1000]	130
153	AZ	Avondale	Rosati's Pizza and Sports Pub	3.5	(10, 100]	69
154	AZ	Avondale	Rosendos Taco Shop	4.0	(10, 100]	12
155	AZ	Avondale	Rubio's Coastal Grill	4.0	(10, 100]	21
156	AZ	Avondale	Ruby Tuesday	3.0	(100, 1000]	133
157	AZ	Avondale	Rumbi Island Grill	4.0	(10, 100]	40
158	AZ	Avondale	Screwballs Pizza & Spirits	3.5	(0, 10]	10

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	state	city	name	stars	binned_review_count	review_count
159	AZ	Avondale	Senor Taco	3.0	(0, 10]	4
160	AZ	Avondale	Smashburger	3.5	(100, 1000]	224
162	AZ	Avondale	Sonic Drive-In	2.5	(10, 100]	19
161	AZ	Avondale	Sonic Drive-In	2.0	(10, 100]	16
163	AZ	Avondale	Starlight Cuisine	4.5	(10, 100]	16
168	AZ	Avondale	Subway	3.5	(0, 10]	6
167	AZ	Avondale	Subway	3.0	(0, 10]	4
166	AZ	Avondale	Subway	2.5	(10, 100]	11
165	AZ	Avondale	Subway	2.5	(0, 10]	7
164	AZ	Avondale	Subway	1.5	(0, 10]	5
169	AZ	Avondale	Sunrise Donuts	4.5	(10, 100]	25
170	AZ	Avondale	TJ's Homestyle Restaurant	3.5	(100, 1000]	290
173	AZ	Avondale	Taco Bell	3.0	(0, 10]	8
172	AZ	Avondale	Taco Bell	2.5	(0, 10]	14
171	AZ	Avondale	Taco Bell	2.0	(10, 100]	14
174	AZ	Avondale	Taqueria La Jacky	4.0	(10, 100]	19
175	AZ	Avondale	Tastings Wine Bar and Bistro	2.0	(0, 10]	5
176	AZ	Avondale	Tep Grill To Go	4.5	(0, 10]	5
177	AZ	Avondale	Thai Gourmet	4.5	(100, 1000]	227
178	AZ	Avondale	Thai Orchid Garden Restaurant	4.0	(100, 1000]	190
179	AZ	Avondale	The AZ FRY Guy	4.5	(100, 1000]	173
180	AZ	Avondale	The Habit Burger Grill	3.0	(10, 100]	83
181	AZ	Avondale	Theresa's Hacienda	3.0	(0, 10]	4
182	AZ	Avondale	Tokyo Joe's	3.5	(10, 100]	84
183	AZ	Avondale	Tony's Cafe	4.0	(10, 100]	51
184	AZ	Avondale	Tortas Paquime	4.0	(100, 1000]	133
185	AZ	Avondale	Tortas Y Raspados La Cascada	4.5	(10, 100]	46
186	AZ	Avondale	Ubaldo's Taco Shop	4.5	(0, 10]	6
187	AZ	Avondale	Village Inn	3.0	(10, 100]	60
188	AZ	Avondale	WaBa Grill	3.5	(10, 100]	71
189	AZ	Avondale	Walt's BBQ	4.0	(0, 10]	4
190	AZ	Avondale	We Olive & Wine Bar	4.5	(10, 100]	59
191	AZ	Avondale	Wendy's	2.5	(10, 100]	24
192	AZ	Avondale	Whataburger	3.5	(10, 100]	39
193	AZ	Avondale	Yogis Grill	3.0	(10, 100]	84
194	AZ	Avondale	Yogurtland	4.0	(10, 100]	59
195	AZ	Avondale	Zaipi's Raspados & More	4.0	(10, 100]	35
196	AZ	Avondale	Zeta's Grill	4.5	(100, 1000]	262
197	AZ	Buckeye	Argentos Pizza	4.5	(100, 1000]	107
198	AZ	Buckeye	Booty's Wings Burgers & Beer	3.5	(100, 1000]	111
199	AZ	Buckeye	Burger King	2.0	(10, 100]	17

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	state	city	name	stars	binned_review_count	review_count
200	AZ	Buckeye	Cafe 25:35	4.5	(100, 1000]	146
201	AZ	Buckeye	Carl's Jr	2.0	(10, 100]	27
202	AZ	Buckeye	Chipotle Mexican Grill	3.0	(10, 100]	64
203	AZ	Buckeye	Ciao Grazie Pizzeria Winebar	4.0	(100, 1000]	127
204	AZ	Buckeye	Conde's Mexican Food	3.0	(10, 100]	65
205	AZ	Buckeye	Corner Store	3.5	(10, 100]	14
206	AZ	Buckeye	Cracker Barrel Old Country Store	3.5	(100, 1000]	169
207	AZ	Buckeye	Culver's	4.0	(10, 100]	46
209	AZ	Buckeye	Denny's	3.0	(10, 100]	26
208	AZ	Buckeye	Denny's	2.0	(0, 10]	6
210	AZ	Buckeye	Domino's Pizza	3.0	(0, 10]	10
211	AZ	Buckeye	El Duende Hot Dogs	4.0	(10, 100]	12
212	AZ	Buckeye	El Pollo Loco	3.0	(10, 100]	24
213	AZ	Buckeye	Federico's Mexican Food	2.5	(10, 100]	47
214	AZ	Buckeye	Filiberto's Mexican Food	3.0	(10, 100]	76
215	AZ	Buckeye	Firehouse Subs	3.5	(10, 100]	69
216	AZ	Buckeye	Grandma Ruth's	3.5	(0, 10]	3
217	AZ	Buckeye	Ground Control At Verrado	2.0	(10, 100]	27
218	AZ	Buckeye	Halftime Sports Bar & Grill	2.0	(10, 100]	15
219	AZ	Buckeye	Harris' Smokehouse BBQ	4.5	(10, 100]	19
220	AZ	Buckeye	Hey Papirrin Mariscos Y Tacos Al Mesquite	4.0	(10, 100]	13
221	AZ	Buckeye	Hula Hawaiian Barbeque	3.0	(0, 10]	7
222	AZ	Buckeye	Indigo Grille	2.5	(10, 100]	27
223	AZ	Buckeye	Jack in the Box	2.0	(0, 10]	9
224	AZ	Buckeye	Jacky's Mexican Food	4.5	(10, 100]	68
225	AZ	Buckeye	Jimmy John's Sandwiches	5.0	(0, 10]	4
226	AZ	Buckeye	Julioberto's	3.0	(0, 10]	5
227	AZ	Buckeye	KFC	1.5	(10, 100]	25
228	AZ	Buckeye	La Fiesta	4.5	(10, 100]	33
229	AZ	Buckeye	La Placita Cafe	3.0	(10, 100]	43
230	AZ	Buckeye	Little Caesars Pizza	1.5	(0, 10]	10
232	AZ	Buckeye	McDonald's	2.0	(10, 100]	32
231	AZ	Buckeye	McDonald's	2.0	(0, 10]	8
233	AZ	Buckeye	Memphis Best BBQ	4.0	(10, 100]	19
234	AZ	Buckeye	Mikey's Restaraunt	4.0	(0, 10]	4
235	AZ	Buckeye	Millstone Cafe	4.0	(10, 100]	29
236	AZ	Buckeye	Native Grill & Wings	2.5	(10, 100]	90
238	AZ	Buckeye	Palermos Pizza	4.0	(0, 10]	5
237	AZ	Buckeye	Palermos Pizza	3.5	(10, 100]	42
239	AZ	Buckeye	Panda Express	2.0	(10, 100]	59

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	state	city	name	stars	binned_review_count	review_count
240	AZ	Buckeye	Papa John's Pizza	3.0	(10, 100]	18
241	AZ	Buckeye	Peter Piper Pizza	3.0	(10, 100]	33
243	AZ	Buckeye	Pizza Factory	3.0	(10, 100]	22
242	AZ	Buckeye	Pizza Factory	2.5	(10, 100]	34
245	AZ	Buckeye	Pizza Hut	3.0	(10, 100]	13
244	AZ	Buckeye	Pizza Hut	1.5	(0, 10]	9
246	AZ	Buckeye	Ramiros Mexican Food	4.0	(0, 10]	10
247	AZ	Buckeye	Ranchero's Rodeo Restaurant	4.0	(10, 100]	16
248	AZ	Buckeye	Salsitas	4.0	(10, 100]	20
249	AZ	Buckeye	Salsitas Mexican Food	4.5	(0, 10]	4
		•••				
24975	ОН	Westlake	Kabob Place	4.0	(10, 100]	41
24976	ОН	Westlake	Karl's Corned Beef & More	4.0	(0, 10]	3
24977	ОН	Westlake	La Campagna	4.0	(10, 100]	40
24978	ОН	Westlake	Legacy Cafe And Lounge	5.0	(0, 10]	8
24979	ОН	Westlake	Lehman's Deli	4.0	(10, 100]	44
24980	ОН	Westlake	Liquid Planet	3.5	(10, 100]	48
24981	ОН	Westlake	Little Budapest	3.5	(10, 100]	13
24982	ОН	Westlake	Lobster Bros Seafood	4.0	(10, 100]	18
24983	ОН	Westlake	Loco Leprechaun	3.0	(10, 100]	39
24984	ОН	Westlake	Luca West	4.0	(10, 100]	21
24985	ОН	Westlake	M Bistro	2.0	(0, 10]	3
24986	ОН	Westlake	Mahle's Restaurant and Lounge	4.0	(10, 100]	30
24987	ОН	Westlake	Manero's Italian Restaurant	3.0	(10, 100]	13
24988	ОН	Westlake	Max & Erma's	2.5	(10, 100]	24
24990	ОН	Westlake	McDonald's	2.0	(10, 100]	16
24989	ОН	Westlake	McDonald's	1.5	(10, 100]	13
24991	ОН	Westlake	Mezza Mediterranean Cuisine	4.0	(10, 100]	50
24992	ОН	Westlake	Miami Nights Grill, Bar, & Lounge	1.5	(10, 100]	19
24993	ОН	Westlake	Mikey's Pizza	4.0	(0, 10]	7
24994	ОН	Westlake	Mitchell's Tavern	3.5	(10, 100]	17
24995	ОН	Westlake	Moosehead Saloon	3.5	(10, 100]	68
24996	ОН	Westlake	Mr. Hero	5.0	(0, 10]	3
24997	ОН	Westlake	Nathans	3.0	(0, 10]	4
24998	ОН	Westlake	No. 1 Chinese Restaurant	3.0	(10, 100]	16
24999	ОН	Westlake	Noodlecat	2.0	(100, 1000]	112
25000	ОН	Westlake	Outback Steakhouse	3.0	(10, 100]	45
25001	ОН	Westlake	Panera Bread	2.5	(10, 100]	18
25003	ОН	Westlake	Panini's Bar & Grill	3.0	(10, 100]	24
25002	ОН	Westlake	Panini's Bar & Grill	2.5	(10, 100]	21
25004	ОН	Westlake	Papa John's Pizza	3.0	(0, 10]	4

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	state	city	name	stars	binned_review_count	review_count
25005	ОН	Westlake	Pasta Co-Op	4.5	(10, 100]	39
25006	ОН	Westlake	Pizza by Robert	3.5	(10, 100]	71
25007	ОН	Westlake	Rockwest Music And Grub Pub	4.0	(0, 10]	3
25008	ОН	Westlake	Romeo's Pizza	3.0	(0, 10]	8
25009	ОН	Westlake	Rosewood Grill	3.0	(10, 100]	77
25010	ОН	Westlake	SB Eightyone	3.0	(10, 100]	32
25011	ОН	Westlake	Sangria y Tapas Bar & Restaurant	4.5	(100, 1000]	146
25012	ОН	Westlake	Savannah Bar & Grill	3.5	(10, 100]	12
25013	ОН	Westlake	Siam Orchid	4.0	(0, 10]	10
25014	ОН	Westlake	Stella Mia Ristorante	4.0	(10, 100]	71
25015	ОН	Westlake	Stonehouse Grill	3.5	(10, 100]	39
25018	ОН	Westlake	Subway	4.5	(0, 10]	3
25017	ОН	Westlake	Subway	2.5	(0, 10]	3
25016	ОН	Westlake	Subway	1.0	(0, 10]	7
25019	ОН	Westlake	Sweet Basil Neapolitan Style Pizzeria	4.0	(100, 1000]	116
25020	ОН	Westlake	Sí Señor Mexican Restaurant	3.5	(10, 100]	91
25021	ОН	Westlake	TGI Fridays	2.5	(10, 100]	33
25022	ОН	Westlake	Taco Bell	3.5	(10, 100]	17
25023	ОН	Westlake	Texas de Brazil	3.5	(10, 100]	88
25024	ОН	Westlake	Thai Spice	4.0	(100, 1000]	161
25025	ОН	Westlake	The Cheesecake Factory	3.0	(100, 1000]	147
25026	ОН	Westlake	The Fountain Cafe & Grille	4.5	(10, 100]	52
25027	ОН	Westlake	The Rusty Barrel	3.5	(10, 100]	63
25028	ОН	Westlake	Time Warp Bar	4.0	(10, 100]	16
25029	ОН	Westlake	Vicki's Diner & Deli	2.5	(0, 10]	9
25030	ОН	Westlake	Vieng's Asian Bistro	3.0	(100, 1000]	111
25031	ОН	Westlake	Viva Fernando	4.0	(10, 100]	11
25032	ОН	Westlake	Wendy's	2.5	(0, 10]	7
25033	ОН	Westlake	Whistlestop Restaurant	3.0	(0, 10]	8
25034	ОН	Westlake	White Oaks	3.5	(100, 1000]	110
25035	ОН	Westlake	Yard House	4.0	(100, 1000]	264
25036	ОН	Westlake	Zoup!	3.5	(10, 100]	22
25037	ОН	Westlake	the taverne of westlake	2.0	(10, 100]	15
25038	ОН	Wickliffe	Bakers Square	2.0	(0, 10]	3
25039	ОН	Wickliffe	Burger Nuts	3.5	(0, 10]	4
25040	ОН	Wickliffe	Casa Di Vino	4.5	(0, 10]	7
25041	ОН	Wickliffe	Dino's III	3.5	(10, 100]	40
25042	ОН	Wickliffe	Eastside Saggy's	3.5	(0, 10]	3
25043	ОН	Wickliffe	Giuseppe's Pizza & Subs	4.5	(10, 100]	33
25044	ОН	Wickliffe	Heart 'n Soul Restaurant & Baked Goods	4.5	(0, 10]	6

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	state	city	name	stars	binned_review_count	review_count
25045	ОН	Wickliffe	Kate's Bar & Grill	4.5	(0, 10]	3
25046	ОН	Wickliffe	Kickstart Grille	3.0	(0, 10]	3
25047	ОН	Wickliffe	Lino's	3.5	(0, 10]	10
25048	ОН	Wickliffe	Mario's Tap House	2.5	(0, 10]	8
25049	ОН	Wickliffe	Normandy Catering	4.5	(0, 10]	3
25050	ОН	Wickliffe	Papa Joe's Submarines	4.5	(0, 10]	10
25051	ОН	Wickliffe	Petti's Pizza & Restaurant	3.5	(10, 100]	14
25052	ОН	Wickliffe	Pizza Hut	2.0	(0, 10]	4
25053	ОН	Wickliffe	The Greek House Grille	4.0	(10, 100]	45
25054	ОН	Wickliffe	Willowick Restaurant & Lounge	4.0	(0, 10]	4
25055	ОН	Willoughby	Al Dente Pizzeria	1.5	(0, 10]	3
25056	ОН	Willoughby	Applebee's Grill + Bar	2.5	(10, 100]	24
25057	ОН	Willoughby	Arabica	3.5	(10, 100]	37
25058	ОН	Willoughby	Arby's	2.5	(0, 10]	3
25059	ОН	Willoughby	BRIM Kitchen + Brewery	3.5	(100, 1000]	122
25060	ОН	Willoughby	Ballantine	3.5	(10, 100]	92
25061	ОН	Willoughby	Barrio	4.0	(10, 100]	38
25062	ОН	Willoughby	Beal's Pickles 'n' Pints	4.0	(10, 100]	40
25063	ОН	Willoughby	Best Pizza & Sandwiches	4.0	(0, 10]	6
25064	ОН	Willoughby	Big Cheese Pizza	4.0	(0, 10]	8
25065	ОН	Willoughby	Bob Evans	2.0	(10, 100]	27
25066	ОН	Willoughby	Bottega Bistro	5.0	(0, 10]	4
25067	ОН	Willoughby	Bruegger's Bagels	3.5	(0, 10]	4
25068	ОН	Willoughby	Buffalo Wild Wings	3.5	(10, 100]	29
25069	ОН	Willoughby	Bumpers Bar & Grill	3.5	(10, 100]	24
25071	ОН	Willoughby	Burger King	2.0	(0, 10]	3
25070	ОН	Willoughby	Burger King	1.0	(0, 10]	8
25072	ОН	Willoughby	Burger Nuts	3.0	(10, 100]	24
25073	ОН	Willoughby	Burgers Beer & Breakfast	2.0	(0, 10]	5
25074	ОН	Willoughby	Burgers-N-Beer	3.0	(10, 100]	50
25075	ОН	Willoughby	CJ's Cafe	4.0	(0, 10]	6
25076	ОН	Willoughby	Cafe Europa and Bistro	3.5	(10, 100]	36
25077	ОН	Willoughby	Cannon Deli	3.5	(0, 10]	9
25078	ОН	Willoughby	Capps Pizza	3.0	(0, 10]	4
25079	ОН	Willoughby	Charlotte's Ice Cream	4.0	(0, 10]	3
25080	ОН	Willoughby	Chick-fil-A	4.0	(10, 100]	17
25081	ОН	Willoughby	Chipotle Mexican Grill	1.5	(10, 100]	62
25082	ОН	Willoughby	Coach House	2.0	(0, 10]	4
25083	ОН	Willoughby	Cocos Locos	4.5	(10, 100]	78
25084	ОН	Willoughby	Courtyard Cleveland Willoughby	3.0	(10, 100]	12
25085	ОН	Willoughby	Cracker Barrel Old Country Store	3.0	(10, 100]	25

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	state	city	name	stars	binned_review_count	review_count
25086	ОН	Willoughby	Craggy Bogland's	4.0	(10, 100]	24
25087	ОН	Willoughby	Crepes In the City	4.5	(10, 100]	82
25088	ОН	Willoughby	Dairy Queen	3.0	(10, 100]	13
25089	ОН	Willoughby	Damons Grill	2.0	(0, 10]	3
25090	ОН	Willoughby	Dave's Cosmic Subs	4.0	(0, 10]	3
25091	ОН	Willoughby	Denny's	3.0	(10, 100]	20
25092	ОН	Willoughby	Dino's Restaurant & Banquet Center	3.0	(0, 10]	8
25093	ОН	Willoughby	Domino's Pizza	3.0	(0, 10]	10
25094	ОН	Willoughby	Don Tequila Mexican Restaurant	2.5	(0, 10]	9
25095	ОН	Willoughby	Eat'n Park	2.5	(10, 100]	18
25096	ОН	Willoughby	Erie Street Station	4.5	(0, 10]	3
25097	ОН	Willoughby	Firehouse Subs	3.5	(0, 10]	3
25098	ОН	Willoughby	Frank & Tony's	2.5	(10, 100]	22
25099	ОН	Willoughby	Freshly's	4.0	(10, 100]	34
25100	ОН	Willoughby	Gavi's Restaurant	4.0	(0, 10]	5
25101	ОН	Willoughby	Hardee's	4.0	(0, 10]	4
25102	ОН	Willoughby	Helen's Sunrise Cafe	3.5	(0, 10]	3
25103	ОН	Willoughby	HoneyBaked Ham	4.0	(0, 10]	5
25104	ОН	Willoughby	Hong To Chinese Restaurant	3.5	(10, 100]	23
25105	ОН	Willoughby	Hook & Hoof	4.5	(10, 100]	64
25106	ОН	Willoughby	Hot Diggity Dogs	3.0	(10, 100]	11
25108	ОН	Willoughby	IHOP	2.5	(10, 100]	20
25107	ОН	Willoughby	IHOP	2.0	(0, 10]	5
25109	ОН	Willoughby	JT's Diner	4.5	(10, 100]	48
25110	ОН	Willoughby	Jersey Mike's Subs	4.5	(10, 100]	26
25111	ОН	Willoughby	Jet's Pizza	4.0	(10, 100]	14
25112	ОН	Willoughby	KFC	2.5	(0, 10]	3
25113	ОН	Willoughby	Kleifelds Restaurant	4.0	(10, 100]	50
25114	ОН	Willoughby	Lost Nation Sports Park	3.5	(0, 10]	9
25115	ОН	Willoughby	Lure Bistro	3.5	(10, 100]	98
25116	ОН	Willoughby	Manhattan Deli Bar & Grille	3.5	(10, 100]	59
25117	ОН	Willoughby	Marco's Pizza- Willoughby	3.5	(0, 10]	5
25118	ОН	Willoughby	McDonald's	1.0	(0, 10]	4
25119	ОН	Willoughby	Molta Bella Pizza	3.5	(0, 10]	8
25120	ОН	Willoughby	Mr. Chicken	4.5	(0, 10]	4
25121	ОН	Willoughby	Mullarkey's Irish Pub	3.0	(0, 10]	9
25122	ОН	Willoughby	Nickleby's Roundbar	4.0	(10, 100]	41
25123	ОН	Willoughby	Olivor Twist	3.5	(10, 100]	60
25124	ОН	Willoughby	Panda Chinese Restaurant	3.5	(10, 100]	17
25125	ОН	Willoughby	Panera Bread	2.0	(10, 100]	14
25126	ОН	Willoughby	Panini's Bar and Grill	3.5	(10, 100]	40

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	state	city	name	stars	binned_review_count	review_count
25127	ОН	Willoughby	Papa John's Pizza	3.0	(0, 10]	4
25128	ОН	Willoughby	Peking Chinese	3.0	(10, 100]	22
25129	ОН	Willoughby	Peppino's Pizza	3.5	(0, 10]	3
25130	ОН	Willoughby	Pizza Booyah	4.5	(10, 100]	13
25131	ОН	Willoughby	Pizza Hut	3.5	(10, 100]	11
25132	ОН	Willoughby	Pranzo!	4.0	(10, 100]	40
25133	ОН	Willoughby	Pulp Juice and Smoothie Bar	4.5	(0, 10]	6
25134	ОН	Willoughby	Red Robin Gourmet Burgers	3.0	(10, 100]	56
25135	ОН	Willoughby	Schlotzsky's	3.5	(10, 100]	18
25136	ОН	Willoughby	Shogun Japanese Steak House	4.0	(10, 100]	25
25137	ОН	Willoughby	Sol	3.5	(100, 1000]	104
25138	ОН	Willoughby	Spirits In Willoughby	4.0	(0, 10]	9
25139	ОН	Willoughby	Steak 'n Shake	2.5	(10, 100]	41
25140	ОН	Willoughby	Steak on a Stone	2.5	(10, 100]	19
25141	ОН	Willoughby	Subway	3.5	(0, 10]	8
25142	ОН	Willoughby	Sugar Bowl	4.5	(10, 100]	15
25143	ОН	Willoughby	Taco Bell	1.5	(10, 100]	19
25144	ОН	Willoughby	Taco Local	3.5	(100, 1000]	108
25145	ОН	Willoughby	Texas Roadhouse	3.5	(10, 100]	76
25146	ОН	Willoughby	The Brickhouse Tavern	4.0	(0, 10]	6
25147	ОН	Willoughby	The Morehouse Willoughby	3.5	(10, 100]	74
25148	ОН	Willoughby	The Pierogi Palace	4.5	(0, 10]	8
25149	ОН	Willoughby	The Wild Goose	4.0	(10, 100]	89
25150	ОН	Willoughby	Waffle House	3.0	(10, 100]	19
25151	ОН	Willoughby	Wendy's	4.0	(0, 10]	7
25152	ОН	Willoughby	What About Bob's Subs	3.0	(10, 100]	20
25153	ОН	Willoughby	Willoughby Brewing Co.	3.5	(100, 1000]	190
25154	ОН	Willoughby	Young's Sushi	4.0	(10, 100]	73
25155	ОН	Willoughby	Yukiho Japanese Restaurant	3.5	(0, 10]	9
25156	ОН	Willoughby	Zoup!	4.0	(0, 10]	8
25157	ОН	Willoughby Hills	Becky's Bistro	3.5	(10, 100]	23
25158	ОН	Willoughby Hills	Brindaliers Bar and Grill	4.0	(10, 100]	16
25159	ОН	Willoughby Hills	Dynamic Duo Beverage & Deli	4.5	(10, 100]	12
25160	ОН	Willoughby Hills	Firehouse Grille & Pub	3.5	(10, 100]	42
25161	ОН	Willoughby Hills	Golden Mountain Restaurant	3.5	(10, 100]	20
25162	ОН	Willoughby Hills	Local Tavern	4.0	(10, 100]	76
25163	ОН	Willoughby Hills	Mario Fazio's Italian Restaurant	4.5	(10, 100]	95
25164	ОН	Willoughby Hills	McDonald's	2.0	(0, 10]	4
25165	ОН	Willoughby Hills	Mr Wonderful's Chicken & Waffles	3.5	(0, 10]	10
25166	ОН	Willoughby Hills	Pub 91	3.5	(0, 10]	5
25167	ОН	Willoughby Hills	Spectators Sports and Grill	3.5	(0, 10]	4

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	state	city	name	stars	binned_review_count	review_count
25168	ОН	Willoughby Hills	The Lobster Pot	3.5	(10, 100]	50
25169	ОН	Willoughby Hills	The Pub on Six	4.0	(0, 10]	3
25170	ОН	Willoughby Hills	The Wright Place	3.0	(10, 100]	23
25171	ОН	Willoughby Hills	Tony's Pizza & More	3.5	(0, 10]	10
25172	ОН	Willowick	Amore Ristorante & Pizzeria	4.0	(10, 100]	46
25173	ОН	Willowick	Anthony's Family Restaurant	4.0	(10, 100]	34
25174	ОН	Willowick	Arby's	4.0	(0, 10]	4
25175	ОН	Willowick	Burger King	3.5	(0, 10]	3
25176	ОН	Willowick	Burgers 2 Beer	4.0	(0, 10]	8
25177	ОН	Willowick	Cala's Pizzeria	3.5	(10, 100]	23
25178	ОН	Willowick	Chin's Pagoda Chinese & American Restaurant	3.0	(10, 100]	18
25179	ОН	Willowick	China Mountain II	3.5	(0, 10]	8
25180	ОН	Willowick	Christine's	4.0	(0, 10]	3
25181	ОН	Willowick	Cleveland Burger Company	3.5	(10, 100]	20
25182	ОН	Willowick	Cleveland Pizza Co	3.5	(10, 100]	41
25183	ОН	Willowick	Hundred Flowers	3.0	(10, 100]	12
25184	ОН	Willowick	Imperial Super Buffet	3.5	(0, 10]	9
25185	ОН	Willowick	KFC	2.5	(0, 10]	3
25186	ОН	Willowick	Li Garden Restaurant	4.0	(10, 100]	16
25187	ОН	Willowick	Little Caesar's Pizza	4.0	(0, 10]	6
25188	ОН	Willowick	Mama Primozz Pizza	3.5	(10, 100]	14
25189	ОН	Willowick	McDonald's	2.0	(0, 10]	4
25190	ОН	Willowick	Milano Bar and Grill	1.0	(0, 10]	3
25191	ОН	Willowick	Mr Hero	3.5	(0, 10]	7
25192	ОН	Willowick	Papa Joe's Subs & Pasta	3.5	(0, 10]	8
25193	ОН	Willowick	Peties Family Restaurant	4.0	(10, 100]	52
25194	ОН	Willowick	Revolution Pizza	4.5	(10, 100]	33
25195	ОН	Willowick	Sports Fanatics	3.5	(10, 100]	11
25196	ОН	Willowick	The Cabin of Willowick	4.0	(10, 100]	49
25197	ОН	Willowick	The Garage Grill & Bar	1.5	(0, 10]	3
25198	ОН	Willowick	Tuscan Italian Restaurant and Pizzeria	5.0	(0, 10]	6
25199	ОН	Willowick	Wendy's	1.5	(0, 10]	6
25200	ОН	Woodmere	B Spot	3.5	(100, 1000]	471
25201	ОН	Woodmere	Bowl Of Pho	4.0	(100, 1000]	179
25202	ОН	Woodmere	Bravo! Cucina Italiana	3.0	(10, 100]	77
25203	ОН	Woodmere	Chipotle Mexican Grill	2.5	(0, 10]	10
25204	ОН	Woodmere	Davis Bakery & Delicatessen	4.0	(10, 100]	42
25205	ОН	Woodmere	DeGaetano's Village Square Pizza	3.5	(10, 100]	34
25206	ОН	Woodmere	Firehouse Subs	4.0	(10, 100]	11
25207	ОН	Woodmere	Fleming's Prime Steakhouse - Woodmere	3.5	(10, 100]	83

	state	city	name	stars	binned_review_count	review_count
25208	ОН	Woodmere	McDonald's	2.0	(10, 100]	33

Problem 19: (10 points)

Subsequent questions involve the `data-sets/yelp_academic_dataset_review.csv` data. Let's investigate the relationship between the data for businesses remaining in `business_data` (we subset the data in a previous problem, you can use it as is) and the `data-sets/yelp_academic_dataset_review.csv` data. One thing that would interesting to know is, does it appear that we have all the reviews for each business? For example: if we see a business in `business_data` has 14 reviews, does the review table contain all 14 of those reviews?

To determine whether this is the case:

- Import the data-sets/yelp_academic_dataset_review.csv data.
- Subset the reviews data to only contain records for businesses in the business data table.
- Use groupby () to get the counts of reviews for every unique business (by business id) in the reviews data.
- Perform an appropriate join to the business_data table to create a DataFrame containing three columns:
 - 1. business id
 - 2. number reviews the number of reviews for that particular business you found in the review table,
 - 3. review_count the number of reviews listed in the food_establishments table
- Create a new column <code>abs_diff</code> containing the absolute value of the difference in the number of reviews for each business in <code>business</code> data and number of reviews from the reviews table.
- Create a plot that helps us see the extent of any disparities between the number of reviews in the review data and the number of reviews stated in the business id table.
- Use the <code>describe()</code> method to numerically describe the extent of any disparities between the number of reviews in the review data and the number of reviews stated in the <code>business</code> id table in the review <code>count field</code>.

```
In [49]: # Import the review data
         review_data = pd.read_csv(fpath + '/data-sets/Final/yelp_academic_dataset_review.cs
         v', parse dates = True)
In [50]: #Filtering out bad records with bad date values
         f190 = review data.date.str.len() == 10
         review data = review data[f190]
In [51]: # Changig the required data types
         review_data['date'] = pd.to_datetime(review_data['date'])
         #review_data['funny'] = review_data['funny'].astype('int')
         #review data['useful'] = review data['useful'].astype('int')
In [52]: #Creating additional date derived variables
         review data["review date"]
                                     = review_data["date"]
         review_data["review_weekday_name"] = review_data["date"].dt.weekday_name
         review data["review month name"] = review data["date"].dt.month name()
         review_data["review_year"] = review_data["date"].dt.year
         review data["rec count"] = 1
```

```
In [53]: #Re-ordering all variables in review data
                            review_data = review_data[['business_id','review_id','user_id','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','review_date','rev
                            w_weekday_name','review_month_name','review_year','cool','funny','useful','stars','
                             text', 'rec_count']]
In [54]: review data.info()
                           <class 'pandas.core.frame.DataFrame'>
                            Int64Index: 5996996 entries, 0 to 5996997
                           Data columns (total 13 columns):
                           business id
                                                                                                object
                                                                                             object
                           review id
                           user id
                                                                                             object
                           review_date
                                                                                             datetime64[ns]
                           review_weekday_name object
                           review_month_name object
                           review_year
                                                                                              int64
                                                                                               int64
                            cool
                                                                                                float64
                            funny
                                                                                                float64
                           useful
                                                                                                float64
                           stars
                                                                                                object
                           text
                           rec count
                                                                                                 int64
                            dtypes: datetime64[ns](1), float64(3), int64(3), object(6)
                           memory usage: 640.5+ MB
In [55]: review_cnt = review_data.groupby('business_id').agg({'stars':'count'})
                            review cnt = review cnt.reset index()
                            rename dict = {'stars':'number reviews'}
                            review_cnt.rename(columns = rename_dict, inplace = True)
```

```
In [56]: df19 = business_data[['business_id', 'review_count']].merge(review_cnt, how = 'inne
    r', on = 'business_id')
    df19['abs_diff'] = abs(df19.review_count - df19.number_reviews)
    df19[df19.abs_diff > 0].sort_values(by = 'abs_diff', ascending = False)
```

Out[56]:

	business_id	review_count	number_reviews	abs_diff
93781	kVbRrRpjrwn6v8cj49g1-Q	61	18	43
16032	e2yH2Fcelu_bXBdTlxYURA	73	54	19
45630	iK6JSnglDcToad8SBl04Fg	45	28	17
10027	t_RIEKVtzYRG9LcMhVnPPg	39	24	15
53136	dAsnC9InN3qI_niiA6s8Tw	38	25	13
46630	I3joBBpkq0ib11dKUpKMAw	495	504	9
32860	MhtNlpw9KRA-6rn1jnMAzg	37	28	9
112326	9K9hjIFH2yANsG7dgliu3g	15	7	8
53001	GXMHepGKq110ceePNE5zDg	9	1	8
12665	x_qKFuYPAAO28E7tQGXZaQ	42	35	7
24290	k28a4W7MX1x0rMXNu34x_A	22	15	7
96567	9zvglUorc3YOpN3SyJQKZw	39	32	7
112981	IWN2heYitkg-D4UdqfxcMA	1883	1889	6
109313	RSOinkOUpxm0mGw1IWr4Xw	427	433	6
149612	RESDUcs7fliihp38-d6_6g	7866	7861	5
123822	r7fY9a3MuDemdGRKcHuG5w	162	167	5
56310	O7uA5Rlo4vIVoh7KthEEXg	405	400	5
85419	1JhZg69WZGD3yB3Mq_hH7Q	11	6	5
25470	JDZ6_yycNQFTpUZzLIKHUg	1941	1936	5
139507	W2D2eDrP9hGXWYli-4QJdg	51	55	4
46152	qj4KHXGgwyutHpvWRLI87g	5	1	4
60234	wcLX8aToZJF4AR-qkpl2Ag	505	509	4
95634	A4NuAm6le1aYOtFQc_rb0Q	162	166	4
13546	xm-LPu0bPl5cZ2PYKS9zDQ	115	111	4
57224	3l54GTr8-E3XPblxnF_sAA	1958	1955	3
109895	ByFMv3p5X1aNeZhU61rDcA	1869	1872	3
76568	48vnBJK0B95JpO0_OMrTQw	329	332	3
129454	9zqrKGYRdt1_IZZT5FWf2g	54	51	3
116454	FaHADZARwnY4yvlvpnsfGA	3481	3484	3
57670	6s2ja_EFlsu0Pa2qFe4Jeg	101	98	3
78068	U7KyjkjJzrHx4vYx7rcNeA	6	9	3
53840	TTFbaLplwrjFx7YIL2pbJA	440	437	3
146629	Vm9JL0HBKPivBEk47iW_Xw	9	12	3
96811	k9LOFnY_Dn0ctUU0UYBNdA	160	157	3
126105	hU-I172AdpBahJqP-GTSbA	22	25	3
87075	DYAorbxOyubUB_wtQRCdug	802	805	3
116033	XXW_OFaYQkkGOGniujZFHg	3048	3045	3

	business_id	review_count	number_reviews	abs_diff
108704	9PYn-k2Tk1BV_ns8UvG7nA	118	115	3
55615	5ma1OUQWy_Ds80xUiP7JPQ	434	431	3
87768	w2gXToEf9ba78Qfmp42YRQ	132	135	3
136122	GMeJ77rluBJQRq6KTMIZMQ	70	67	3
18115	7W-7QBBU67ax2nERXrDM1Q	239	236	3
17083	6HJmFDFw775Jlbw_4wl4vg	138	141	3
121638	a2gWIG98DdT2nZBqNeYU9g	139	142	3
16874	lwyD6R_DBUnRFoggFwqESg	33	30	3
16583	_iEl9sCLsvXEFHUWPvgsAg	303	300	3
103954	7qSJAE_Z6guAGWCtOC7Yag	167	170	3
64609	4V_fxpk6DK9SNphlPsDQPw	279	276	3
61787	osJfovV0FGBDo4n7eD4-AQ	196	199	3
81176	e90bsqWf18yyz_HogGZdAg	76	79	3
131010	dXQ2zo174AZeHOtRoHwqEQ	159	162	3
35393	Lau3N654yNyWdllybea1uA	573	575	2
58675	FzzKllzJSagomPPisoKS5w	83	85	2
42782	QC_KrEEakL-baYfnTXw2FQ	144	146	2
127195	K-uQkfSUTwu5LlwPB4b_vg	1808	1806	2
41426	jmrNqcRZZp8b7onKTOSOtA	14	12	2
73369	tSwiWYoDBZajtwy3A_ooKg	125	127	2
59409	-LG_SXZrWLTnfSXRPZQvzA	4	2	2
120151	u-67zd1ImTv3EEr5kldWrA	920	918	2
48499	pJ8zPg3yi6s_EaXSxvu_4w	14	16	2
22803	eEnNw3_hBvxcFHyr23kAuA	2175	2177	2
108345	ujHiaprwCQ5ewziu0Vi9rw	4091	4089	2
41564	19rzu0wtv24oe7ffxVmh_A	21	23	2
136256	0xo3bFKKQQmKjykYAJwH5g	98	96	2
28026	ypF6t8fcEV8f_B4IMfH93Q	19	21	2
120780	awl4hHMfa7H0Xf0-ChU5hg	2313	2315	2
72602	-XrG8PgkJ4XehqWOnV1-TA	231	229	2
107983	dOGLTIMqqQZn8xxBRsU6CQ	474	476	2
120897	YuiSB5tzeajHQRmTAaF7hQ	26	28	2
103284	ZOmf-3NN4Z59b2Fw6VAM7g	739	741	2
17586	0onlwbCKK8HRw1itKvbWng	138	136	2
28396	Pbh0WNaKvkyI7HYwQMEWpA	160	162	2
73980	ap5VGUkChf8BFAqtBYAPEw	10	12	2
64994	yNPh5SO-7wr8HPpVCDPbXQ	1814	1812	2
35344	Rud4J5Hsjn_jjU9IaQ0Dpw	200	202	2
23983	eDdhZZBHEi-TRWQ2xhRl5g	449	447	2
146773	ndQTAJzhhkrl1i5ToEGSZw	594	592	2
105002	h3oVNfP_zoNydnaHiHrzZA	3	5	2

	business_id	review_count	number_reviews	abs_diff
151511	CbQyKClyv_jNJ-VBprKyFg	23	25	2
24128	Xg5qEQiB-7L6kGJ5F4K3bQ	1746	1748	2
100370	S4411fmD5hqMdaMdSVUPLw	11	13	2
109252	DjrN4zlAbJZBbRQxvAUElA	247	249	2
127881	pDcU-HEnNr631YpwxAqYsQ	180	182	2
119145	fKlr9qNoV37WQJwQ826POg	1067	1069	2
47343	HJkDo-5SwrsTszg_zfE86w	42	40	2
146187	ZU7bsnwKPTZHeMTYPv4a8w	95	97	2
127554	NY80DkkCfEl198JmwtO4pA	1541	1543	2
8203	FFVAGNz3fQ7Mdsupm5uzMw	259	257	2
135441	Aal_qHle30fu8XCQqL2V3w	95	97	2
35827	-glp6d-bORik5SODmr4ubw	8	10	2
151607	vkQrlXyeAn4GrCnrk2haRw	309	311	2
108953	13KW8P5n1jAxxHB7BI_obg	393	395	2
47647	dGuVYsA5DMCm_TjSbX6x7g	428	426	2
74306	qL1YWy7auU6K7H68WQxNqw	10	12	2
145777	qqlgj3vpc54Bab5xWfwONA	168	166	2
18607	P-AKuEib7cHKFAtKkK2auw	128	126	2
95252	LNGBEEelQx4zbfWnlc66cw	2155	2157	2
49968	vUgCHg2pWUrbg_xrJZz6Lg	196	194	2
136878	XwJ6fZRVbxQYRsryy4-qDw	458	456	2
52402	mRbwm1Hkg6LjkcX_P3WWZA	66	64	2
113903	L2p0vO3fsS2LC6hhQo3CzA	1698	1700	2
139031	iSQwKRrLYYi-dl2PpJmJJg	516	518	2
93714	QPCPa-LasXaj61vHyVRf5Q	37	39	2
113936	HgdFqAvK31fB9sgBdOzo9g	1135	1133	2
53630	wMOioy2KAol2AnpbqwxdOg	291	289	2
105713	sxNMGQwUuaDsviR4BtuX0g	581	583	2
124101	6kkxRV8H9SQLybj0xnEbMw	833	831	2
53452	KVqWA98XZwGhJ3YbFNi0vw	349	347	2
92168	d_L-rfS1vT3JMzgCUGtiow	1552	1554	2
80470	0ldxjei8v4q95fAplei3Lg	904	902	2
109405	-z-xTLkeSN_WpRayIlh_iQ	206	208	2
92440	149rGuvlq4Zm4nUylf4GZw	9	7	2
92480	BORPULADzZV6_LJZzcsywQ	832	834	2
23589	DLcgZ180-gdPsHoU78xQDw	227	225	2
125251	QXV3L_QFGj8r6nWX2kS2hA	1635	1633	2
14438	_BELd09Ppp0aMUTW-ltJfw	245	247	2
68617	X3CzpPYqS5rS-k3Gxhcs7Q	15	13	2
92816	iH6heFdMwPXk9GIO6PwUvA	363	365	2
131369	2c9Vptks_vowLgVUMnCgjw	410	412	2

	business_id	review_count	number_reviews	abs_diff
139806	4Q-P8lbk9d5zO_ireZFRPQ	170	168	2
104176	qPAv21KB74TbuOQ_S37A	8	10	2
91086	lsHmnOZNlsKnEDsNmT-5_Q	355	357	2
138226	i_96cvjJo5mgcepHmGvl_A	46	44	2
103978	TBBeSHTGuaK9Jv09j3iDuA	80	82	2
50172	kbTdQKw4P0oo6XQVc07A	121	123	2
66525	da17_EW7GaYZWw1Z1JKSmw	150	148	2
143052	pPI44XATcnF1bWtkQHk3SQ	10	12	2
107331	cTZmf7B-4yciMc1WKiCVOA	848	850	2
28848	HQcel0uvg7N7KfhHJChfSQ	1024	1022	2
80079	LWgaRojEN8a-V6yxORo7yQ	199	197	2
122209	PsdWWQE_9GrfmCNfz2yW4g	112	114	2
107150	pCWg4B0R5gauQR4SJ9VDmw	235	233	2
142826	2QEfTceTxlQUEQtZ-VuJqQ	11	13	2
54527	Xe9Za61rO8QdbU1U0Mm1CA	157	159	2
99794	6Mu2xsqytDoYyRozYG_F0Q	9	11	2
94560	-ot5Brxh-QQURT4J-ntavA	7	5	2
81170	IT_4EEIbv6Ox1jBRMyE7pg	1338	1340	2
122885	nzbQXU2x7O8oucKGthUT3g	233	235	2
126266	i69tc6p5oH5dF2WZYueebQ	28	26	2
58747	kd1VNJdd92T2eQ4hqvYQ5A	250	248	2
59210	SGZdTJOU90cbC-F_hi3cdQ	20	18	2
15880	1CqDdPrrb0xvQpgu7fhl5w	210	208	2
15845	i41qYGIC0t5s0TuRBQz04Q	131	133	2
118954	XWxYHSld0T2TfANwt1KmqA	292	294	2
146677	m506zjQ67j0msTfANwB6RA	329	331	2
113261	pik4ebdFa0UcUhnNkivFcg	778	776	2
148973	9gL3XDqhLwU0PKyXlcDj0w	3	5	2
5616	jLxeBgWhLRbII2ACkgH1Sg	568	570	2
60472	DHECYVi7nBWtoUOgF0hsgQ	189	187	2
110513	rOtfTlyW7sR4IYAqyUU-1g	77	75	2
148340	RzEpt3Ts0TB6q_7ix4v7cg	265	267	2
26107	LU95pQcsRJknWgOu9YZmDQ	6	8	2
110664	GZONBn0K1yp2aaD-l8debQ	491	489	2
110666	QJatAcxYgK1Zp9BRZMAx7g	2735	2737	2
150252	kXap93zCzFTkmHW3PrOIKw	266	268	2
43010	X3ec1nuK2BmOULN4Kk3Fgw	502	504	2
101818	yhgUyctWczUN13MinNgZ3w	1519	1521	2
150989	-wpNQQYtqImQ9Rcwhgm9iw	134	136	2
19973	rbYh1ue3YpdOt1GIUs2YBg	318	320	2
3469	_u1Bq7QsgMUXSMex8QHqLQ	375	373	2

business_id		review_count	number_reviews	abs_diff
128863	JIETwXSEGIHMNyxZVEnNKQ	785	787	2
4765	nJUsNx-LKAZ0FHGm9mnmaw	233	235	2
151355	xE9DP3UoA4BkhDpW7WH68Q	26	24	2
62327	HHu9VyoA7RB1AR2NIFiT7g	139	137	2
76796	olmCDBoMF-EhN8U2livBSg	913	911	2
149127	u_vPjx925UPEG9DFOAAvFQ	3241	3243	2
45197	u-SJ5QUwrNquL9VnXwl8cg	1219	1221	2
25906	labRbltRXwr6T0c5HHlaPA	311	309	2
20150	duw-3Aj7gAKbQG-isS5UtQ	460	462	2
76916	hihudQRriCYZw1zZvW4g	3731	3733	2
3823	TCoBE_BkDRrK0bWrh5VueQ	1107	1105	2
111118	zrTGcb83AsfyVTMrsCa65A	510	512	2
45091	qXXVNNf8QU6UghJJGpo7uA	152	154	2
62094	8USUyleN39rurnqCn5cA0w	178	180	2
115373	W6s1BQa6N3mU6UBTv_KqSw	362	360	2
20409	gG9z6zr_49LocyCTvSFg0w	1437	1435	2
39160	q3dJQtwZQrrurNT-1bNKgQ	1247	1249	2
57103	BUdPHseUBhZ_3wGW-GX7Mg	207	205	2
79407	B3omTXI0eiBC7nCv_WXg	173	175	2
149558	rD32POdlhGN9eR8aUxl-3A	145	143	2
46323	zU2OIDxJetn9sJIPcEQw5w	208	206	2
134773	F1CCt2Gl6qpOB73mXi5anA	339	341	2
75628	C8D_GU9cDDjbOJfCaGXxDQ	1341	1343	2
6539	bpRo8L8dkhgbJhdIKa9mwA	1464	1466	2
36987	FMIwjG47DRY7vbpVW9A3uQ	111	113	2
6440	N5B7OBTyNGgwU_Y2fwNcyw	952	950	2
86023	eoyvbnRYQe-z85e8Rc6vAg	461	459	2
41135	roR1_DDIMk7mhi5_R6XVKA	398	396	2
19405	LYWMVX8IRMfliUTm4jS-pw	75	73	2
147737	NwZ39qdA06ROFIIMjAVPgw	185	187	2
128326	WbJ1LRQdOuYYlRLyTkuuxw	1294	1296	2
19314	hx-oJMNnweYqE5ybU8aiSg	84	82	2
75972	jDQIKfsfJU3M8M6n0ESKFg	171	169	2
81665	u6Eo7MaNpQgAuVAOAN2xiQ	234	232	2
41199	UV2Jt8slktGu14gLZeNCjA	1021	1019	2
100939	DsdbXQAOsEynMlVRxXYOXw	26	24	2
100953	xfWdUmrz2ha3rcigylTV0g	1398	1396	2
82995	-7Mshr3cv5kpO9RRwiATdA	21	23	2
129876	bG-JFEQjr0pAcgdz7eHkZw	99	97	2
101428	BSDKbSLFO3CP-uhfcuUCkA	426	427	1
103930	pKk7jCFIm96qDdk0laVT2w	1135	1136	1

business_id		review_count	number_reviews	abs_diff
101042	F65UAC9crwFePN69UqKRJw	200	201	1
104952	Cpb142L849ilMzgiSR4a0w	231	230	1
103884	1Nq7GxjvEDgAJxBeOjR_9Q	102	103	1
101596	CqsJjzullOVp29m0lk5Q	145	144	1
101503	ygFc5TWwhYjt0-sJvu-JzA	58	57	1
100971	p744xYzmol_KMloeGoJhZw	69	68	1
103976	fvDF6pqWKRaQIZPNYaX2TA	8	7	1
103847	nbQH8MXjxqsDzHRNTZ8esQ	288	287	1
103842	JXAMnijxRrW-jXHGvDJzzg	100	99	1
101398	PpQNZsScx6h9EgqlCcac9Q	8	9	1
103828	na4Th5DrNauOv-c43QQFvA	3030	3031	1
100509	lqtlUTDv8QWSZJn1WWnz2Q	65	64	1
104936	vsFFbN71ehRCp46KeR5RdQ	812	811	1
100276	vE_hWF21gmg7CWZX7H6HXg	96	95	1
100529	IKq4Qsz13FDcAVgp49uukQ	617	616	1
99980	Vbal-AZnu2w6NttlKfdjDg	408	409	1
100655	1NZNZHnGE4-FLZmU6xp3oQ	32	33	1
104599	e5S5E2iGFs0fU1XMPmhWBw	172	171	1
104598	VbD412ssoCtz6RklpRtLug	98	99	1
101237	fS9a8AGrcwWPf_9vfn5wPQ	370	369	1
104580	lqSiTBjvEfu_f-RvCLmgMA	28	29	1
101200	3MIRTycBs8oTVeO2lf1pJw	11	10	1
101134	Q4pg6LcRCYMlml-5jg4Z5Q	306	307	1
104469	V-aCFCkkRyakP6SelfG9-A	187	188	1
104708	Qx36_IVL-nPThPRzk9VGag	175	176	1
101261	nuGAd48mGzVLIJLPkST0BA	312	311	1
104814	-wDNRL4lm1UgeFLG9KcrjQ	155	154	1
104850	YnyDTK7LzdgSZiS9rGta0A	70	71	1
101605	aCkAmpBmEJCeRBJ5_Q2D-Q	57	58	1
100671	1CR2ddUcjYYwRd5JLtiRrw	575	576	1
101107	Ger5Otp_edlljHqlLgE40Q	141	142	1
104439	O7UMzd3i-Zk8dMeyY9ZwoA	350	351	1
101309	DeT8yTpLCnqu-Ew7Lyzahg	60	59	1
104276	UN_6ebslv5cxdDmZAX3ivQ	353	354	1
101319	-RiMCNsD7rsPPnNcv0Ls0A	9	10	1
99968	Crhm6oKCj7raPlakwltbVQ	112	113	1
104127	9FYiJfDv7yonO7jjTHt0MA	3	2	1
101331	37Ici93XwfQjbY24KK7IMA	14	15	1
104056	g6HKSMyz-bzmLJvsJILOJQ	127	126	1
100518	H-WYHSzXPWS9Avj0W6SRpg	356	355	1
103995	Ju6Dq1mZ6jZ7W136j1oB1w	5	6	1

	business_id	review_count	number_reviews	abs_diff
101362	Wq_BQBy777zuCtm6KyDEyw	112	113	1
103483	6tOrCPiu-ZtC2JdAy9kBhw	274	275	1
101700	XyYjj-Kb4EU5hYygpHbKrA	35	36	1
101723	dJXFp02urBN7pMd5329D_g	35	36	1
103008	N8ArHOgRDI8wOJIOZaEHyg	315	316	1
102791	MJjTgjRZJLnU0VHF1TeMGQ	34	35	1
102755	_KCvY2g9mMgcBSrVjCS0FA	58	59	1
100354	rDhYdFjECYwOrXsKQJckoQ	154	155	1
				•••
40166	W2Vis19kUa7kP6GkSvJ9zQ	40	41	1
40320	fThrN4tfupIGetkrz18JOg	122	121	1
40355	vNwj8u1KbnKPQFMTd3TDWw	121	122	1
40427	dJh41AATAMF8g1XT2ezxAg	21	22	1
40432	IMuab5iHgV3unEuHpVmrjQ	103	104	1
40551	XroX0F7KpBnwULEMI9ehTg	10	9	1
40586	fv6aY1YT9GJPl3WKshwaGA	31	30	1
40626	9XfA7NMNKkGbH7yXc8G75A	309	310	1
42005	dzKDFiWLkspVBJKGfT0M2g	561	562	1
42079	IsAFh6bBhpzPimD1im6ZXg	4	5	1
42173	upgjUq616Yz1IvAvysDLWA	200	199	1
43648	9AEmY0f_QMmueXQoKsQfKw	29	28	1
43133	yQab5dxZzgBLTEHCw9V7_w	1732	1731	1
43140	bXGADvexLZ7sAiAuTfhYiA	11	12	1
43179	DNfQHjQ5K6XPFXEke9Frxw	26	27	1
43184	xCL38K0oPgK3ydzg4CrvKg	295	294	1
43257	zIfAda0cl3F1zqd91qMiQg	22	23	1
43336	XZ7eQLjyGXf6y69UT4SGhg	313	312	1
43373	-yVblN2EqKWRBE9jfjWm-A	29	28	1
43455	9aJlj4OYWa9BPA7PNYdgMQ	54	53	1
43642	NWINMG_eBIvDjCcHK46eDQ	251	250	1
43662	C2C37kwDZ332qwlx_Cg4nw	18	17	1
42882	ly_c2QkgTp7b2Jhsm5U2-A	24	23	1
43678	SUd3lyEN7n5OYEGyt_U5lg	402	401	1
43696	TD3IX1KfkJ3X-llJ9sLunA	37	38	1
43860	OotqWluPJcRC3iXA7v5xwg	142	143	1
43880	mlHwA-JpSi7hU3xnEu7aQw	28	29	1
43923	8yb5gF97PCDE5zbK19lwpg	58	59	1
43947	kZZInTbRMDKngBAly26dhg	11	12	1
43980	G6vkzaoXXPxETLC62GQ1Fg	5	6	1
44036	mQkzRJ2I0LGG6Cv4EbEjEQ	29	30	1
44038	ZKLbz2o9M9P1jXaWONEY0w	36	37	1

business_id		review_count	number_reviews	abs_diff
43094	XiVgLfA5gdF1VkIW_YZlqw	12	13	1
42827	dO0KCBji2gSR503kp_e4-g	84	85	1
42179	RzXSaz2BjPBHeJzEIUKoQw	116	117	1
42461	onhURB5hb6tKukQNPcBADw	23	24	1
42220	Nw96innm3adw0prGQyqWmA	42	43	1
42250	lwm8h8f2ZfRflUOfSF4_ww	13	12	1
42315	XIOtdDY_7VNieWYyMyic7Q	42	43	1
42317	_DOjM_VGK-ojgjoY6esOdg	77	78	1
42323	zXvtouoaOsL0Bp0udugAjQ	190	189	1
42391	qmYPTISRWmOV6RW_QuV4yw	100	101	1
42406	Qeie5-8-S_hLPk7_ujpajw	221	220	1
42423	WszxJV-LR9GSIpo6wGzZmg	32	31	1
42459	7VAcRL0y7Arthf7YkDnrDg	16	17	1
42508	vK1_qKEG7zHvjiTOsN0CRg	852	851	1
42810	osu1j_Lg8R9brpuMMn3a3A	1064	1063	1
42582	oKvlZL1ETK-Zejk5u76_Hg	29	30	1
42698	ms4nFq8B56RHkFViRaAiWQ	175	176	1
42707	jjmirGh6JBd366rUACEw	49	50	1
42759	-av1lZl1JDY_RZN2eTMnWg	855	854	1
42773	TW26bF6l2gJFkKRj0PemMg	12	13	1
42776	eigkQ_PuRON8Se265NqQDQ	71	70	1
42789	JHyv6TwbNflcjpos8_espA	138	137	1
42794	QnfAHUr5-HTiaA5-va3glQ	223	224	1
42798	DqFODQFzEacXRVxk2leG0Q	57	58	1
49780	MxZU1ww5v7gBYaCY4HHyzA	56	55	1
49810	Qze5W5OmOzZIFRK-O2G_yw	37	36	1
49851	HoKXKkW8oC9q8XnjKLulRw	499	500	1
49874	1veVZUawy7lhlc5oDpRRQA	399	400	1
56347	iJ4JaJWm_0ZH4VBiGzad1Q	80	81	1
56433	HHvO4MgBFabsmlInou6viQ	69	70	1
56516	eLFfWcdb7VkqNyTONksHiQ	1784	1785	1
56623	G4PqbK9aigbAynfrjs38Tw	37	36	1
56642	-BgJB7tjU6S2V1uu-MHrUg	10	11	1
56649	Kk6k9cs4rXfDkC9Fjv0MjQ	55	54	1
56899	8Qs6f026h6sU6MAzL7JJjg	119	120	1
56916	Lt0748v5KSK-z98Pi7rBRA	10	9	1
56939	dUffgo9Lh_Vk9TLuFR5ywg	525	524	1
57000	RwnePLERBTS_xtyV7Rx1AQ	232	231	1
57104	wrEUVqnG3-UhgqBQlEeIWA	22	21	1
57131	mcExQV14NsdC5lB9lfl-vg	6	7	1
57136	GH2y7HPcSwEWD4xd9gQSEw	57	56	1

business_id		review_count	number_reviews	abs_diff
57215	rmRqq0CEqEeoVu3DVnibjw	298	297	1
57238	FwmfaGVvXP8EwXo2zyyhwA	36	37	1
57245	SlumMeDPSsuoakY3RP2kVA	8	9	1
57279	-gRkfQ7CGqz0V3Y1wPeB2w	6	5	1
57313	JIEy8FH6123SJBoNwG235g	174	173	1
57326	PJ-VbAtlOso1dqd2frQqqg	88	87	1
57334	IJ4Xbz-LK32oW7SDtMwiQw	35	36	1
57382	dWFUKB_HPBIE87AFBHEb_w	1059	1058	1
56131	LjPGiMl6NMnmbO4UY9FbwA	8	9	1
56093	xv8nVVu2KTtTnAFsxdSpqQ	126	127	1
56020	6lgkTtACpJR5Kijkc050KQ	36	37	1
55291	FD-yD1cDNANGQaPaQVNgxw	46	47	1
54835	hmltG5aNY43I0NVMGTmPHw	166	165	1
54851	KVpvE6pOPM9KMvak4HFsNg	502	503	1
54853	3jQxp12LlxMxG3H62hKsuw	20	21	1
54870	02BXFKzu1rgaYulNGYvi6g	234	235	1
54959	wuDNjKgBla-12y7nF7BXcw	56	55	1
55123	wAQr_GVUNFSvqFfr3cC9kA	66	67	1
55208	I4Oi_pyZBSZtAVjZHoTFWg	61	62	1
55246	xxGB4cW9N5WrGKc5QYgYLw	18	19	1
55274	xW2TgfNgerHMbwSluey82Q	21	22	1
55401	YF4QJ_j-PM7cMZja6K1MwQ	752	751	1
55991	ID5wWJ9C7G0hfbQilvlfxA	598	597	1
55503	SbDCw4JBxkGxVbhF6vvw7A	17	16	1
55532	Z9LM42qQzrbneB8bn76Msw	37	38	1
55638	rEdep0txAwxCw4iMlCWlmQ	17	16	1
55642	rXDFjyh3VrnxhHP4tUttSw	69	70	1
55664	RNdcUG1sCTLdUo8dEC9NJw	51	50	1
55666	ePkjSWKMgurJx_ld3XS10A	63	62	1
55737	qdtfcYMROGZVvYcE9F23yg	118	119	1
55838	fw88hjCFSAFJvP1472oS4g	4	3	1
55974	uMVDGJn9jvLXSbqOJwvHHw	37	38	1
57405	qDbVUkKMLtRqSDcKgLTx1A	70	69	1
57442	2P0j97A8aZsMpbPkD1tgzw	17	18	1
57466	0FUtlsQrJI7LhqDPxLumEw	1884	1885	1
59169	fFg1SoA4tWEkkqddnOjyiQ	12	13	1
58767	P3ufH0wm0jvulnrinDpaAA	260	261	1
58894	xdGCcG3CZFkEzTBMxSi5RQ	76	77	1
58903	cnfYugAYBFKgwDCTAVdViA	243	242	1
58945	awRJ5YGb102rlPVktyPA-A	106	107	1
58980	ylJuo-bYlcEvzJZUVFXblQ	20	21	1

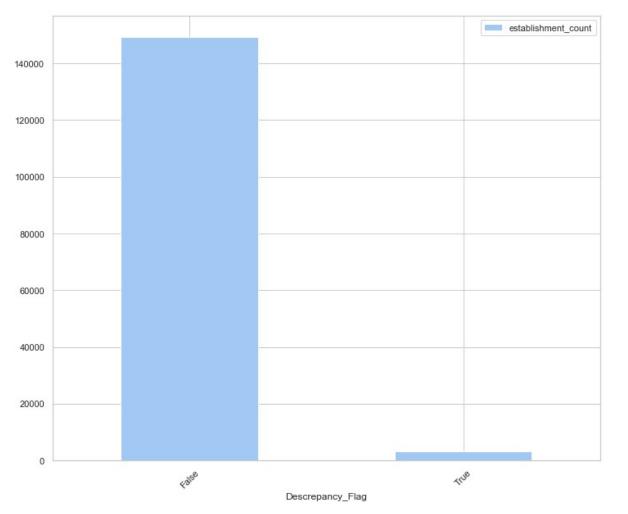
	business_id	review_count	number_reviews	abs_diff
58981	hM3TwxTe_XWvdXZUiFkZ9g	141	140	1
59039	V7LeK0mPA_qk1I7hApgtyw	156	157	1
59064	7rhFSZcztxch_3_k3RiRKQ	4	3	1
59115	WtLUaAAZyD6vyFXO3xLrsw	15	16	1
59339	MhrqAyRa9ZvDKYundBhUbA	74	75	1
58734	dtE30mN71gKEABv3Xuo5nw	5	6	1
59365	57_msr8gjNakjGO-1f6B_g	207	206	1
59402	J1RDyyPxhioqm8c_fi4P4Q	948	949	1
59867	x5hieVj5VhyFlqpUv3M92A	6	5	1
59876	cH6GzRVyFEaJQxvojJ8pbQ	20	19	1
59898	WF2DG7R_a0EflFqWlxzUXQ	62	63	1
60101	yhYhK7tb3la5KcLlVzG5Lw	539	540	1
60268	9tLCuUmw3Tlco-tKPGkIWQ	121	120	1
60380	m4IncWtifTQkXub5jUdNzQ	96	95	1
60421	m3XOBJyAJIWEJJUpngVLLw	174	173	1
58748	wpnLPAnkMEb1NpC3xiD_qg	641	640	1
58612	orenJYBrGyfEupJI9zclkw	32	31	1
57527	w3j40hXJUHt53vlO_q4vHA	115	114	1
57814	9evRrJHVWghiv16EOUg6zA	72	71	1
57535	q1EJ1BT_xoorCoWarXiwuw	195	196	1
57602	hxUxeY8DG9lhyjCVo_s-pw	433	432	1
57640	9G0ETTCB7RUhbUZJUPm3Tg	60	59	1
57643	axX1hO_lEn9C-na3mMN4Aw	167	166	1
57687	nuNraialluYc9vDZg7XfRA	6	5	1
57692	M9fOuiesoUSaouOqNQ3U2w	149	150	1
57708	ilFcMHXGNDz8jbx_4H-xVQ	43	44	1
57752	fuW-VCynECpKukrm-9nxdg	649	650	1
57774	Qayz6avNEPNS6Q5UThYHCQ	285	286	1
57935	qty8hfjvyD_W92z-Yxe_ig	31	32	1
58563	hyzzZdFi_RKXEGogcEAakg	98	97	1
57938	ZoPMFdyhcQhPJQO-WCfA	13	12	1
57956	aZMUdPld420PxZA87w3U_A	25	24	1
58222	PgVITpf4u_B-JARV8-NCIA	36	37	1
58244	DfgZlNgKwBvCpA_0alumXw	2130	2129	1
58386	q10IXjtZqao66bVtPExTXw	262	263	1
58400	q2ZwmOSKMojaW6VmmtuRSg	9	10	1
58446	_skmB-CPcMOJKqeuFMWrFg	29	30	1
58526	rR8V4T5Px9ICnYLEJF225A	27	28	1
58550	ZyEjstbyzJkc1bHec_4xhA	14	15	1
54834	a19a59qthJCAGBVGozRvmw	165	166	1
54798	VaKXUpmWTTWDKbpJ3aQdMw	357	356	1

business_id		review_count	number_reviews	abs_diff
54721	avVDxUmOC0sM1fxVVCm_Qw	13	14	1
51492	MO-C3o6DFqLBK1Z1qA-f4g	16	17	1
51016	LnRn6ECHdqTeoFF0c8FKYw	153	152	1
51215	2xjMLX8vNpQEisRKPgbP_w	200	199	1
51223	Z9Ss9LhBN2zVNQw9DpjVbQ	66	67	1
51262	whAwdYVty-jSNRhrYT2zHA	1358	1357	1
51271	z2JTN5PXemCRGtGbKiOvZw	60	61	1
51296	QDYS5AXM5-Z2UWEJMSVx1w	64	65	1
51330	HyzHidtQXC4JIULtSbk3NA	121	120	1
51418	z2Yivr-C0K0H2sLNXvnZyg	323	324	1
51445	3BA3Ro7GcZb1N_PQW4m1dQ	87	88	1
51568	H5Y6o9H4rtxbHJFgLql6Fw	169	168	1
50950	jdwV9pjT3ErFfN6PxG91gQ	42	43	1
51694	eStn1HCGNcKiLXc0pfvZxg	622	623	1
51703	5-qYtBErnLUh02n9z2Verw	114	115	1
51708	wztnDEbXD1VNvHMMPj2tMw	46	47	1
51709	emCed5sCDrXVrBKVo6tcUQ	49	48	1
51722	fCkfyCr1gFczZC816a9pOA	161	162	1
51743	7h08ecPN5bcW1Gp6UQZxNQ	301	302	1
51877	nlxHRv1zXGT0c0K51q3jDg	66	67	1
51907	TJstASXrfYFnVz5-zfSeWA	6	5	1
51953	-MKWJZnMjSit406AUKf7Pg	171	172	1
50978	pt8AjHbXuoXd1cjQO-gjPQ	10	11	1
50819	nt6lCG6H7imdDih8QGKEbQ	9	10	1
52014	3dw6xhzG08htY5HcL2OjeA	186	187	1
50428	-1mjlwXWil1uzy-8nGkdkw	13	14	1
49888	WoYyi1JBh9v2GhFRoKhSVA	6	5	1
49935	K7IWdNUhCbcnEvI0NhGewg	6446	6447	1
49947	RWwvuTbnf3DleUSiFbUscg	41	40	1
50057	7aLHARfM2X9zNTuSWZJ8Hw	15	16	1
50240	rDMptJYWtnMhpQu_rRXHng	11	12	1
50271	wHq1efQVz17338k_aUOX3w	289	290	1
50302	WqXrmUVy5Ay3Scn4GPM9Ug	46	47	1
50391	yPiGrtNJc7j-OCPwUB2cDg	69	70	1
50415	2skQeu3C36VCiB653Mlfrw	499	498	1
50432	_kCjd-nD4lNXL2oGn-JhZA	80	81	1
50756	VodyCVoc3QUoEsi0rv0opg	50	49	1
50470	s73t5HCo06cZZLIRhxpp-w	20	19	1
50489	0nyM_mub7LxN6Dx7tYpMaA	342	343	1
50491	EN3j87O4VOsMHTCrcVt2pQ	60	59	1
50632	157Y-QIXWnqQra78_WfW5g	80	81	1

business_id		review_count	number_reviews	abs_diff
50647	Yxdx_xaYUb5mWXIIbwf64A	3	4	1
50666	A5ID3y2eREchEdMcvWPXBA	194	193	1
50668	N4BbelbQNgtUEEMutu9U3w	270	269	1
50729	wSBNzVkRzTVlnR95AFvYMg	133	134	1
50750	Lq9rYrwvWV5QDBYzq7MGHQ	417	416	1
51979	vOo-Cl3RvbPA-M2xaElfGg	34	33	1
52094	XmNK5aMbz8RiqT0FxWGw	89	88	1
54713	dQQS9BMNOZ6l0eBsP_fTiQ	7	8	1
54158	f-7sTbx8u7c9t1-r_Fdoow	234	233	1
53783	KGGiuMVEZE8Otj5qSAO45g	168	169	1
53813	FsCujpVh9Za2Dl5MlYLCxA	660	661	1
53817	ZBE-H_aUlicix_9vUGQPIQ	92	91	1
53818	8ChKflgrn7DpCily3o3L1Q	3	2	1
53825	d9GSAJHevoO0GODP7lpsKQ	6	5	1
53897	gE59d8Fyh8v7hoXb6KxZKg	11	10	1
54095	Wxxvi3LZbHNIDwJ-ZimtnA	3329	3330	1
54133	n-6NSy9JxV8qzNGlJ5OKYQ	71	72	1
54156	h2cPlifmtPD029q4sthRSQ	52	53	1
54416	hitpsDvCvgajUbSHxaUDlg	58	57	1
53573	-F4_kxPQaDTMGlGpJqFplg	93	94	1
54469	mM3o2evEq36fJvkUCe-BWw	128	127	1
54500	e1leCaO80qurC9LqQttQ0g	15	16	1
54536	U8UZEvttlegaDkHvABuflQ	21	20	1
54601	SEjyjYlMfFFzkHaru6JadA	458	459	1
54617	S5RLqt9XkvZxoTMKXuF-MA	185	186	1
54637	Ll9ad207UhzrcisJ2xmy0w	156	157	1
54651	3uLvazEZrRFoAz6YiXcQug	36	37	1
54675	G5BQqtg1jSAgiUSAlg_5sA	3	4	1
54678	F2-BtwaEuYO2kant2cPffg	186	187	1
53734	Bjn-GQg6hoUOkew7tTPcLA	66	67	1
53542	Pfi812k1E6TMnC1NRzH3Pg	527	526	1
52096	gBfPyzPRmeOaj3SdcIj0Rw	1134	1133	1
52821	hRUICEGFdoxa65QO16lcKg	48	47	1
52122	SxvKjtbq5qRIFoXrU8Bo9Q	226	227	1
52183	fGVZqXadtkQa9CN6dR6crw	22	23	1
52252	oPcWayqZRnMb2s7C9agCpw	75	74	1
52314	vLkKorA1gPS97Zj0_WKA0Q	289	288	1
52403	CWO8uizKGwTzZnLZGQCnGQ	122	121	1
52508	uF86ZhygpBEGr3CudNemYA	291	292	1
52510	OEnBuiez0un3EqtWjnWpSg	57	58	1

```
In [57]: df19[['review_count','number_reviews']].describe()
Out [57]:
                  review_count number_reviews
           count 152599.000000
                               152599.000000
           mean
                    34.755372
                                  34.756591
             std
                    113.296344
                                  113.296817
                     3.000000
                                   1.000000
            min
            25%
                     4.000000
                                   4.000000
            50%
                     9.000000
                                   9.000000
            75%
                    26.000000
                                   26.000000
            max
                  7968.000000
                                 7968.000000
In [58]: df19['Descrepancy Flag'] = True
          f19 = df19.abs_diff == 0
          df19.loc[f19,'Descrepancy_Flag'] = False
          df19.Descrepancy_Flag.value_counts()
Out[58]: False
                   149400
          True
                      3199
          Name: Descrepancy Flag, dtype: int64
In [59]: df191 = df19.groupby('Descrepancy_Flag').agg({'business_id':'count'})
          rename_dict = {'business_id':'establishment_count'}
          df191.rename(columns = rename dict, inplace = True)
          df191 = df191.reset index()
In [60]: df191
Out[60]:
             Descrepancy_Flag establishment_count
           0
                                        149400
                       False
           1
                                         3199
                        True
```

```
In [61]: df191.plot(kind = 'bar', x = 'Descrepancy_Flag' ,rot = 45)
Out[61]: <matplotlib.axes._subplots.AxesSubplot at 0x1b4081c6978>
```



Describe what you see in the plot and the output from describe(). Does it appear that we have the all or most of the reviews for every business in the $business_data$ table?

Written Answer:

There is insignificant descrepancy between 2 data sets for captured review counts. And Yes, we seem to have the most of the reviews captured for all businesses.

Wrapping up

In this section of the Final Project, you will be focused on analyzing the Yelp users and the reviews they leave. Unlike the previous part, you will not be guided through each step and must decide how best to proceed.

Your analyses will involve the following 3 tables:

- yelp_academic_dataset_review.csv contains a subset of Yelp reviews with a business_id indicating what business the review is for and a user_id to identify the user leaving the review.
- yelp academic dataset user.csv contains a subset of Yelp users identified by user id
- yelp_academic_dataset_business.csv contains information about a subset of businesses having at least one Yelp review and every distinct business has a unique business_id. This is the table that we have been analyzing in Problems 1-19.

```
In [62]: # Import the user data table
    user_data = pd.read_csv(fpath + '/data-sets/Final/yelp_academic_dataset_user.csv')
    user_data = user_data[['user_id', 'name', 'yelping_since', 'review_count', 'average_sta
    rs', 'compliment_cool', 'compliment_cute', 'compliment_funny', 'compliment_hot', 'compli
    ment_list', 'compliment_more', 'compliment_note', 'compliment_photos', 'compliment_plai
    n', 'compliment_profile', 'compliment_writer', 'cool', 'elite', 'fans', 'friends', 'funny
    ', 'useful']]
```

In [63]: df_metadata(user_data)

Out[63]:

	Column_Name	Column_Datatype	Row_Count	Null_Count	Null_Ratio_Pct
0	user_id	object	1518169	0	0.00
1	name	object	1518169	476	0.03
2	yelping_since	object	1518169	0	0.00
3	review_count	int64	1518169	0	0.00
4	average_stars	float64	1518169	0	0.00
5	compliment_cool	int64	1518169	0	0.00
6	compliment_cute	int64	1518169	0	0.00
7	compliment_funny	int64	1518169	0	0.00
8	compliment_hot	int64	1518169	0	0.00
9	compliment_list	int64	1518169	0	0.00
10	compliment_more	int64	1518169	0	0.00
11	compliment_note	int64	1518169	0	0.00
12	compliment_photos	int64	1518169	0	0.00
13	compliment_plain	int64	1518169	0	0.00
14	compliment_profile	int64	1518169	0	0.00
15	compliment_writer	int64	1518169	0	0.00
16	cool	int64	1518169	0	0.00
17	elite	object	1518169	0	0.00
18	fans	int64	1518169	0	0.00
19	friends	object	1518169	0	0.00
20	funny	int64	1518169	0	0.00
21	useful	int64	1518169	0	0.00

Problem 20: Time Based Analysis (20 points)

The 'review_data' table contains a column 'date' representing the date the review was created.

Chose \mbox{ONE} of the questions below and use the ${\tt review_data}$ to answer.

- 1. Are more reviews posted during certain days of the week? What about certain months of the year? What patterns can you find about when reviews are posted? Draw a suitable plot.
- 2. Do reviews made on certain days of the week or certain months of the year tend to be higher/lower rated? What relationship can you find between the stars ratings of a review and when the reviews was posted? Draw a suitable plot.

In [64]: # Your code here
 df_metadata(review_data)

Out[64]:

	Column_Name	Column_Datatype	Row_Count	Null_Count	Null_Ratio_Pct
0	business_id	object	5996996	0	0.0
1	review_id	object	5996996	0	0.0
2	user_id	object	5996996	2	0.0
3	review_date	datetime64[ns]	5996996	0	0.0
4	review_weekday_name	object	5996996	0	0.0
5	review_month_name	object	5996996	0	0.0
6	review_year	int64	5996996	0	0.0
7	cool	int64	5996996	0	0.0
8	funny	float64	5996996	0	0.0
9	useful	float64	5996996	2	0.0
10	stars	float64	5996996	0	0.0
11	text	object	5996996	1	0.0
12	rec_count	int64	5996996	0	0.0

In [65]: f'I will prefer to answer question 1: Are more reviews posted during certain days o
 f the week? What about certain months of the year? What patterns can you find about
 when reviews are posted? Draw a suitable plot '

Out[65]: 'I will prefer to answer question 1: Are more reviews posted during certain days of the week? What about certain months of the year? What patterns can you find a bout when reviews are posted? Draw a suitable plot '

In [66]: review_data.head(5)

Out[66]:

	business_id	review_id	user_id	review_date	review_w
0	iCQpiavjjPzJ5_3gPD5Ebg	x7mDliDB3jEiPGPHOmDzyw	msQe1u7Z_XuqjGoqhB0J5g	2011-02-25	
1	pomGBqfbxcqPv14c3XH-ZQ	dDl8zu1vWPdKGihJrwQbpw	msQe1u7Z_XuqjGoqhB0J5g	2012-11-13	
2	jtQARsP6P-LbkyjbO1qNGg	LZp4UX5zK3e-c5ZGSeo3kA	msQe1u7Z_XuqjGoqhB0J5g	2014-10-23	
3	elqbBhBfEIMNSrjFqW3now	Er4NBWCmCD4nM8_p1GRdow	msQe1u7Z_XuqjGoqhB0J5g	2011-02-25	
4	Ums3gaP2qM3W1XcA5r6SsQ	jsDu6QEJHbwP2Blom1PLCA	msQe1u7Z_XuqjGoqhB0J5g	2014-09-05	

```
In [67]: review_wkday_summ = review_data.groupby('review_weekday_name').agg({'rec_count':'su m'})
    review_wkday_summ = review_wkday_summ.reset_index()

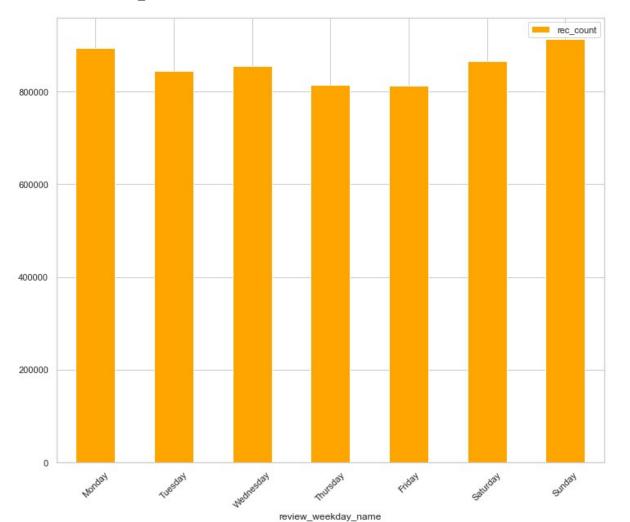
review_wkday_summ['review_weekday_name'] = pd.Categorical(review_wkday_summ['review_weekday_name'], ['Monday','Tuesday','Wednesday','Thursday','Friday','Saturday','Su nday'])
    review_wkday_summ = review_wkday_summ.sort_values(by='review_weekday_name')
    review_wkday_summ
```

Out[67]:

	review_weekday_name	rec_count
1	Monday	893652
5	Tuesday	844903
6	Wednesday	854330
4	Thursday	813336
0	Friday	811893
2	Saturday	865009
3	Sunday	913873

```
In [68]: review_wkday_summ.plot(kind = 'bar', x = 'review_weekday_name', y = 'rec_count', ro
t = 45, color = 'orange')
```

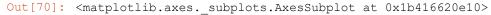
Out[68]: <matplotlib.axes._subplots.AxesSubplot at 0x1b5d10806a0>

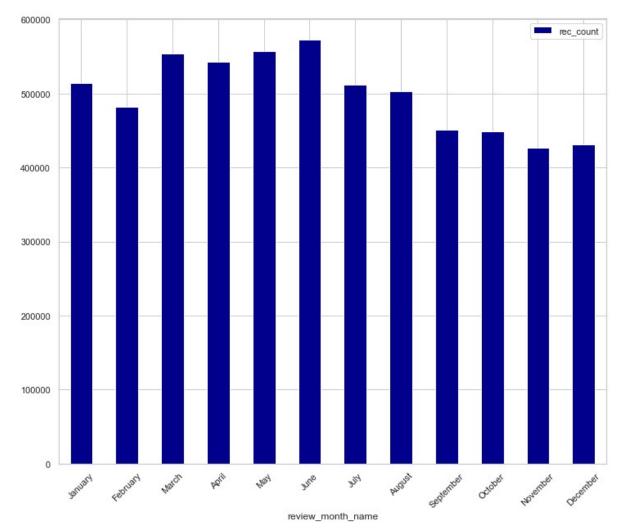


Out[69]:

	review_month_name	rec_count
4	January	513964
3	February	482581
7	March	553642
0	April	543280
8	May	556903
6	June	572744
5	July	512367
1	August	503599
11	September	450655
10	October	448738
9	November	426870
2	December	431653

```
In [70]: review_month_summ.plot(kind = 'bar', x = 'review_month_name', y = 'rec_count', colo
r = 'darkblue', rot = 45)
```





Provide a brief explanation of your conclusions.

Written Answer:

- 1. Week Day Observations: Middle of the week from Tuesday to Friday tend to get less reviews. But on week-ends and surprisingly on Mondays, reviews seem to rise.'
- 1. Month Observations: There is a seasonality present here. Reviews tend to rise during summer months and go down from fall season to holiday season. Come January it again goes back up with exception of February where it goes down. This is interesting observation. February needs to investigated.

Problem 21: Text Based Analysis (20 points)

The `review_data` table contains a column `text` containing the full text of the review. Use these data to answer one of the questions below.

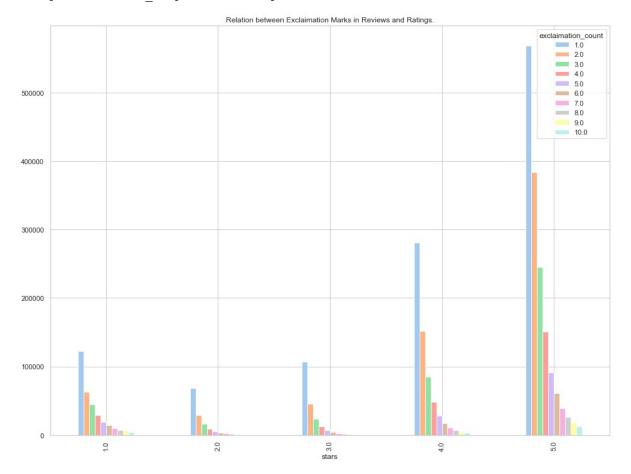
Chose ONE of the questions below and use the review data to answer.

- 1. Can you classify a review as having a *positive* or *negative* sentiment? If so, select five particular businesses (by business_id) and compare the business's average stars rating from the business_data to the proportion of reviews you have identified as having positive or negative sentiment for those particular businesses. Draw a suitable plot.
- 2. Do reviews with exclamation points seem to be either very highly rated or very low rated? Determine the stars distribution as a function of the number of exclamation points used in the review. Draw a suitable plot.

```
In [106]: # Your code here
    f'My choice is to answer Question 2.'
    review_data['exclaimation_count'] = review_data.text.str.count('!')

In [113]: df21 = review_data.groupby(['exclaimation_count', 'stars']).agg({'rec_count':'count '}).reset_index()
    #review_data[review_data.exclaimation_count == 205].text
```

Out[114]: <matplotlib.axes._subplots.AxesSubplot at 0x1b6517cb7f0>



Provide a brief explanation of your conclusions.

Written Answer:

To showcase the sample relationship, I kept only that data which had 1 to 10 exclaimation marks. If time allowed I would prefer to analyze reviews with 0 exclaimation marks and extreme number of exclaimation marks. You can see the distribution of count in data shown below.

Presence of exclamation mark does not truly affect the review ratings. Its seems to be the reflection of reviewing styles of folks. Generally people consider using exclaimation marks as rude so lesser the better. And the data consistently reflects that in all stars ratings.

```
In [115]: df21.sort_values(by = ['exclaimation_count','stars','rec_count'], ascending = [False, False, False])
```

Out[115]:

	exclaimation_count	stars	rec_count
415	426.0	1.0	1
414	349.0	1.0	1
413	296.0	1.0	1
412	272.0	5.0	1
411	265.0	1.0	1
410	227.0	1.0	1
409	213.0	1.0	1
408	208.0	1.0	1
407	205.0	1.0	1
406	171.0	1.0	1
405	165.0	1.0	1
404	161.0	4.0	1
403	154.0	1.0	1
402	153.0	5.0	1
401	151.0	1.0	1
400	150.0	1.0	1
399	148.0	1.0	2
398	146.0	5.0	1
397	143.0	1.0	1
396	142.0	5.0	1
395	137.0	1.0	1
394	130.0	1.0	1
393	129.0	1.0	1
392	126.0	1.0	1
391	125.0	5.0	1
390	125.0	1.0	1
389	124.0	5.0	1
388	119.0	1.0	2
387	118.0	1.0	1
386	115.0	5.0	1
385	115.0	4.0	1
384	115.0	1.0	1
383	113.0	5.0	1
382	113.0	2.0	1
381	113.0	1.0	1
380	112.0	5.0	1
379	111.0	5.0	1
378	111.0	1.0	1
377	110.0	3.0	1
376	109.0	1.0	1

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	exclaimation_count	stars	rec_count
375	106.0	5.0	1
374	105.0	5.0	1
373	104.0	5.0	1
372	103.0	1.0	1
371	102.0	1.0	2
370	101.0	5.0	1
369	101.0	1.0	2
368	100.0	1.0	1
367	98.0	5.0	2
366	97.0	5.0	2
365	97.0	1.0	4
364	96.0	1.0	2
363	95.0	2.0	1
362	95.0	1.0	3
361	94.0	5.0	1
360	94.0	1.0	1
359	93.0	5.0	1
358	93.0	2.0	1
357	92.0	1.0	1
356	91.0	1.0	1
355	89.0	5.0	1
354	88.0	1.0	1
353	87.0	5.0	1
352	87.0	1.0	2
351	86.0	5.0	1
350	86.0	1.0	1
349	85.0	5.0	1
348	85.0	4.0	1
347	85.0	1.0	3
346	84.0	5.0	3
345	84.0	1.0	5
344	83.0	1.0	3
343	82.0	5.0	1
342	82.0	3.0	1
341	81.0	5.0	2
340	81.0	3.0	1
339	81.0	1.0	1
338	79.0	5.0	3
337	79.0	1.0	1
336	78.0	5.0	1
335	78.0	2.0	2

	exclaimation_count	stars	rec_count
334	78.0	1.0	4
333	77.0	5.0	2
332	77.0	1.0	2
331	76.0	1.0	3
330	75.0	5.0	2
329	75.0	1.0	2
328	74.0	5.0	4
327	74.0	1.0	4
326	73.0	5.0	2
325	72.0	5.0	3
324	72.0	4.0	2
323	72.0	3.0	1
322	72.0	1.0	3
321	71.0	5.0	2
320	71.0	1.0	6
319	70.0	5.0	3
318	70.0	4.0	1
317	70.0	1.0	6
316	69.0	5.0	3
315	69.0	2.0	2
314	69.0	1.0	5
313	68.0	5.0	2
312	68.0	4.0	1
311	68.0	1.0	4
310	67.0	5.0	2
309	67.0	4.0	4
308	67.0	2.0	1
307	67.0	1.0	2
306	66.0	5.0	2
305	66.0	4.0	1
304	66.0	1.0	3
303	65.0	5.0	4
302	65.0	4.0	1
301	65.0	1.0	6
300	64.0	5.0	3
299	64.0	3.0	1
298	64.0	1.0	8
297	63.0	5.0	5
296	63.0	4.0	3
295	63.0	1.0	7
294	62.0	5.0	2

	exclaimation_count	stars	rec_count
293	62.0	4.0	1
292	62.0	1.0	5
291	61.0	5.0	3
290	61.0	4.0	1
289	61.0	1.0	6
288	60.0	5.0	6
287	60.0	4.0	2
286	60.0	2.0	1
285	60.0	1.0	8
284	59.0	5.0	12
283	59.0	3.0	1
282	59.0	2.0	1
281	59.0	1.0	6
280	58.0	5.0	6
279	58.0	4.0	3
278	58.0	2.0	1
277	58.0	1.0	11
276	57.0	5.0	4
275	57.0	2.0	1
274	57.0	1.0	6
273	56.0	5.0	3
272	56.0	4.0	1
271	56.0	2.0	1
270	56.0	1.0	12
269	55.0	5.0	12
268	55.0	4.0	1
267	55.0	1.0	16
266	54.0	5.0	7
265	54.0	4.0	1
264	54.0	3.0	1
263	54.0	2.0	2
262	54.0	1.0	8
261	53.0	5.0	7
260	53.0	4.0	2
259	53.0	2.0	1
258	53.0	1.0	8
257	52.0	5.0	10
256	52.0	4.0	1
255	52.0	2.0	2
254	52.0	1.0	12
253	51.0	5.0	8

	exclaimation_count	stars	rec_count
252	51.0	4.0	3
251	51.0	3.0	1
250	51.0	2.0	1
249	51.0	1.0	16
248	50.0	5.0	11
247	50.0	4.0	2
246	50.0	2.0	1
245	50.0	1.0	18
244	49.0	5.0	12
243	49.0	4.0	4
242	49.0	3.0	1
241	49.0	2.0	2
240	49.0	1.0	22
239	48.0	5.0	12
238	48.0	4.0	5
237	48.0	3.0	2
236	48.0	1.0	25
235	47.0	5.0	12
234	47.0	4.0	3
233	47.0	3.0	1
232	47.0	1.0	26
231	46.0	5.0	17
230	46.0	4.0	2
229	46.0	3.0	1
228	46.0	1.0	29
227	45.0	5.0	21
226	45.0	4.0	2
225	45.0	3.0	1
224	45.0	2.0	3
223	45.0	1.0	22
222	44.0	5.0	19
221	44.0	4.0	2
220	44.0	3.0	1
219	44.0	2.0	4
218	44.0	1.0	30
217	43.0	5.0	29
216	43.0	4.0	4
215	43.0	3.0	3
214	43.0	1.0	35
213	42.0	5.0	19
212	42.0	4.0	6

	exclaimation_count	stars	rec_count
211	42.0	3.0	2
210	42.0	1.0	34
209	41.0	5.0	33
208	41.0	4.0	8
207	41.0	3.0	2
206	41.0	2.0	4
205	41.0	1.0	35
204	40.0	5.0	29
203	40.0	4.0	5
202	40.0	3.0	1
201	40.0	2.0	3
200	40.0	1.0	44
199	39.0	5.0	41
198	39.0	4.0	8
197	39.0	3.0	3
196	39.0	2.0	4
195	39.0	1.0	60
194	38.0	5.0	28
193	38.0	4.0	5
192	38.0	3.0	2
191	38.0	2.0	6
190	38.0	1.0	71
189	37.0	5.0	49
188	37.0	4.0	13
187	37.0	3.0	1
186	37.0	2.0	4
185	37.0	1.0	58
184	36.0	5.0	47
183	36.0	4.0	10
182	36.0	3.0	3
181	36.0	2.0	6
180	36.0	1.0	68
179	35.0	5.0	55
178	35.0	4.0	10
177	35.0	3.0	4
176	35.0	2.0	4
175	35.0	1.0	82
174	34.0	5.0	67
173	34.0	4.0	13
172	34.0	3.0	5
171	34.0	2.0	8

	exclaimation_count	stars	rec_count
170	34.0	1.0	86
169	33.0	5.0	85
168	33.0	4.0	16
167	33.0	3.0	10
166	33.0	2.0	8
165	33.0	1.0	106
164	32.0	5.0	106
163	32.0	4.0	24
162	32.0	3.0	8
161	32.0	2.0	6
160	32.0	1.0	97
159	31.0	5.0	92
158	31.0	4.0	26
157	31.0	3.0	4
156	31.0	2.0	14
155	31.0	1.0	120
154	30.0	5.0	146
153	30.0	4.0	21
152	30.0	3.0	7
151	30.0	2.0	15
150	30.0	1.0	118
149	29.0	5.0	163
148	29.0	4.0	29
147	29.0	3.0	5
146	29.0	2.0	25
145	29.0	1.0	150
144	28.0	5.0	186
143	28.0	4.0	34
142	28.0	3.0	14
141	28.0	2.0	13
140	28.0	1.0	174
139	27.0	5.0	218
138	27.0	4.0	56
137	27.0	3.0	15
136	27.0	2.0	26
135	27.0	1.0	210
134	26.0	5.0	281
133	26.0	4.0	63
132	26.0	3.0	16
131	26.0	2.0	25
130	26.0	1.0	235

	exclaimation_count	stars	rec_count
129	25.0	5.0	277
128	25.0	4.0	67
127	25.0	3.0	13
126	25.0	2.0	24
125	25.0	1.0	274
124	24.0	5.0	382
123	24.0	4.0	78
122	24.0	3.0	22
121	24.0	2.0	39
120	24.0	1.0	294
119	23.0	5.0	445
118	23.0	4.0	97
117	23.0	3.0	33
116	23.0	2.0	39
115	23.0	1.0	373
114	22.0	5.0	581
113	22.0	4.0	131
112	22.0	3.0	32
111	22.0	2.0	47
110	22.0	1.0	450
109	21.0	5.0	682
108	21.0	4.0	154
107	21.0	3.0	56
106	21.0	2.0	58
105	21.0	1.0	490
104	20.0	5.0	875
103	20.0	4.0	197
102	20.0	3.0	71
101	20.0	2.0	42
100	20.0	1.0	513
99	19.0	5.0	1034
98	19.0	4.0	241
97	19.0	3.0	71
96	19.0	2.0	84
95	19.0	1.0	652
94	18.0	5.0	1369
93	18.0	4.0	340
92	18.0	3.0	91
91	18.0	2.0	95
90	18.0	1.0	789
89	17.0	5.0	1777

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	exclaimation_count	stars	rec count
88	17.0	4.0	350
87	17.0		127
86	17.0	2.0	113
85	17.0	1.0	1005
84	16.0	5.0	2236
83	16.0	4.0	521
82	16.0	3.0	143
81	16.0	2.0	147
80	16.0	1.0	1118
79	15.0	5.0	2977
78	15.0	4.0	717
77	15.0	3.0	184
76	15.0	2.0	182
75	15.0	1.0	1428
74	14.0	5.0	3681
73	14.0	4.0	849
72	14.0	3.0	242
71	14.0	2.0	276
70	14.0	1.0	1642
69	13.0	5.0	5009
68	13.0	4.0	1246
67	13.0	3.0	328
66	13.0	2.0	302
65	13.0	1.0	2195
64	12.0	5.0	7042
63	12.0	4.0	1661
62	12.0	3.0	440
61	12.0	2.0	422
60	12.0	1.0	2816
59	11.0	5.0	9095
58	11.0	4.0	2295
57	11.0	3.0	603
56	11.0	2.0	579
55	11.0	1.0	3460
54	10.0	5.0	12954
53	10.0	4.0	3416
52	10.0	3.0	865
51	10.0	2.0	826
50	10.0	1.0	4401
49	9.0	5.0	18320
48	9.0	4.0	4775

	exclaimation_count	stars	rec_count
47	9.0	3.0	1239
46	9.0	2.0	1115
45	9.0	1.0	5837
44	8.0	5.0	26588
43	8.0	4.0	7295
42	8.0	3.0	1802
41	8.0	2.0	1597
40	8.0	1.0	7578
39	7.0	5.0	39212
38	7.0	4.0	10802
37	7.0	3.0	2751
36	7.0	2.0	2209
35	7.0	1.0	10176
34	6.0	5.0	60741
33	6.0	4.0	17237
32	6.0	3.0	4443
31	6.0	2.0	3506
30	6.0	1.0	14512
29	5.0	5.0	91263
28	5.0	4.0	28022
27	5.0	3.0	7001
26	5.0	2.0	5317
25	5.0	1.0	19492
24	4.0	5.0	151022
23	4.0	4.0	48760
22	4.0	3.0	12838
21	4.0	2.0	9140
20	4.0	1.0	29579
19	3.0	5.0	245062
18	3.0	4.0	85212
17	3.0	3.0	23299
16	3.0	2.0	16081
15	3.0	1.0	44368
14	2.0	5.0	383423
13	2.0	4.0	152084
12	2.0	3.0	45192
11	2.0	2.0	28750
10	2.0	1.0	63300

Problem 22: Analysis of Users (20 points)

Create a function that accepts at least a `user_id` as input. This function use the `yelp_academic_dataset_user.csv` data as well as the `yelp_academic_dataset_review.csv` or `yelp_academic_dataset_business.csv` tables as necessary.

The function should automatically process the data relevant to the `user_id` passed and create at least one plot annotated with relevant, interesting information about the user that best answers the following questions:

What types of businesses has the user reviewed? Summarize the users review ratings by business category.

Tip: It is OK if the results of your function are not very interesting for users with only a small number of reviews but your function should produce something reasonable for any <code>user_id</code> that may be passed.

categories	name	business_id	
Chicken Wings, Burgers, Caterers, Street Vendo	CK'S BBQ & Catering	AjEblBw6ZFfln7ePHha9PA	1
Insurance, Financial Services	Geico Insurance	bFzdJJ3wp3PZssNEsyU23g	3
Coffee & Tea, Food	The Coffee Bean & Tea Leaf	45bWSZtniwPRiqlivpS8Og	5
Food, Bakeries	Bnc Cake House	9A2quhZLyWk0akUetBd8hQ	6
Restaurants, Thai	Thai One On	6OuOZAok8ikONMS_T3EzXg	7

Gupta_Ashish_R64502_Final_Project

In [74]: u_data

Out[74]:

	user_id	name
0	IzIZwIpuSWXEnNS91wxjHw	Susan
1	XvLBr-9smbI0m_a7dXtB7w	Daipayan
2	QPT4Ud4H5sJVr68yXhoWFw	Andy
3	i5YitlHZpf0B3R0s_8NVuw	Jonathan
4	s4FoIXE_LSGviTHBe8dmcg	Shashank
5	ZcsZdHLiJGVvDHVjeTYYnQ	Stacey X Joe
6	h3p6aeVL7vrafSOM50SsCg	Lindsay
7	EbJMotYYkq-iq-v1u8wCYA	Joshua
8	nnB0AE1Cxp_0154xkhXelw	Mike
9	XoEnrhtJc2pcdlQ09d8Oug	Mitch
10	QDQTMYp2NocktWN5fHwflg	Andrea
11	Nq9WrJcCjQjHSoaUPZcPWg	F
12	SgYDjNCecPidsRB_su5-tw	Jessica
13	AUWHlxgZuL2h4svVLdUZaA	Alex
14	jlCxOfVf_Ff4YgGov8Tm1g	Kara
15	9u9a9JakFNHZksptLKPUrw	Teresa
16	NfE1uHFWzzMyXkgBeEuR1A	Danielle
17	RiBVI6UgLjfpA4EQ1SWDzA	Shawn
18	iK_Mfq3BLLxprw4Trgc4Bg	Love America
19	kPAyx-80ZIFKVy6uQ71I6Q	Matthew
20	UI_EvU0TUNeFJMNQlutA	Kim
21	bwPVGW1Mx0qmS_qNQ7xmYg	Ying
22	vLekYe1hK12NJc8PyxRjlg	John
23	bVBLhbpER9SQW9q2X-22dQ	Kaye
24	ibLa3RJIF8Ht0FKSXrw0TA	Matt
25	wplu6p4DYRxgHjMbqPlw	Tim
26	x-IMCiS9SBrnm8mD1WleMg	Sandra
27	TpE_T9jESeq-YtqWLyyACQ	Aisha
28	XZFIH0CO2Txp2OVynS0Zag	Dana
29	5_549BpxImfCvkQa9mybBA	Teresa
30	Dmso4_w1f4LSzAiyOLk0Gw	Joe
31	-10AAuTs4nHZwXKavpFPvw	Gary
32	f_Elxx59fEfpQB4MFn93Dw	Bob
33	BebqF5U9FdVShxZWPE-H-g	kerry
34	07UJ5zgua9ooAus8pWhmOA	Sarah
35	GEs3QLyGOAg3dWdntWiyLw	Rosemary
36	CIE-B2wYfJP-jFu5QO5Y3Q	Frank
37	G0VWbFLylH2wsH_UsxY82g	Chris
38	DcBtmk6yrU37JVPGPzIHnA	Tiffany

	user_id	name
39	34dHYkTKfB4xkl6FZbny3A	Jamie
40	zuiVfy6oJy_N86nw0Wv4Zg	I Don't
41	M6cAcVnXovRrbisRPeqmiQ	Temeika
42	wEUzxhyf7ngRbxS7jleqsQ	Aja
43	UVVpMz4kCJQcLgnrOOurig	Jon
44	d1p2M9zMuFPjvOWxhtFuNg	Dellene
45	LmY9SSZ5vE-GdDA-xjpKBw	Jared
46	O3M8V0BILOsInI_8Av71jw	Ronald
47	NtYXqEQzJfvwtR2YMhyfwQ	Gary
48	5ON3bSSwfWlgqxn3cvRQsQ	Brandon
49	aah4ei870eLL_IRD6r2Jxw	Zainab
50	czwv4Btham0aIPTvAFoNqw	Freddie
51	iYXxZBb2trmlozioddpL5g	Amber
52	vfDj6S7vWjjfy9jlkPTfeA	tim
53	9MwxXVTtRMMjg6szI4KyOA	Joanna
54	EbVuN0Ir0-hfvP7c5pfc3A	Vicky
55	-hXaShW_wicEAKBTgvTn4A	RJ
56	FrLvmygqsfjtHGRx4-poaA	Bruce
57	LSXqKE7u1gSWeCTdRUFhnA	С
58	sGT7S3mX3xRsK3Uz7ro4ug	Almee
59	ZNESGFYfd19Wknrl63li3A	Enrique
60	bRjwncjGol0ZEdezSKeAYQ	Lex
61	xjmpdJon4hgleU1P5Dj2Pg	Romeo
62	wBz7XZN7GeACCMnpAfgvSQ	Amanda
63	CrrG2ebNtvrj_68pltZIYw	Ron
64	JcKUiHAQ9cWGSO_qFbzlKw	Vai
65	-nnXVT844Hm9C4ENKx1N8A	Pat
66	SBjy6tJY4E8BHfAJ1PIS0w	Camam Imports
67	ZEAXQ8nctiAtj3UrD5S7qw	Laurel
68	mNzy0-YVTJTP2jqHR7zWwQ	Walter
69	D1PcuD9Owj4vwXflUnGijQ	Jorge
70	sv9iapOU9KNn0JFZcbbpUw	Curtis
71	VNw1NYRbwTvpjvLE0nEr_Q	
72	F32weszLxep45EJFuGAOLg	Linda
73	wE7dOLiZ9pwL2MyTccey-g	Wander
74	rMkz1mjevjl8xqrypZwHzw	Daniel
75	EetlHdBj-3SngJXHnaYYkg	Jason
76	B_hSPBljhld4K7LGy7aX_A	Nancy
77	Zz18uz08eyhMAkCJOkFDJQ	Brianna
78	E2R4WD4n7V1bGXAtLe8AHQ	Tem
79	Ykbb0q-NEtJxRK8UPfSURA	George

	user_id	name
80	GkAkJLmAZn9Tad3FvMwMog	Lisa
81	AAxJbjcq94NaqUJGFE362g	K
82	pTuhehStwZHOY5kDnUv_Wg	Hannah
83	B3xwUPXMICb7_5IEDlq4Uw	Yolie
84	Pc5vc0RuoCa8YU6hD-y3Ow	Anthony
85	dz1RKDdHziTy0uw7VtXeXQ	Tisharra
86	6OmHL9dwt5RmKwhGFgjvAA	Colleen
87	tGbVlKlZAPGrt3VjTn7gRA	Aaron
88	5QGHEDr0V-3e-5NOyZU9Og	Hans
89	RyZr6SqjWbFwFuPr6XIyOA	Valery
90	2hDTGXVbYb03qN1ZPzOnpg	Sassy
91	rdHS6gsuJ4OUuriCrlhiKw	Bahar
92	4M6GVM28NHQ7BhM9wG7p0w	Kylie
93	XuhHEe8fvBERIxEPKMalPQ	Ken
94	MeRX3U8rretG80nAOdTv-g	Deven
95	mN1eee0_j-dglmm57NAf3w	j
96	GT7EWBgsoWfy6OzrzDEBfg	Cee
97	-caPDnAfiSI_2QxrXX31tQ	Michael
98	DzJvholvspOEYW6wYqOs8Q	Hala
99	3fbHJCdv59Bg-sidM-Tw	Vaughn
100	6DoRkChoTpUYXOeNSnyJqQ	Emili
101	ctmN5z3jzsGuE475qto3qw	Во
102	bJPSSCDJjWA1e2mOeBPNtA	Samie
103	68qmfoSUXpPUaXz_VEyqzA	Mary
104	SMF7KR-F9TuGbLeWKHL4Yg	Roaming
105	-rP5prbJfKFIElNuvldIVw	K
106	wt86obnnh_w5wJxjErl3Kg	Laura
107	f-pgBX5PEBtG9KzsRNHEMA	Claire
108	5xK6mmJP5VQGp4C_6NIT2w	Clive
109	JpUsdHmP-viaSzcHkVRjAw	Daniel
110	7jKcsYvZPIAjPB-SrI7VZA	David
111	M8fiVDPrsDP5HKLkw1oR6Q	Michelle
112	JsQNRWZIJ7dSdveV3vANcw	Lee
113	D88RBhqHDxWVcm0UqSDJ6Q	Leah
114	vHRqK5Fi7Z-c_2sjJHtulg	Jen
115	EFCpxXKt0xi31OADlhLhAg	Kevin
116	letd1JFlrIHsBe2Vy-OFLw	J
117	BzghLxWwJiUwu5aAxW1eUA	Kathy
118	vOyNqYf1wile61IQNs_NPA	Rolando
119	4exKa-h8kDD9LrdXo_AeeA	Fairlight
120	ngZoUVDK7nFHB_HXBeQkiw	Isa

	user_id	name
121	vFi89PgxaZHH6RVmzq5Ecw	Lori
122	mRxqBHliQK1s480VO92-6Q	Jess Joe
123	3ns5Q8et87s_9Lg5TLc93Q	Jt
124	ZXXEFP_9tF7jMlxVWNxZAA	John
125	zRxOfT0YYGUY_kHQRKXYYA	Chris
126	dGjhEfWXiDHthaLXW8Et3A	Casey
127	06yzuOJm_DD_nBkHJ8UqdA	Mike
128	14_AqfABIEkf_3YwdN58Hw	Jose
129	lsD7xnhSndVh7Soujr7EeA	Ralph
130	2VMGcxW9tiX-zKwCdGH98Q	Mark
131	Mrm7E6tTuvRmz2jSjvJUEw	Zelda
132	vyeN_SffAoAaedY4KKPMow	Helen
133	WOIKidPPbpMrQe_nSY-vjw	llona
134	wetwn_RlcC5l2VQ0hGasdw	Diadem
135	tYTb6tBd6O46aS7ouT63Ig	cathy
136	ODdom-GNplzVNpCbPFge2g	Kerri
137	BRBW3FZb2l-7AG3KZeLoZQ	Alan
138	3roaA1TggaQR1OhTjh5Q3g	Todd
139	XQcg0ut_doLfFp7l91veLQ	Git
140	ww9_ybOuQ1AcKhR_q6bMzA	Teo
141	_meCwKX0cHn9cDBCnHqN2Q	Crystal
142	N2JYv9hZULO2sTe3ARcyAw	K
143	V8PxlNjOO4syg9M3Gq-PHg	Brent
144	egEa0EyLeUrpf1ImkvN2ew	Asma
145	hftODw08Cz7tBA4vIvRpJg	R
146	em1MRZ_EVbqrM-phW0VbNg	Kple888
147	xZxzwlHWCbAklhCN3lhMDg	Jordana
148	xsEG4i1QCjuZS9urGNLNNw	Barry
149	x4h4edZx7E8Nh2uYcBV8qQ	Jasmine
150	d7-blMfudynQ5s01Jp8fjg	Lora
151	KOxjaAfUa6MTydzAzkp5vg	Supasm
152	OemwvTqkytS7iYWMolUn1A	Megan
153	0EGGfrlsLJZLRiSscN45yw	Peter
154	_1q-xFwPBL7o7J_OCOOWfA	Andrea
155	NLGwonpcqlo7b6OB1nC4Cg	Benino
156	-sYUi6x27KX1YFaQmoXIAg	Dan
157	bb1h94CeJyHGii2eOhlx9w	Chelsea
158	8amfCfFjf9j4mSPnv5a6Uw	Sheila
159	-HOdFyXfzE845lfbQobVGQ	Cameron
160	qO63bm_qSJMIU6FS0Ow7KA	James
161	Slao2vHyX1qnMXAv43OjYQ	Jessica

	user_id	name
162	iQIne4dTLiUMcdGP_DpzVQ	Mack
163	YjjR0Rxt1RFMG4LtLEkyHA	Barron
164	H7mMLnfsgkpXEg1e5qdF2A	Keith
165	ZjpSKVKL5FxTtFjPprUbyQ	Jude
166	dg9FQZs84VH30iueQivLIQ	Lisa
167	dnDa1ozFCsFwb0NKuwvxGw	Yan
168	e9o7CivEHWnt-Wr_wGetnw	Paul
169	tyFNtvPYDixKTGq595F2-g	Jun
170	mC3mF5XWlwZHHtiSXyzTNA	Р
171	s6DFqgT1r1Zjzu8BRyHwZw	Ange
172	kX83T0Ov95hunujQrCEBDw	Sandee
173	MmBe4-OX_5azPl6CdPMBaQ	Abby
174	jcdIBa-vdCg02Kuh4Cu_UA	Kim
175	m9HSc9spXNbKseY14DO7ow	Lisa
176	jDD9bCWreRAukd5KMloPyA	Janna
177	x4ds23nzVSx0KOqqhCiafw	Jason
178	_dxC7Xu2E82N2hKjzitn2A	Melanie
179	BIKZWcqicxLp8jqMsghKbA	A Regular
180	UJ9NjBeWP2fGn2Mp_9G79w	Nacho
181	IRED8cj4Pjkclo0mmrLzJQ	Joe
182	18KXCtO9FVESTggs0Si-gg	Camille
183	L85cv9R2kU1X6JmNVETcgA	Doug
184	-Sw5QUB6MHiHLr9E3NWPpw	Misc
185	j1mclRXvsn_RHJ4nfEeuDA	Fred
186	wDCWHEgg_ml5w6K3iWibNw	Katy
187	-O25qrW2Pi82kGHwhzAFbA	Cindy
188	aXzyFGHVwwe8bMHyucXXsA	Sara
189	s5n2QWA0dd-4RLLHMAwnPA	Louis
190	fde5-lpLuG40khzRV-fdtQ	Philan
191	DMJfDuXSswX9Gyt1UcmJpw	Leo
192	ei06y6sQtnT1JnXxhrOmCw	Daniela
193	0Z12eiruN9Ue2ZK3P1g2og	Aron
194	3a52h20nTcXWsUWZKuojww	Matthew
195	ZQ8ZXepUHhT-RB-THcCzEw	М
196	fZvXnXrpWnZ3iZQ6-lkDCg	Rex
197	8Gg9EZCNO1XLGG2Qe0mdVQ	Ace
198	BPVVYeolcE1UMgQO14KZ_A	Chuck
199	vqGdBBGynOtLVa4VFyf5tw	Sara
200	yT8pCmxxGDL2VQliUB6r_A	Jessica
201	wtw2a70vEAlmwDC91ymEOQ	Michael
202	UyWFBbYnjZt5wud_I8BczQ	Andrew

	user_id	name
203	RQiisoyF59a6cEtSexYfEA	Jockette14
204	8Dnj6NphM0g6KRrOPNwf4g	Melinda
205	OQSya1DStf-2a3o9dcHXug	Brittany
206	IHAZE_8wDBsPdB6mmT7R9Q	Adam
207	cN_1U2fzQhDEcqepxfwDWQ	Steven
208	255qTrwp8iLXSWh2HhBPww	Dean
209	lkNH9roJzAV9Q3IFtIRygw	Ronda
210	fxs5H7kv653-vZvlsC089g	Dave
211	2V96kGSa6f4gtc1caoPs4Q	Legal
212	dTQ-07-ZD19fmpc_QmyVDA	Henry
213	rBfycf98Bjkg8yQS1splKw	David
214	yM3-qDG9FtWFxmUcrjgdGA	Rachel
215	9FZRix5muUQRpHrzdnX7_w	Deborah
216	IiYSEwwSLyot04hVnKSASA	Saleem
217	se6MfGNsVZXOPr7Tsj8b3g	V.
218	FrMkp6CRZWIw5Z0neTINSg	Phil
219	XN0A-FOGAksDXhih0worSw	Patrick
220	8QtjPtG0Kj1v0q8t5jH12A	Paul
221	BRddiXgP2FEpW5Rc5vYHkw	Carlo
222	a-A-w6y88Wi_1k_KdN-Wcw	Tony
223	ZVqcimgU62mbdaDB0kjv4g	Brittney
224	DB2-nPpNPdA7sL4xkOVNZA	Lori
225	PAvUfCRzSSI97v5M3ddUfw	Luke
226	uBAG-YnpUDwtb8SXTayssA	Carol
227	yTEl2cJt2qDC4-9_SEoaBw	S.
228	8uBUIdUZN5Ri75CAg5H9iA	Ryne
229	fwtCYTnNpEbdmW0i7GqD2g	Michael
230	5dPrbSDzJhnkL4BUY2HWmQ	C.
231	8fPv0KFhZIO6kag77wU5VQ	Evelyn
232	nq0rKa77efHYKX5qHQHjjw	Don
233	E4scgBCzoXBTplO5_wKtRA	michael
234	8C5396Ory3qaO-5Lsix_CQ	jason
235	1EWtEFIEZT3Bw_TJ7O2xCA	Marnie
236	y4hzxKTijJm0YAaglFKzGg	Adam
237	veQSEPLgwW9UeATnJY12uQ	Suzanne
238	AhTl6jFcW77obRFU3V7SAA	Ericka
239	NI0gvoYzOK0EjjoGOIYFzA	Brian
240	yvtY_0DntnFvPHdzhSO0Zg	Wenster
241	tbgJpdW8euFxFkICJc0W1A	Mandy
242	q_KOLRfRcajheczSOBKZMQ	Lauren
243	Ea8NCgauqJ2uaj2N-9n5Tg	Tim

	user_id	name
244	1SrHWXa4aG4Vle7cNUFQgw	Kimberly
245	SXFqW6ZMzeEzwJPyK0hlag	
246	kxc4JqRlnlfFRGIYUCNZ3w	
247	Q6LGZxXXjvoAzWDIKHh0WQ	Salem
248	dqWBsZ6RKXme0WYpwJgQdw	Jose
249	JrikvPzSxn48ivjxvVfsAQ	Bruce
1517919	zMUPOT36wopK6XPW-YX54Q	Jacob
1517920	EimEqoWmMD-Z1s2iKF7qHg	G.
1517921	2_otbzmg9lhaCmRpFsFcZA	Renèe
1517922	MHYqk0O1eYl8CyzVTcZA2g	Michael-Rene
1517923	INCm0Yw3MZzLId8QfOfjRQ	Ryan
1517924	ptj0rDuXP2fTEgMjpxrFSA	Greg
1517925	EUbJaD7L4bFuwxFclKJ2XA	Brandon
1517926	jvl9kYb_oJGpFWd19sYxZA	Latiba
1517927	zr9bQowld1q9lp7fRHst4g	Leanne
1517928	QaLwlRiJqh4nUA-safKhkw	Ann
1517929	CTvu7jcAGT5bA5t-Yk4rGg	John
1517930	ebfp-UCoSV0wpW32Mj-nKw	Patrick
1517931	bltz6KphfAcgn3Kah_zV1Q	Ed
1517932	J31n2xgETM3uTUlq62f7DQ	Ray
1517933	sRs3wrY23vsRIWH-5X5BFg	Joe
1517934	9GpBYeUS0cy25JaFPOfckQ	Darold
1517935	roOW9zb8vw09wY21pWrJyA	N
1517936	9yoWpFuy4-wnsfct98L9ng	Orlando
1517937	jGh7El3ckZiK8tl3S8hgcg	Tiffany
1517938	05l2lgtEMQt1k-bSarHxRA	Isaac
1517939	5Dmuble0Ux-HBCGiqESPcQ	David
1517940	FLtGu4bm60o-ZEI-9zSK3g	Drew
1517941	NC78MfwSwv26gVGMz1ZSog	Joe
1517942	JQhjexJJRsb9JU9nCpyFZg	Abel
1517943	sRj0WvZuilxVI1IgORxhMw	Jessica
1517944	NbUYehMn3j4d3zirLjnsHQ	Ashleigh
1517945	Pja67UABmUkGs71aqzN3rg	Jane
1517946	Mw6DbV8RRVytqPiW5nO37w	Kristi
1517947	IWKyDX4Om0ZOBI0bywwqFA	Natalie
1517948	EqMUg114JOuLe0YWIIKA	Marisah
1517949	J4NzI2wo6E5wTYxfA6Esmw	Brenda
1517950	1Nb2JIWWKCliCLB0Kmh7tA	Diane
1517951	tNqmyuH7IC_eBZN3-tGgkQ	Brian
1517952	wlkgqdxQnbF3q99VubEVAg	Bob

	user_id	name
1517953	DRjCQ1n-oXs6jeiDBrsNBQ	Sam
1517954	nWxdwPqRHI6ek4Nyc9Og9A	Mandy
1517955	dcw3ScPctFdUDRjDm76M1A	Paula
1517956	pnYhMRz41GC8umORneh28Q	K
1517957	4oO4MsJTVgueJRTc3bVOBQ	Kim
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1517959	bKeEgopfAb312y55XJkhEA	Dennis
1517960	MmwO-8ly2q4o2XZ53c-mLw	Sangeeth
1517961	YxB5b9VtQ34n2DAJT11ipQ	Anna
1517962	0x7WEf3X9TgMUaMOfRpL6A	Shawn
1517963	e3yfr6M3r21iNmul-p6FRA	Mike
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1517965	0e34Mnxt9oDbn7QPNHvcHw	Jean-René
1517966	Vti-7CvfB3keaHaEy3El8g	Megan
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1517969	NihV8W5dTGuVzGiKbLoOJQ	Terri
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1517972	7evqXwLmeeAT8AzVaBs9QQ	Paul
1517973	QnUcXjhFA68M2WSchB0qag	Brenda
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1517975	Pc3A0MIAQUDXOHPbzn1gQg	Marlina
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1517983	NnsAZ42Mx-APUxUuWW8neQ	Eddie
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1517985	mB4I6bSDEQyWYi-4I3Z5aQ	Sylvia
1517986	1H-KzjHoKelvmAlTLkjwGg	Rory
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1518004	MAO60ZwRnS6KjLmIW_FsJA	Zayra
1518005	rjeQSMRSsMRqVjlNAOWL-g	Suzanne
1518006	xYTOwlaX8L9iwJcyPuGdvw	С
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1518043	UFnAUBEX7yRAeFH8DQ6nWA	Adam
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1518045	WZXqDI0ykZKoch3bpe3nqA	Marc
1518046	LP2k3-3ou08EMTBMsOi2Vg	Todd
1518047	EEQEo2yTvZrhKKWBfVBoCQ	Morgan
1518048	hQ0oRGSxMS17prwqWtXluw	Tyler
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1518054	YqNMcSyzOdRIIBa_OVDP9w	Mellissa
1518055	UZFMDw2GLNdTeh_Tt-FS8w	Jeremy
1518056	PC2uKOvGO_YR8HMSvCJpRA	Jim
1518057	5Km0nvseeEwuZSQ2b4niew	Diana
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1518065	Yw3vnKGZL_FqA5H8io978Q	Amanda
1518066	rLocteAqdY-pIGH2retUyg	Kelly
1518067	VZ7h6bm8Fc9inHni7_KQLQ	Erik
1518068	UAz48qMQ4VIanptj697OOw	Deb
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1518084	SuUJNUwQpq6COUm5LjI_IQ	Crystal
1518085	rXw4In4EcysT4vSllP4w4A	Nicole
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1518088	cAsJOcEvirEiPGdJPbvJBg	Jeff
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1518093	U2E4aVOe0WYm-aJdT5Syyw	Baron
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1518098	4xfUt9O6pASTWbhXe4uvCQ	Rachel
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1518103	KqJ0ZQRD2dJGQ9II0sTS6w	Michael
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1518108	n7D7pBCoPheC73qrT6hMyQ	Sarah
1518109	oNdWKu1aXR_AgUjOFhkFXw	Mary Lou
1518110	kACs834HCSGFwwcaSGNYyA	Amy
1518111	FMKvjyGSTf-wYrBvK3Fhxg	Jennifer
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1518114	JzElvLMH9ordTO9El9fpUg	Kristin
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1518116	m8jSfgVflpL5GUwuWlR2vg	Loni

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1518120	FSUvK5qf8NWB6DN1Gzqh6g	Frances
1518121	8cFWAHuBQpQlwxat4H5Mcw	Helene
1518122	nApACEB5z1qJa2R1f6yl1w	Stephanie
1518123	W1ZnrdDHd1oCF42jBd16yA	Daniel
1518124	qDSDgtH9Hza49zPe5SVUuQ	Bonnie
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1518126	yb_dY6mJPhaR2H_pTXhX_Q	Syd
1518127	q0tvzamw1ybExi7z_EPaiw	Elliot
1518128	wSQVI59NIdFyQ2SDHoy7UA	Matthew
1518129	0uHw-AW2KIkJVwzCK7AZVg	Charles
1518130	5BIOXJ_vd6uKngsYH0-oOA	Cherianne
1518131	mpSg9QDdVUKNeK2Sr96ylQ	Madison
1518132	DgxzftNcQaObBMEa4-7qYA	Diane
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1518138	nKNjeyc-fdF99dk6zK4zVA	Kristine
1518139	qGfqAyyPIWoFZ0JC6yClgw	Karen
1518140	kP7BZegnSiurXwfYvGGpDw	Lauren
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1518142	JDOEDdY30eMfRTjitEnMeg	Morena
1518143	iLfmWoSXID1t36mJOgQXHQ	Jerusha
1518144	60zMHHm6wpOFqCHG4OV81w	Khan
1518145	a8mOFGT4ycNL20TCEFkqaA	Adam
1518146	HLKhSv25-sJ3YE-OWL1xcQ	Helen
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1518152	3Aw_juO9mTtSr1rfqdA1zA	Michael
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46	ERCZtj8qxNxfXJrdXPdEsw	ml9QmqSdQllqSO78RteQfA	0pf5VuzE4_1pwj5NJHG5TQ	1.0
47	YTbKmjGTdn4YzoJXTC1u7g	7Tai8P6zdnhk7NgcXxM79w	0pf5VuzE4_1pwj5NJHG5TQ	3.0
48	Ctl7MMRF-arzGJxA1nJccQ	_03MY3VpWImsHHmDdll0Mw	0pf5VuzE4_1pwj5NJHG5TQ	4.0
49	F9cXFXk60E2sz_YTSCFp_Q	tVUDpVAL1eb9BxUwRgJzyA	0pf5VuzE4_1pwj5NJHG5TQ	3.0
50	OX0T9dWI8b7meu-ljTo22A	oz66Z8p9Etq0WbcZVCmm7w	0pf5VuzE4_1pwj5NJHG5TQ	5.0
51	px0VdZdyTaclveb1LfV6rA	-b9UM6rX9AVj3SvshFdmiw	0pf5VuzE4_1pwj5NJHG5TQ	5.0
52	e9UsRb-fmza5ukU8Ftduew	w78rEDYoPU_PVklmfBsOWA	0pf5VuzE4_1pwj5NJHG5TQ	2.0
53	nUaLFTfUqVKMFQonsWBnag	RVO0dQJvBv33qNU1HBtBbw	0pf5VuzE4_1pwj5NJHG5TQ	4.0
54	-YR7K3rw6VAQ1-MjslvsoQ	AxxtdHRnNQMFruSwUDc5jg	0pf5VuzE4_1pwj5NJHG5TQ	3.0
55	1VKjDpPJdVoiRc8l9f7U9g	eqZvEzaSd_JtWe3oiamjxA	0pf5VuzE4_1pwj5NJHG5TQ	2.0
56	6D4L8YpkhAh_YwaLmhoMNg	oPCIErB6vr6cwWOrG9pQhQ	0pf5VuzE4_1pwj5NJHG5TQ	3.0
57	7m1Oa1VYV98UUuo_6i0EZg	iJmz50_PKFNydHNK9uV86g	0pf5VuzE4_1pwj5NJHG5TQ	5.0
58	SVMR0kRmdd-bbSNTTECJBA	oyhOp2Eu7A9rsnmoV0VFgA	0pf5VuzE4_1pwj5NJHG5TQ	5.0
59	QVYyTgJFz7lcMv31ZmghGg	EbfUnzwP3slrrjUpQbwVkQ	0pf5VuzE4_1pwj5NJHG5TQ	3.0
60	00liP5s4lKsq97EH4Cc0Tw	_5VXSwUzadZzLdoxWOyB1Q	0pf5VuzE4_1pwj5NJHG5TQ	3.0
61	lqCJiHlxzRpuYt-u_XQUvg	kl2nojmhZ-mMS4eoYwPIMQ	0pf5VuzE4_1pwj5NJHG5TQ	4.0
62	Szcr-yMxq76zRaSTUapAcw	Uz82v126_1P-lyJOTnss3g	0pf5VuzE4_1pwj5NJHG5TQ	3.0
63	mDNh9K4eOlfjiZb1DlV88A	Yzm3LplnjLKdzFsmwYZDNA	0pf5VuzE4_1pwj5NJHG5TQ	4.0
64	vrGwjE59kp6Yh_ZlkflD-w	P_Myaojw2d7nnfMWnK7rlQ	0pf5VuzE4_1pwj5NJHG5TQ	5.0
65	BNzcfz3jmBo_1wUB5YlsXg	jn1TW-3BHb2_VMIs37EO8w	0pf5VuzE4_1pwj5NJHG5TQ	4.0
66	9E1q2uEMd881wnruicNTUA	stokm3Fv449kbLHn3RWHDg	0pf5VuzE4_1pwj5NJHG5TQ	3.0
67	VfX7rhtX03yNg56ISz8gVQ	XIZeDNZdGnPvq6gGlqqACQ	0pf5VuzE4_1pwj5NJHG5TQ	4.0
68	8-su-O_330PebTOp60RILQ	2oyJN3jhYTejEmk1OUpK2g	0pf5VuzE4_1pwj5NJHG5TQ	5.0
69	bCh7vrbbxSKx0mtZnOvQoQ	oaFZojSJtvx-P3AR7ID8tw	0pf5VuzE4_1pwj5NJHG5TQ	4.0
70	szhJLmdLDVFTevm8fu0T4A	8k2WpYJFfsPL3kupmvGjWA	0pf5VuzE4_1pwj5NJHG5TQ	5.0
71	brVIRXT4AubkUbe6P-NAAA	IRw-bVzY_9ASqmeDLzXPig	0pf5VuzE4_1pwj5NJHG5TQ	3.0
72	SvlTuwslYKdqvqWtDe2dgA	a6j2K8RuxCsg_fZ3El9PXA	0pf5VuzE4_1pwj5NJHG5TQ	1.0
73	qwy9xdDuCwaVf8r-Wjx5ig	H5Kn3qdB2g1x44wC-tAl3Q	0pf5VuzE4_1pwj5NJHG5TQ	4.0
74	iO3GuliZxzv-iETGVnoeVA	RW_mYzHYfdqn6g7xVglcKg	0pf5VuzE4_1pwj5NJHG5TQ	4.0
75	Wc9UpJhOcdSj7olZkz7SJA	dbfzieXNqQLsZjE7BSRZXg	0pf5VuzE4_1pwj5NJHG5TQ	3.0
76	XGLGvB8S6-Anmt7gZkPLkQ	r0dp0LMAnhzQDoSN3tleBw	0pf5VuzE4_1pwj5NJHG5TQ	1.0
77	U3O8I_wmzdeckbhHpuRWCg	RQOTIx7trAfWisP3rsc51A	0pf5VuzE4_1pwj5NJHG5TQ	4.0
78	hkmaUwfNQtFAJFpxYOHBkg	CoHYq55xz39csjfDH3hbOQ	0pf5VuzE4_1pwj5NJHG5TQ	5.0
79	yz3KtngrF2PQrif8JW7gdw	SLA1YP9doUc8h-6Kd34QmA	0pf5VuzE4_1pwj5NJHG5TQ	1.0
80	ZmLYXTXXrrlA9qMx8rVsTA	gPlo1VYWzt6jp4u2mzVzsg	0pf5VuzE4_1pwj5NJHG5TQ	3.0

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81	RkXZ4Gx6SHmSMe_R9c1Dcw	AMGQSX4_VdyhW7uGX-26rw	0pf5VuzE4_1pwj5NJHG5TQ	3.0
82	ikTlMObBu3al4xNmE9X4mA	oE8Mi_bvAkER0TeJa8RlOw	0pf5VuzE4_1pwj5NJHG5TQ	4.0
83	T2XdzAcj0M_kBD9_BHfZlw	qxPiEGIHy5xyVy78avH5Rg	0pf5VuzE4_1pwj5NJHG5TQ	4.0
84	a58ItFHWoVwVWDqSH_9bEw	ozsPsDFRmha9HH-nVVfilg	0pf5VuzE4_1pwj5NJHG5TQ	5.0
85	fbLYRHIZAt3q839whhaBUg	k35JcHzHaXwEAEEqan-TaQ	0pf5VuzE4_1pwj5NJHG5TQ	3.0
86	K1rAToLggkTvjRz46IU-Tg	AGBMkc677SGy4q4RbG1NAg	0pf5VuzE4_1pwj5NJHG5TQ	2.0
87	A2pHOVp0zh7grb1bbZxoBQ	JvCsQXCkTkybpkJd8oSimw	0pf5VuzE4_1pwj5NJHG5TQ	4.0
88	gxEkxkqQrrK62DJnXxXDLg	tTc81A4aHV4DDtkFVG8RNw	0pf5VuzE4_1pwj5NJHG5TQ	3.0
89	EH3yMY64M0AQNpPj3EERWQ	spH5FCYkWPHWYVvzt1M_Gw	SSJtjZhaImLTtUkjREYSog	5.0
90	3I23nQZ6k6U2G1NKpTpfhA	202H71EF9UnErHrX3fAipA	AYYKxiTdfsPIOBo3MqfAUg	5.0
91	qdx6pWloBposH9tPph2h9w	mnh4yY2_jlupURg1r_8pXw	AYYKxiTdfsPIOBo3MqfAUg	1.0
92	AtbXj3Rg1GF6Dj5zu6KCDg	q6ij-nz5d_hvdjuelho1pQ	WnM2AmNlint5b5f688nmPg	5.0
93	uanCi4OGc1mHLGI_AT4JhQ	Am8VMrPYMI9WGCpA4ji-gg	ndEeYBva8wU1N_vzfvOhEQ	1.0
94	faPVqws-x-5k2CQKDNtHxw	QHueaxKHuBpbDOkWb0Cyfw	0Alj432MvowwghnpurtP-Q	1.0
95	6tSvz_21BMo3a4GaItwa0g	66FSK2J1uHJqVI1Z8QiFGw	Yy_iGXxLpL6tYDQoE-6XVg	4.0
96	-ed0Yc9on37RoIoG2ZgxBA	smfJ-FC5iokX7AbGbTMD4Q	Yy_iGXxLpL6tYDQoE-6XVg	3.0
97	XiN6fl8l3Mzg2nPRJ9ukRQ	1QR6BgzXhpo7ngGEw-BW4w	Yy_iGXxLpL6tYDQoE-6XVg	5.0
98	U2eT17Pf0LQTPGMXN9idxA	gh5kRC3s_77jZBUo1Ctw_g	Yy_iGXxLpL6tYDQoE-6XVg	1.0
99	BEtgRzNeXGAf0uQ-HuSyfA	uXoexzu7jA3U0qoR5M6opA	Yy_iGXxLpL6tYDQoE-6XVg	5.0
100	7wHLFohwCw8l6WS-feLjeg	5k9F53Lanw09xR3nwCdRYg	Yy_iGXxLpL6tYDQoE-6XVg	5.0
101	ixAh9crlLnJ9tM8LhWFhkw	Fv1cqziL1JShSztJWYkTcA	Yy_iGXxLpL6tYDQoE-6XVg	4.0
102	aQ222ydz_GSRZV66xNt4kQ	AxhxGl41DltKjqkzYtr53Q	Yy_iGXxLpL6tYDQoE-6XVg	1.0
103	owLBKLyHe85xPba24bmZRw	IAyATpsxALW9owlSKhSozA	Yy_iGXxLpL6tYDQoE-6XVg	5.0
104	s3i73_ttk_F33AEdqMr18g	_qlXejLYgWGYYtcGcMw1eg	Yy_iGXxLpL6tYDQoE-6XVg	3.0
105	VmspRdKauEargr8YX1oL-Q	5sXSVB7QiNx87XkhNSs01A	Yy_iGXxLpL6tYDQoE-6XVg	5.0
106	pR9HHzbUdZ0Gt80_3NmmQw	sJybnuOiOY9yb3WwdQuTTA	Yy_iGXxLpL6tYDQoE-6XVg	5.0
107	xqbvqZHNyj2qExHdizzd0w	BC2-Mup-2YPJPpcihNoa9A	Yy_iGXxLpL6tYDQoE-6XVg	5.0
108	JPfiQJAaRzmfh5aOyFEw	mqhCY5oLA1LXP6gZ3JQDTQ	Yy_iGXxLpL6tYDQoE-6XVg	3.0
109	SmizR7MLt-558FJJQRBBoQ	2Hk7DNwu3rb2jKHaFfPyCA	YHWsLBS8jzZiPjKHMFOaAA	4.0
110	iKMLsX1Je7P3wAOEc9scDg	D2TcNaPqXxDGQ6T0n-vHXw	YHWsLBS8jzZiPjKHMFOaAA	4.0
111	qhJ4GDULYbdb_sctDgbZgw	Vtd6Tqm7YMfRTBFLtZIoOQ	YHWsLBS8jzZiPjKHMFOaAA	2.0
112	gl1zQmiA8MUHmLL2wsCdVA	ZOBEhxOeMnncqIJFkGumRA	YHWsLBS8jzZiPjKHMFOaAA	3.0
113	OR6iRk0vrMzE-1gLg-WYrw	fWdhtaQld99jXB-N9yu1tg	YHWsLBS8jzZiPjKHMFOaAA	2.0
114	qAg8GkN9rforFWmGxBqVqA	t98usw-bvob9JqMJPvvnsw	YHWsLBS8jzZiPjKHMFOaAA	3.0
115	VhQXJteVrG3L-wq8HIYFqw	0RqkBJegJpH7thxPTL30NA	YHWsLBS8jzZiPjKHMFOaAA	4.0
116	CN5nuUQod0f8g3oh99qq0w	TiicMquFOQFF7SNnyBww	YHWsLBS8jzZiPjKHMFOaAA	4.0
117	yTWSFoGjkK6pl7kJm8f0Dg	OV_95Q6-zyRAn2hGDAXX3A	YHWsLBS8jzZiPjKHMFOaAA	2.0
118	HOGdBz2w9VZbw2yyM-WA3g	ujMcxx-EzqTHht2ZtsiQ1w	YHWsLBS8jzZiPjKHMFOaAA	5.0
119	d_Go5TsiFMIRtCE6XS8Sjw	Wcquaa9O-kUULSFeV38hFQ	YHWsLBS8jzZiPjKHMFOaAA	4.0
120	wVc3g-YfyDvkOLDecpr4DA	RCTkfcQKczfUhtV1Hz58jA	YHWsLBS8jzZiPjKHMFOaAA	5.0
121	qDguZjZSYPOzq-je_EqO3w	BP6XZmb7ugvc1De9mvoQpA	YHWsLBS8jzZiPjKHMFOaAA	4.0

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124	amsvLzfEvCzLwP0MnXAJ1w	qn8taSTZERfaR6cPBEiOOA	YHWsLBS8jzZiPjKHMFOaAA	4.0
125	P6JCepLy6zlq-jEsrAqkKA	ytMNnwPkSBxmixfOrC1Q	YHWsLBS8jzZiPjKHMFOaAA	3.0
126	pgomg_u3H2RtEVUYUcngXQ	IWZbF7GrYb8YFne_HN7m0w	YHWsLBS8jzZiPjKHMFOaAA	3.0
127	ncBPf_4toivivsi8bcRw	hiGKbKVj4hIF7GoNer4epA	YHWsLBS8jzZiPjKHMFOaAA	3.0
128	Uw-kIS3HTuAohfg0edQZ3Q	ZXflARFQ5sKpO0lEdc9qlw	YHWsLBS8jzZiPjKHMFOaAA	3.0
129	TFftsYkRIUtdo6ZhRwJ2lQ	070Mmij4jDlqLV-Cy5w7bw	YHWsLBS8jzZiPjKHMFOaAA	4.0
130	tEfmHuo_dNanyTaC5PyoOQ	MhkLj0c7EjcasKObXbr35A	YHWsLBS8jzZiPjKHMFOaAA	3.0
131	IJOGYkb8_n77ixVh_3zaug	ssYFA8RHnSTnulzUgjotcA	YHWsLBS8jzZiPjKHMFOaAA	3.0
132	uF86ZhygpBEGr3CudNemYA	YCilP6BtVj-3Pjq3uTXVwA	YHWsLBS8jzZiPjKHMFOaAA	1.0
133	iVCx91Wrn-CjpxJAyLHPxg	4T3tLnPK6MntQAPVItIEFg	YHWsLBS8jzZiPjKHMFOaAA	2.0
134	sscP36MO34i5ep4QO8c7KA	dp6rinVjRXYaAABTU6BYsA	YHWsLBS8jzZiPjKHMFOaAA	3.0
135	-chGaXHZsoLKLHPJMMsdmw	8Jw4NUzEWzHnNu4-Z2QRiA	YHWsLBS8jzZiPjKHMFOaAA	5.0
136	AercPW1B2YVNK3UsiPDkTg	R3vvcOvLY2q0FhAlzLQqhg	YHWsLBS8jzZiPjKHMFOaAA	5.0
137	43PeF0ERpSliEbXM6f9N2g	o3cfKu_O1n8CiJpFdjVvsA	YHWsLBS8jzZiPjKHMFOaAA	3.0
138	lebS6p5BNr8Qc3k7e9AmRQ	vNSWdL5NLefDGdSCMrmTTw	YHWsLBS8jzZiPjKHMFOaAA	3.0
139	BmgfYQ3tpRKnT9H9WvjL_g	BqMTHIJ_S5aT3Mt1fWT_pg	YHWsLBS8jzZiPjKHMFOaAA	3.0
140	4LXZzgsrM1ZySuB9Od2Q	8xhfrLJ9SGpX2NU6FTiTHA	YHWsLBS8jzZiPjKHMFOaAA	4.0
141	8MWiywu09bhLWlpzVaD4gw	6kDLjGNr7SzoUTwhwTazBA	YHWsLBS8jzZiPjKHMFOaAA	3.0
142	nWD8OWd_DAXGubGpFenmiw	-NFqTYMVwBYNEL8Q9dGVSA	YHWsLBS8jzZiPjKHMFOaAA	1.0
143	BO-E8cdAJI9-T439MhZcmA	2_kKYvQF9dgUXsaqQGsu7A	YHWsLBS8jzZiPjKHMFOaAA	3.0
144	zz3CqZhNx2rQ_Yp6zHze-A	zNu5ytMhNJ9N70AF04X9rg	YHWsLBS8jzZiPjKHMFOaAA	5.0
145	9EWqMUCkQNfRUELilEA8lw	IVmVCplak0BERdLiBKhl1w	YHWsLBS8jzZiPjKHMFOaAA	5.0
146	gIQZsUBJhtyLquNd2Wss1w	nauqE-2FDrcfjGinmGA9Xg	YHWsLBS8jzZiPjKHMFOaAA	4.0
147	bEVWHtBRYVwqaaNF4mWNYg	fPy3Kzbv0xXE78bhvh3gNQ	YHWsLBS8jzZiPjKHMFOaAA	4.0
148	rROS_gXxt9UbD7peptH3vA	En1MNI1OIEBxvAAmmWjQMg	YHWsLBS8jzZiPjKHMFOaAA	4.0
149	bDut3KRQJ0qLElfaJNQFgg	PyGsrZ-TA0-cN53skFNTxw	YHWsLBS8jzZiPjKHMFOaAA	2.0
150	zZAAiNGU2ySMvAlYbvvchg	VmfzZsWP9-fDlqWO4LgUFw	YHWsLBS8jzZiPjKHMFOaAA	4.0
151	vnIdWzIB2W4j9cDcd6tHAQ	XC9yT_qCACdgsyLhWOjR6A	YHWsLBS8jzZiPjKHMFOaAA	2.0
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153	Lmqj8Me1EiYljYj0N1W7JA	fDOAUUMS9KY4NBPI_XArjQ	YHWsLBS8jzZiPjKHMFOaAA	3.0
154	y-sRypoTK2L6EuozhEMQzA	cRJcKF3fQCUDjX69daVTzA	YHWsLBS8jzZiPjKHMFOaAA	2.0
155	vOUIiRfyA9jtra7Hez6mpg	Mk_ZW9-ol4mFr9HMvjQmiQ	YHWsLBS8jzZiPjKHMFOaAA	3.0
156	HX0QhTVWztcawNof0KUhgQ	kUgUo3SfZDj_XwAECQtkjQ	YHWsLBS8jzZiPjKHMFOaAA	3.0
157	ILlebFUb89ZozizpVGeHdQ	yH17eZfSnECroW_OLBaJAg	YHWsLBS8jzZiPjKHMFOaAA	4.0
158	o19vbA9-BuvHXrE4nYJ60A	snwY-gb9yLeL4RSOS4QBRQ	YHWsLBS8jzZiPjKHMFOaAA	3.0
159	N8bCOvrGH69jD3-CRc6Fpw	IODJhNP9ENOBbu3HRDpOCw	YHWsLBS8jzZiPjKHMFOaAA	3.0
160	m7PPpShEdfhtV-7NnPN1Nw	iXp5A9Zl02oomdjHylgVjA	YHWsLBS8jzZiPjKHMFOaAA	3.0
161	UDk7qUVletK3Y3NuARguqg	BLOMVxTereHbU8Y5kG1Cng	YHWsLBS8jzZiPjKHMFOaAA	5.0
162	5aBEf-LO_mic_CMqLLbDaA	vAq2xRLiQEwGdaoprAPvfg	YHWsLBS8jzZiPjKHMFOaAA	4.0

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164	Egn5h9fStvVKcFH7kaLQig	We853schl2SMtGPJHYHYtA	YHWsLBS8jzZiPjKHMFOaAA	3.0
165	RADIoW1UROUn4FJFU4JJNg	-4BMAgivIQ7hj3ca_Wnapw	YHWsLBS8jzZiPjKHMFOaAA	4.0
166	VeVjZ8aR_zFEM9jKJuvraw	tcrc-4tMo9Zz5zLfqKhJdw	YHWsLBS8jzZiPjKHMFOaAA	4.0
167	cgoHLKJLsAK1ww0_ezNFnw	wM7aW-BMmuK5sGOWuKO1_w	YHWsLBS8jzZiPjKHMFOaAA	5.0
168	VSgrQWkpv15FJuqmNE3srg	-WfxuhNncKIljj7ZssL2lw	YHWsLBS8jzZiPjKHMFOaAA	3.0
169	6frPvwX14wDH8jju64ewRg	NksQNx6WYTR2x2vfo2BYTw	YHWsLBS8jzZiPjKHMFOaAA	3.0
170	dc2jT85aZGNguurhlwJDbA	U893kSY5zzJEnSiwHarvZg	YHWsLBS8jzZiPjKHMFOaAA	3.0
171	NYpmDzwzAQyv0gQG5gBKbw	oZ5iRUkGiJ_r27Z9pJKR-w	YHWsLBS8jzZiPjKHMFOaAA	4.0
172	1SnYDvrd02FXSXnlgz-9DQ	8enQ9Fj-sWkWub4AZQUzeQ	YHWsLBS8jzZiPjKHMFOaAA	1.0
173	zOpfpJ0RcoUU_F9ROiQB_Q	XuVRnFe_37dnavJBdUQ0tw	YHWsLBS8jzZiPjKHMFOaAA	1.0
174	dy0O7DaSUd49NZWSEtvz_g	RO5eUIT1C1MLsCY9cJCM5g	YHWsLBS8jzZiPjKHMFOaAA	4.0
175	YWd0I1BxSzFG61lSyC3lyQ	j1eUflWCc-IIZNmRIROqtQ	YHWsLBS8jzZiPjKHMFOaAA	2.0
176	oWTn2lzrprsRkPfULtjZtQ	gaA9Z9LCdju57P3-6PHEQg	YHWsLBS8jzZiPjKHMFOaAA	5.0
177	5PO5ZIHIcaTNIiHNoRKDqg	r13Q1UVbPED1I-RRsbJDgw	YHWsLBS8jzZiPjKHMFOaAA	1.0
178	ZIYjeK5S9hw1bP3nLezD6Q	wXpKZXh4pyd3gwvYOA1PJA	oFCJsJqBZxqpBHZ7rD-IDw	5.0
179	YPa8t1631tlRQms0p331ZQ	vCwlUF30mV7Eg5MCS3N39Q	wMttR-7frrO-YzDsliA4GQ	4.0
180	eZCE1u_3ORIX8dHSVTjl9w	GuD3Og1PmJCqXAiWQe1xew	wMttR-7frrO-YzDsliA4GQ	4.0
181	WDW78rMY3nE4pG3KpEMM_g	ihzPtXHN6nDgyGQdw8A	dQzQ4bN0Rnb8M-0LqTl3-g	1.0
182	ruWTngdiC68O9la27hvvHw	Tifm4ETlt4FXiuGwhqlg	dQzQ4bN0Rnb8M-0LqTl3-g	4.0
183	7KkgMcbVaetryW1wwpzvvA	htV6dNmUqaXwCIRt7vfO5A	dQzQ4bN0Rnb8M-0LqTl3-g	4.0
184	bvGdqJ-SeGdIHX-HEabwlg	AR_IDHI2P4kUVPB_tTsA6w	dQzQ4bN0Rnb8M-0LqTl3-g	4.0
185	h1Jq1YlqPyD1mGSW0sjRaQ	JL6B_spdwG_gLMEdh4Z-Mg	dQzQ4bN0Rnb8M-0LqTl3-g	1.0
186	9tLCuUmw3Tlco-tKPGkIWQ	vPA9ZwuatQhnfu6WrG0mpw	dQzQ4bN0Rnb8M-0LqTl3-g	5.0
187	7UFDAX4wLi6ux5otguYldA	FqqHziMutfRwq-uJnILH6A	dQzQ4bN0Rnb8M-0LqTl3-g	4.0
188	ICw43H7hrbSuXTjDBmJxbA	RUoRwBWiYAZ7FhRMg_ibZA	dQzQ4bN0Rnb8M-0LqTl3-g	5.0
189	_pBXtjN43eqMV0XZTz7nmw	ohzlH9CWRuP8TehyfTUp6g	dQzQ4bN0Rnb8M-0LqTl3-g	4.0
190	3kdSl5mo9dWC4clrQjEDGg	Bay72mlfR-yGKZf_S9xQeg	5oy_MM1skY1LvmdNNVVM5Q	4.0
191	f4x1YBxkLrZg652xt2KR5g	YeRRSIod4aDvNDQKvbSWnA	5oy_MM1skY1LvmdNNVVM5Q	3.0
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193	fL-b760btOaGa85OJ9ut3w	0VOZHe_tfbhW3YvsBf5yxw	5oy_MM1skY1LvmdNNVVM5Q	5.0
194	EjaWbiOo8_dCXx1mRcglAQ	5QY5zA25mkmfA9dTRA6KbQ	xFxNZQYBVII1m12wmY-CpQ	5.0
195	e1lqLqQb8gKNnae7yh_gFw	3mOl94tk3YnpYAzsSKzziA	nJYECxzF14qRwrfFg8zm1A	1.0
196	I4x5FFzfiCFrGN0S-uZbBQ	4zThfSMxa6fxOf3L4LXctg	N7Jy_9BnDckwKTBw44b0rA	5.0
197	HDv-KchmLSIRr5MXxRkNqQ	sjvlLg6iKlsw4pje1-FElg	OQT9DjfBrzrwOEdVJjuYIA	3.0
198	q_FpKCM8P6cabMZwlOuqTA	s3a5WnVtA5tknXqKcKvC4w	OQT9DjfBrzrwOEdVJjuYIA	3.0
199	-dcl8oWvxdMCGp00da8Ksg	I_xCcePP38yNSPrlziIQSA	OQT9DjfBrzrwOEdVJjuYIA	4.0
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201	09hXjMwfHxWpiOqYj08zwQ	UEoac96rKNfVM0_UKUQGqg	OQT9DjfBrzrwOEdVJjuYIA	4.0
202	idU2ytgY25a2TCVFyXZgjg	SIHJXZTUERz2vFh543KicA	OQT9DjfBrzrwOEdVJjuYIA	4.0
203	JsUytp_MuZ4AX5JWfi2eLw	FadohB_xUDDuhNRHPiSWYQ	OQT9DjfBrzrwOEdVJjuYIA	4.0

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206	KEGLWeFAWXvo0W2LnujhtQ	2nl2kKeoXlBAdPk6MoBTsA	OQT9DjfBrzrwOEdVJjuYIA	5.0
207	-BOdPJnlQlLRv2aZ0nEWQw	zDSlyv7-Jnnl5epuDRhxPg	OQT9DjfBrzrwOEdVJjuYIA	5.0
208	Xm5_AqSjcs7ixHVnPvf8Cw	Rs6tbf7w-SASMxYJJBaXCA	OQT9DjfBrzrwOEdVJjuYIA	5.0
209	wwezOo-RIJW6whkdQzRxmQ	NZ2zjo_GihoCd4AU9kqqcQ	OQT9DjfBrzrwOEdVJjuYIA	5.0
210	9flxU7AaMAGlSp16kl9jdA	tAvLRntFoaPFgho-9vNmKg	OQT9DjfBrzrwOEdVJjuYIA	4.0
211	nL1EXx8Djm6Yorb6A11IRg	ct6uRcO49L4LeVveF1YSMQ	OQT9DjfBrzrwOEdVJjuYIA	3.0
212	7YDleCtN_pXsqjo7yQZ4OQ	OTOb2TcTAURs_9mqhqV2Ew	OQT9DjfBrzrwOEdVJjuYIA	3.0
213	foD6m1lhxAAfNEHdUbBpOA	5AaqmPwBBcxE_vB6k8fFyQ	OQT9DjfBrzrwOEdVJjuYIA	5.0
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217	Daasejc2-RV-MxEKpPjXtA	jCCOxXAfgyX1Vdx_R6UBhQ	OQT9DjfBrzrwOEdVJjuYIA	3.0
218	a2h9nrVMpNvfwMBo1e8ffg	VKPLM1C4fLIVP2wKpwYXeA	OQT9DjfBrzrwOEdVJjuYIA	4.0
219	QaXU3XeFaWwJ1_E1A3_3uw	jgKMbLlZBl0KgeyaluGtPg	OQT9DjfBrzrwOEdVJjuYIA	4.0
220	4vxpq3gE4p710Wxh82traQ	8x3RzF1L1w41DLBtYjXA-g	OQT9DjfBrzrwOEdVJjuYIA	1.0
221	rX55-phMl0GEDjNiwb8Cuw	817R6soeZJmYg3YwX-urEA	OQT9DjfBrzrwOEdVJjuYIA	3.0
222	qWSwDbtJRBvKTiMpH3rNLQ	2BAdhk0WKCa-rkcSNwCA	OQT9DjfBrzrwOEdVJjuYIA	1.0
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229	j9xwoU47J57l3l36sye4rw	yZDw-hR6TsXtPc2FkoNgEw	OQT9DjfBrzrwOEdVJjuYIA	2.0
230	BFT2OTfdK98J3FQ0ZZdE0A	J5c7bfRMtljW9ZdA7DRF8w	OQT9DjfBrzrwOEdVJjuYIA	3.0
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235	8-ymYx-T2TGZ8n2p3ct-9w	k-ga0YTNVe9Mmzze3lyMyA	OQT9DjfBrzrwOEdVJjuYIA	4.0
236	xwAjj-iemdpJ6vuL1-zrDw	MbGCpR5-YaUY_008YNVzYg	OQT9DjfBrzrwOEdVJjuYIA	5.0
237	lgmDTHqe0IGyvfrfeFciuw	zGH33h9dUfNvbrqvPBumHg	OQT9DjfBrzrwOEdVJjuYIA	4.0
238	YE55rilHyVuC9NfkcU9eFg	4f6eWCohAq7PO6pQCIgotw	OQT9DjfBrzrwOEdVJjuYIA	4.0
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240	Er1mJJbrhh885LlkNsgqfA	DEsnzui_PkDmiglp3s_fYA	OQT9DjfBrzrwOEdVJjuYIA	5.0
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243	Ex1-tKlQa74J0usZVHxYEw	0L8hqmX03h3CsNvsp4pk6w	OQT9DjfBrzrwOEdVJjuYIA	5.0
244	D2ojX9bvE0alj9BhdZZA	pQ5UfMv2LbPHHor687IXCA	OQT9DjfBrzrwOEdVJjuYIA	4.0

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247	uKP1_uDGYSsMl2_5XU8fKg	AHfsjl3uEllHr5hr1WTV6w	OQT9DjfBrzrwOEdVJjuYIA	5.0
248	VeFqptSzekFAc3FZOpi81Q	vsgYu7KdwsWnmP8kg8aBYw	OQT9DjfBrzrwOEdVJjuYIA	5.0
249	CJty_bUZVJJaLFcTppxmzg	jQQeiU5PKrUqXD5qy4c-Ug	OQT9DjfBrzrwOEdVJjuYIA	4.0
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5996780	bl9_dtXS9qN0Gmi7YbRm5g	pLb9vRUKUWju1eU0_aB3tQ	Alf3fEaBWKNkcTXkVbm-Bg	5.0
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5996808	inXu0sfSxf7PF4GvWTfbEg	tH7Zb3RnFnPtci6m-oQP9Q	V2LfRoD_Ws-qAxr2Kria-w	5.0
5996809	qT3Z72o5fidYhXObRLckzQ	4R1jd2AgBq2v46DDGdcHdg	V2LfRoD_Ws-qAxr2Kria-w	1.0
5996810	iSRXy3SVAAoixg6aXPhYyg	6zdl_7i5fQRYI58J1eDxew	V2LfRoD_Ws-qAxr2Kria-w	1.0
5996811	wJ-961JWdVhJXhWQf4Jlcw	ihdwO7CVU0s-jrjCpI039w	V2LfRoD_Ws-qAxr2Kria-w	1.0
5996812	NaZVUOzqk5b-l0mlki-9Og	3KhtGDymxq7PyMapAqD8qQ	V2LfRoD_Ws-qAxr2Kria-w	3.0
5996813	99kGGQoig4YaRi-52VtqMA	TdlDu9W4wrcDnP6ufURcCw	V2LfRoD_Ws-qAxr2Kria-w	2.0
5996814	U7xPpLet56Zhi5GDZNlmoA	bWzcuWW5IMgsS1T-fF5P8Q	V2LfRoD_Ws-qAxr2Kria-w	4.0
5996815	L_ZLtfHvfzfoNVQ0-okTXg	xzUWBJ8QJ7bd-j2uNw_Jgw	UwQVU5W40yIf_rPmRqzJ1g	1.0
5996816	dJWWqmoqZapsKftvExjwXg	uLVvPOUiqK3PRGd6o4lrlg	UwQVU5W40yIf_rPmRqzJ1g	5.0
5996817	aET2kncA1LUKSL3OtKixFw	_5-hLx7PqyTr3TLXYmVbKQ	-uT2ah3HQmxs74qnnnE5_g	2.0
5996818	GNa1y5-b7u_5ary42o8-LQ	4hib-WQWG0zbwa3NxPAdNQ	x5GG_pGk5kPGgQBallt7vg	5.0
5996819	QtyvwZi6JiloDNEEH_ZxLQ	7yGaqi_RknZG-W8Wkl0Q	x5GG_pGk5kPGgQBallt7vg	5.0
5996820	2wCzZUwcqRRBrAtBBYxnog	mq22VPmjbJSlOIVX8ZTsrA	x5GG_pGk5kPGgQBallt7vg	5.0
5996821	W_hRQRDEqVdO1WKGa-DQ	qpDIOL8N2Wd5jQlBuPWAlA	x5GG_pGk5kPGgQBallt7vg	5.0
5996822	nmBU1vK_3pkF08guLEoUjA	-74eGvURCaWHcrV3e7Fj3A	x5GG_pGk5kPGgQBallt7vg	4.0
5996823	im2J4GZZdEl7s4o21D7rgw	xLkRpcz6lR3A0QBIYnmgUA	x5GG_pGk5kPGgQBallt7vg	5.0

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5996824	k6EQholZjA03b-O6foAPCA	cGHkyE3vbprd5X1PPR-SsQ	x5GG_pGk5kPGgQBallt7vg	5.0
5996825	Bj8SZok_fBDxzHYE4Z_0kA	Q4hYzyXcb9glF01GK5zfMg	x5GG_pGk5kPGgQBallt7vg	4.0
5996826	RBiJRcNC7NoDf-XYMFrCBg	1LU_OFIKTkja05QE8fv6iA	x5GG_pGk5kPGgQBallt7vg	5.0
5996827	6b5RLz7szHcSTGKjvKWR_w	_50ZKFRJXMRDRdwgPDcm4g	x5GG_pGk5kPGgQBallt7vg	5.0
5996828	oopfFjmzxgkDB0tt160nkg	2mRRhyddcLdR0yj3NRAZ-Q	x5GG_pGk5kPGgQBallt7vg	1.0
5996829	oaTbZh8B-IVFEwbzJclOBg	RnkHxC25SdZIFdGDfLJ0uA	x5GG_pGk5kPGgQBallt7vg	3.0
5996830	92KZBnzEki_70Dh_IB_Vkg	Tnl8qsuf_ajmo-Fzkma8-A	x5GG_pGk5kPGgQBallt7vg	5.0
5996831	P4w7kxvrr4odvXdyQzXlvw	nww9JbZyCe-aX2znl-vPLA	x5GG_pGk5kPGgQBallt7vg	5.0
5996832	2jqUYcKMYZXnpxNTkORJgQ	i42Xg4QJFW7fElCjiEcPIA	x5GG_pGk5kPGgQBallt7vg	5.0
5996833	ebgCzdUOEINJirj6eFuXiw	XIa7GCuLE9_sFmUMDgjMkQ	x5GG_pGk5kPGgQBallt7vg	5.0
5996834	kafUXRNfQm3e_U14S2WbmA	H-HoCDau7t7sNmDBlce0zQ	eHnfjZsS3VhD4qX1NRadtg	5.0
5996835	PXShA3JZMXr2mEH3on5clw	QW3JOmN-QclvpDONv5oqrQ	eHnfjZsS3VhD4qX1NRadtg	3.0
5996836	fL-b760btOaGa85OJ9ut3w	FDgzcLEKb4XG4oF8EhTBHw	eHnfjZsS3VhD4qX1NRadtg	4.0
5996837	K0FtmxCgqJEbDNCyXyMX_w	EaWbNCUFtHbNoa7qpJv0dA	pS8Jxz0UBowp0feoSqeqlg	4.0
5996838	FLvAk3LSz57-jqzCFwxh3g	MJsZ-DkkDAg4Ow42Efc-CQ	pS8Jxz0UBowp0feoSqeqlg	4.0
5996839	TX6BBY9rXOrNIHZdGmbrIQ	RtEpoagMc279mwWlCyd5Fg	pS8Jxz0UBowp0feoSqeqlg	4.0
5996840	3T0Erqk1MKtN58764yZMfw	Sd16pKZ7oXsTlCfZzzAJyQ	pS8Jxz0UBowp0feoSqeqlg	3.0
5996841	59YbAeuiz0isJtRNKATTKw	oV3Z-YqUYX5zLV5Mg9bT6g	VKkW2LzXSHNGyOR7BHnMoQ	3.0
5996842	qgAZPDQStZP_Y5XTiQ6UqA	3M_XPJfpA3cacVHpiJj7-g	U2CeQTrvsYdhSTghKNFHlw	5.0
5996843	CMbFXgYtrmsY4OAJkX-mHQ	rtAPZcZLm3N8h3p4BW8hbA	U2CeQTrvsYdhSTghKNFHlw	4.0
5996844	8nP8ghEpT6WFcM6tfqAaGA	OeXX2FYxMMiwLafJAy28EA	U2CeQTrvsYdhSTghKNFHlw	3.0
5996845	I8uMpQS8mxdayLkdbBG6kw	5ObteOTNCqR6lheiL7d7_Q	PCd2GB6DtgsTARKAhXqrow	5.0
5996846	IGFTh0RfiY1uqK1eXoC6zg	xbQeUnmCVrPpsxDuflr2Vg	PCd2GB6DtgsTARKAhXqrow	5.0
5996847	pApEPv1-ApXee4GYYMB5AQ	bF4i81-h_v-RmdrEOm8c-Q	PCd2GB6DtgsTARKAhXqrow	2.0
5996848	ad0LjmuXhUGBxTSkve5LZA	7sKaReon_WIN5EVMC52nDA	PCd2GB6DtgsTARKAhXqrow	5.0
5996849	YtUaJkgKc1pucwdSq_DQeQ	9-26OlpvPPmVD_hmswYA	PCd2GB6DtgsTARKAhXqrow	4.0
5996850	vE_hWF21gmg7CWZX7H6HXg	xXxXsaLlkGAlhf8bmUv_sg	FQrFhgbCOkc-hSR6r0ZxNg	4.0
5996851	1iL0ZmCINct2yORMvM1e0A	0Sv2rLAxUcdl5xrWVZZ6gA	-2Ztz2kuCx1jHPCTuhqGzw	5.0
5996852	xMR7KXEu_neOpqCL84v8lw	hglOoxiZ_myAbwQmrYJ8RQ	-2Ztz2kuCx1jHPCTuhqGzw	5.0
5996853	xGzKRIUAuqDrT9eYthGqKw	G9_8OTjUP2C56Snb8rP4JA	JE2-SsoGJXuJmJEWdbUGrA	2.0
5996854	hL4zk44cGQP8ixi4sMLbVg	NH2aKM7yCj4vZdH80CF8QQ	JE2-SsoGJXuJmJEWdbUGrA	5.0
5996855	N5mcKKdcmwirw1bFhE80Sw	1X4QTX3WkE_YwMWtrHkjGQ	JE2-SsoGJXuJmJEWdbUGrA	5.0
5996856	QUQAxpzjx0A7_aMpwEldpg	4mdbp90D1OrKrHVV7xG1LA	JE2-SsoGJXuJmJEWdbUGrA	5.0
5996857	3CBLxydJU6CFRMGhu9b-sw	Bs-LJS1afhHk0tEY96eCkA	JE2-SsoGJXuJmJEWdbUGrA	5.0
5996858	XPLSNGSCIW8gR5BTcvyOhQ	fSEbBtk3nMBcfS6Ra3634w	JE2-SsoGJXuJmJEWdbUGrA	2.0
5996859	IEtpTFWetCf6xnzeImLiHg	bZufBID6EWygN4ByNixvzA	JE2-SsoGJXuJmJEWdbUGrA	5.0
5996860	6We2O5X62J_gduXU7jvf8w	HKiBApHHpfqiXe0JM68InQ	JE2-SsoGJXuJmJEWdbUGrA	4.0
5996861	GU_bZ2qgcxVsj7f98z-1YQ	39e1vPUrMzZB1daJQqN2-Q	JE2-SsoGJXuJmJEWdbUGrA	1.0
5996862	UdEmYOnk2iJDY9lpEPAlJQ	YXyoZ5AO5DS3tAbyFjznWQ	JE2-SsoGJXuJmJEWdbUGrA	5.0
5996863	3X-jhrbCSMv5hfUS02xdHA	fA9hcTQu0XsehBEs7eTGmw	JE2-SsoGJXuJmJEWdbUGrA	5.0
5996864	vX5ma5Nwrzqwdz949AmVVg	FoL_OtYiXJD2X8Zzv7olyg	JE2-SsoGJXuJmJEWdbUGrA	3.0

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5996865	AnOb3EDRIwfVayPWddr78g	HKo4E7InyqwruzNQleOSqw	JE2-SsoGJXuJmJEWdbUGrA	5.0
5996866	-rCloxp7pqN3xY7E3-v56Q	6R-sAFzQ-OJDw92pfKWNng	JE2-SsoGJXuJmJEWdbUGrA	1.0
5996867	JRo3APL5f4-TEkul-SoDcA	vwBVaKEKB6ozWc1q5fUQeQ	JE2-SsoGJXuJmJEWdbUGrA	3.0
5996868	oh80akfAAu0DPP1x18y2Jw	WXtjyTzTNfTTLrz23Qgedw	Fj7PELxHYa5crhHMEUTsig	5.0
5996869	qFAw6wHMMcr4ctF-ZdGhEA	81sRqQd1qnZMyLDMkbX4jQ	Fj7PELxHYa5crhHMEUTsig	4.0
5996870	SMPbvZLSMMb7KU76YNYMGg	nq7tGWen4AUTULenTDF9pA	Fj7PELxHYa5crhHMEUTsig	5.0
5996871	CymM3BP68hGigBK_5ap58A	n1DA6TobVS8AWSy4gfYFnQ	Fj7PELxHYa5crhHMEUTsig	5.0
5996872	LrBCULmDal38G7-UdGM7zA	P7kC9Z0N34W3sAzGw2ud5A	ER_ZPy4QoitJK9F0qUY0Bw	2.0
5996873	uUq0bMEjt202bMbRHklcNA	U8Bqp8f382p8d78IMDOAMA	_5FImOonGUmbmgT61hGJgA	1.0
5996874	ePt0qmZgU-fjqMoM1M2U3Q	IyVx30vOvmCxOagDU_U_yA	IEkC8dYPIOzGDUBBL2KQqg	2.0
5996875	CRLvROAjgX-aKI7VIfPLFg	ShGdSdrfrJExgBmNmWoAkg	IEkC8dYPIOzGDUBBL2KQqg	1.0
5996876	LPnGdeEJyMMO02e02PqZBA	PSAXB8jU19xh4SA3BTlgRQ	6NXtVSpWnu8O-Niww58gFg	5.0
5996877	uGupeWqih0ylcCg8anM1PA	jmPdA6KeKCVWV6ukn0nnWA	6NXtVSpWnu8O-Niww58gFg	4.0
5996878	mG71gQ5HWI7ut9OCN6NJKA	cbOgU66-nb-75gT7pub28w	6NXtVSpWnu8O-Niww58gFg	4.0
5996879	Wxxvi3LZbHNIDwJ-ZimtnA	_q7Yp8Wzq3MigN_g2MJf1w	6NXtVSpWnu8O-Niww58gFg	5.0
5996880	g3t2AQQVT2tWD64Huu7xVA	Z2Amy721HzlB2GefuB-eXw	6NXtVSpWnu8O-Niww58gFg	4.0
5996881	VOAO6ip7GwK4McQZbRa60g	mZ4NOc8ktctY5GS48AtB5Q	nyrKpx9xOwEcCi_fLO3kVw	3.0
5996882	avkOlpslBUFZMQhELpl3JQ	nTOVaiioKG9aQ5ub_zTWOw	nyrKpx9xOwEcCi_fLO3kVw	1.0
5996883	uLL2uKqYnPAFwBw11LzDUQ	qcrjHOrYncli0KMYAbE_Zw	nyrKpx9xOwEcCi_fLO3kVw	1.0
5996884	vyQD-pu9jFKRXWI9tt16_Q	rdE4qjcfnPc6KNml2gK0MA	nyrKpx9xOwEcCi_fLO3kVw	2.0
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5996886	0w3BdEOxvwKTpypwbN5kiQ	kzbK_93AWA8w_lo1W3-yGQ	nyrKpx9xOwEcCi_fLO3kVw	5.0
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5996888	qmIHO-6T_KEfPC9jyGDamQ	aEAoxZn2h21E_OFjqQcm8g	nyrKpx9xOwEcCi_fLO3kVw	3.0
5996889	k8BqCejnaMlw7aoVthvqyw	43yVsgqs-wBac32lLQABlg	nyrKpx9xOwEcCi_fLO3kVw	1.0
5996890	YPK024huhY2np5hJ_5qWCw	RdtBCUx77wwZ0rensTdMoA	nyrKpx9xOwEcCi_fLO3kVw	1.0
5996891	_wnAPt7ehpybzQptYKNHxQ	3cpJ9HfPh6v-oLtAlpGv1w	nyrKpx9xOwEcCi_fLO3kVw	5.0
5996892	u3nwislXMKKwkpHAXAArbQ	OK-XVi6mcuhQ5A7ColBsXQ	nyrKpx9xOwEcCi_fLO3kVw	5.0
5996893	fcWkZgmzRsm3H4egzSrV_A	GSj0JWUlJbs8CAonUUavnQ	nyrKpx9xOwEcCi_fLO3kVw	5.0
5996894	Cr4ipl-tr-R8Q0NilkWNkA	IvBJEJ6zCliB9fjnYZ9YHg	nyrKpx9xOwEcCi_fLO3kVw	2.0
5996895	5CJL_2-XwCGBmOav4mFdYg	B5YpeY_SHetMyqKG92Lqsw	nyrKpx9xOwEcCi_fLO3kVw	5.0
5996896	SAIrNOB4PtDA4gziNCucwg	Nn1RzyhMTzE9mwm-pQxeWw	nyrKpx9xOwEcCi_fLO3kVw	5.0
5996897	Lq9rYrwvWV5QDBYzq7MGHQ	QDtUpAkDhQdVNV3S1TIAvw	nyrKpx9xOwEcCi_fLO3kVw	4.0
5996898	yfxDa8RFOvJPQh0rNtakHA	Z1-2c17hCxQjU_HFYQdg	nyrKpx9xOwEcCi_fLO3kVw	2.0
5996899	osu1j_Lg8R9brpuMMn3a3A	VBLEilvYRVcP6BWXoPkXQQ	0LJXM7Xi1tevvY68V9h_cw	4.0
5996900	F-NJWGBEGj_a-o_ifGACcw	TT4QNOMCYki1mvNmnpvnTg	RtTC5pKxiTkByTe_8LNUDA	5.0
5996901	KfaeDC-oPE6GTfBvdF9x7Q	UMWid0pKSaRo7iY2FuKKLw	VKnOOnj7VrbbZKPsUnDx5w	4.0
5996902	VjaHHmV-rSkFaOAnU3faxg	1-0FOkIQ_06vxJkL1LQzBg	VKnOOnj7VrbbZKPsUnDx5w	5.0
5996903	wWpw4gbA9B6VWt85351TvA	ZSolri6iueMmjh5LXpvwfA	VKnOOnj7VrbbZKPsUnDx5w	5.0
5996904	yvqMh9kTv3Kx-tocc0DFBQ	YHVzcL_J262G1n9C78053A	VKnOOnj7VrbbZKPsUnDx5w	5.0
5996905	CDLyT9EeaD4IIZmCCtTgHg	NYKyM4ZqZRlszZPjUq5_eQ	whGQN8LVi6pQqkuCioOXKw	5.0

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5996906	6ifzvhFl3Lgv3CNeHV2hsA	U3GhD9DBRg3eSXk52aQ7qw	KjKat8hKE6dthzHGLNn0vg	1.0
5996907	QfG4JZvFoFpRbAxU2Fn-UQ	JweKqU5iyhXVxMNGYrDTdw	KjKat8hKE6dthzHGLNn0vg	1.0
5996908	53BSdnhzcCBfBH_6TgX63Q	wUtk6gmMcH63J2QsF4ou2w	KjKat8hKE6dthzHGLNn0vg	3.0
5996909	ajoqEHnCZTD8-8GqGLq9-Q	PHCrDPUPXMd3oUunQtbrKQ	UyDpNcErsWlk8ATEXL23Dg	1.0
5996910	IMvPJEzcPoHdeQLu6_LHKw	2_leaZjwuZ3da2327R1VoA	MmvExV_0QeUQg1Ui0YG52Q	1.0
5996911	prcrTVScKNTfSu0wcle0DA	yYYUcrfJbXrPMkjqmX5u9g	MmvExV_0QeUQg1Ui0YG52Q	4.0
5996912	wKA2y-F_fPcBDOkpzDB9eQ	oGicKvhvFOmnUUDd27L9hQ	OzZ7FWocIL6XTozj4Ok4yg	5.0
5996913	YPavuOh2XsnRbLfl0DH2lQ	21YHXT8DBaaieUGUKq5Vjg	QPUtjpbE9O_BbFe27YmtLA	5.0
5996914	1WD2WT0klJT7t-zL5ZmfUw	JdHhWto3mwQlHePpDnzkkA	QPUtjpbE9O_BbFe27YmtLA	5.0
5996915	VuCrxI61nT30OndMcrPgkA	fFDuau-kYvTZtYE_krOhmw	iWb-6tFQqn1elLNkhKjnHQ	3.0
5996916	DmA7Kr-tHvxI4Ci2ygiG4w	oiD_g7ubfibWh7loSiduSg	iWb-6tFQqn1elLNkhKjnHQ	5.0
5996917	SOhDXouPwa6C5cf-3hcl2Q	vkEtjDaQrlTd7J2x94K4_g	MlvlhVuXb-mLCGEE42xBEg	5.0
5996918	prh-RlduJU3z3ynA5lU3Wg	GL5B6eQ4MiX6pORFYioOyw	MlvlhVuXb-mLCGEE42xBEg	2.0
5996919	ecM2lSLuZhxZKQdGZWMOFg	vLgAjx-RSEPED6jyT1gPBw	3LC2sKfvz_nWuJquUDsNnw	3.0
5996920	da3c-sAS3KM08YVnSOOBAQ	sglir75ftkvgy7tLIR8A	3LC2sKfvz_nWuJquUDsNnw	4.0
5996921	Ool3WUe4Xl86d53avy3oVA	42q3AKJTqClvAyMPAS3gRw	3LC2sKfvz_nWuJquUDsNnw	4.0
5996922	eFF000MRzjxMNvIUJkRogA	3xfcsjkdxtASAOBdCHpBjQ	3LC2sKfvz_nWuJquUDsNnw	4.0
5996923	wEisic-u9Yj543iYzfpAhw	jk8DUTd57B89eExy4psz0Q	3LC2sKfvz_nWuJquUDsNnw	4.0
5996924	VjaHHmV-rSkFaOAnU3faxg	xdM1wqaTwEP8XDzmtc308w	3LC2sKfvz_nWuJquUDsNnw	5.0
5996925	wX8btbqgyFh0yHgmyR8ovA	WezFip6qm3Ry4LXE0icWSw	3LC2sKfvz_nWuJquUDsNnw	5.0
5996926	ZliwQrjUnAosBLM8W_bsGQ	s7ZVVjMGccOO_zX9b9e3Aw	3LC2sKfvz_nWuJquUDsNnw	5.0
5996927	BwOo1dxSxGRCa_HaZZSLrQ	IaB-jYvYmnvzNlkdTRNFbA	3LC2sKfvz_nWuJquUDsNnw	4.0
5996928	58c9tCvjkDRONJq8h6NLzg	jlW5x4E_8phudfdsO5O-Mw	3LC2sKfvz_nWuJquUDsNnw	4.0
5996929	LDxapKCuUbH-G24O4vjD7g	f4UlfXzYoWt1QNn3q5x2YA	3LC2sKfvz_nWuJquUDsNnw	4.0
5996930	Jml9nslLD7KZqRrBg6NQ	C5Qq0xJhpbx1Jj02IIVthA	3LC2sKfvz_nWuJquUDsNnw	2.0
5996931	ny0AwrA3vjo3ZpYeRLJfqg	EjbCHA_C5MwpGjaeUP5oDQ	3LC2sKfvz_nWuJquUDsNnw	4.0
5996932	keQIXWfz2K7GukqaReVyow	B2yM14A9zW8_a6_a-7Sw	3LC2sKfvz_nWuJquUDsNnw	5.0
5996933	XI6I0-JmFE_6w28bku2idQ	VPDzGuUVA-hEyRBSB21_sQ	3LC2sKfvz_nWuJquUDsNnw	4.0
5996934	QylMuwQjVHo5ElzNLw9gpg	-LsA12hyH6hvS_QxTaM24A	3LC2sKfvz_nWuJquUDsNnw	1.0
5996935	Cb-XI9s4AboAeOO_T9LdnA	593BaCGHPfnQBwSnOrNVIQ	3LC2sKfvz_nWuJquUDsNnw	4.0
5996936	_Dp6Wfqqt4J0D5rHij-WqQ	XwPj_2GPjVZOJQAq-RS5OQ	3LC2sKfvz_nWuJquUDsNnw	5.0
5996937	3uFye5VIDqtBU5_TzSulyA	HOiBITzvr1w_aL6lnD_Ocg	3LC2sKfvz_nWuJquUDsNnw	3.0
5996938	b8u5AasAkEcqTwKlSjcHlw	SLa353i5N3p7Cc2ZS09lzg	3LC2sKfvz_nWuJquUDsNnw	5.0
5996939	NsEAgJ3Tf8PzW-8Pk8gyhQ	Q9j8UGILeEfv76WC36SjBA	3LC2sKfvz_nWuJquUDsNnw	4.0
5996940	Eydky7VulZijOJ37yl8IGQ	8PjXiNbcBN_ol0Z4lT7vUg	3LC2sKfvz_nWuJquUDsNnw	4.0
5996941	YLqO9xm5s0KJ9JzWukAk8Q	bp8k5LJJ2gA1tJK2e_M2sw	3LC2sKfvz_nWuJquUDsNnw	4.0
5996942	FoU5sNX7QPKahchxd0gHkQ	AoSiJWBh92XidYtFJ9JoYA	3LC2sKfvz_nWuJquUDsNnw	5.0
5996943	KU_FnvsuvhVT7aOzlErPlQ	Kr0KmY8miHCvuJ448tgFsw	3LC2sKfvz_nWuJquUDsNnw	4.0
5996944	S3-JpB5dBhMXmauMqeoN-g	fRkG9kWgQE9CrfmUAYk7-A	3LC2sKfvz_nWuJquUDsNnw	4.0
5996945	UyTYTtyZWym-7u84XMgSOQ	GfpQ1VWLVJw3RxitpNua_w	3LC2sKfvz_nWuJquUDsNnw	4.0
5996946	Y2Z1lg5l1E3PSU_GQQUW9Q	vu_TetuHr9U9gGNI0Zr7ow	3LC2sKfvz_nWuJquUDsNnw	4.0

		review_id	user_id	stars
5996947	NiBzh0kHusvH5rdnpm7yVw	-IFj1ETh0dMlRt2CHIVhgg	3LC2sKfvz_nWuJquUDsNnw	5.0
5996948	zINKP9rtvo2lUKTZoYJUvQ	YlwO7sm6WyvZZtOIz6AlSQ	3LC2sKfvz_nWuJquUDsNnw	5.0
5996949	5uMflYovqfgk41abdfFegw	1VxFnEq_zEtAKvpMvNUmzQ	3LC2sKfvz_nWuJquUDsNnw	5.0
5996950	hOxNKZJ8wWg8Q165U7CCqg	pN0Efzl0UsvUmTm136MERQ	3LC2sKfvz_nWuJquUDsNnw	5.0
5996951	Ty2BpVQNekxWC47yTD9Tpg	FssbmZ5eD-jc2gy_INAbEA	3LC2sKfvz_nWuJquUDsNnw	4.0
5996952	kOUnvmGamiw90BfmthoQGg	UkBlnRHz3Z4kNs181FdPvw	3LC2sKfvz_nWuJquUDsNnw	4.0
5996953	PLiVD2blqBDRzAAd1_RxxQ	EHZpTqoWiflJabCGX3MrSQ	3LC2sKfvz_nWuJquUDsNnw	4.0
5996954	RMEzxhYfpnEsWlfozit_xw	7UbZhPGBrQybhyO71cU_Ow	3LC2sKfvz_nWuJquUDsNnw	4.0
5996955	O-GefJqucTHDIYJSxVhEyA	d5VVGIfSR4Vg4OIEW7INsg	3LC2sKfvz_nWuJquUDsNnw	4.0
5996956	aRbUf7je5wv5ihTrB4vDhA	FKqNm6abpz8OFkdK_yHn-w	3LC2sKfvz_nWuJquUDsNnw	4.0
5996957	eJYvivWUp4Hdc9Tc8SaZPA	b2h52kc6MATq9XxqrtyhkQ	3LC2sKfvz_nWuJquUDsNnw	4.0
5996958	yPgUkQxj8CYPKF89HV65kg	ilWp9Wjiunc0Odwqj4tdbQ	3LC2sKfvz_nWuJquUDsNnw	4.0
5996959	GnODIDJz09LecpudDoynCg	25IPbi1X3PcmhAlQM7Js9A	3LC2sKfvz_nWuJquUDsNnw	4.0
5996960	G65yipCa-UKCcZTH135IAw	c4Yqc0RAeEj_hHjxwic20g	3LC2sKfvz_nWuJquUDsNnw	4.0
5996961	QIAPX3c0Vm2dU_w3pulAlw	spW-33DkohXQWZwNfAbomA	3LC2sKfvz_nWuJquUDsNnw	5.0
5996962	uqnFLc-1MxWw5f4SIyEf4Q	hsF8hi6ZUPRKMItHRQIL3Q	3LC2sKfvz_nWuJquUDsNnw	5.0
5996963	Xc3Y8_cWBnMVXvoJmGCh4g	rBO_PjDHriahy970x_HBXg	3LC2sKfvz_nWuJquUDsNnw	2.0
5996964	rWTC3Hg5DKoQ_dTrcuSJgw	9lyMT8Or19Zc_fuvTpXXbA	3LC2sKfvz_nWuJquUDsNnw	5.0
5996965	t67GMPZ0cv_ltKIID-JFiQ	ysQ3Qx_f04FohSjz9t3OtA	3LC2sKfvz_nWuJquUDsNnw	5.0
5996966	Trs4cEYdP6AX_KihTk9kWQ	Hb3oB54DF_IQ5qKdbFOPEA	3LC2sKfvz_nWuJquUDsNnw	4.0
5996967	G099MT9cwtwgdsR71JLp6w	cb78W5sXIK7XeyIbam50Ww	3LC2sKfvz_nWuJquUDsNnw	5.0
5996968	wsmVIHJEi9J_38dXx2qLKA	qyqGOVBJUBrpGH5-esjDmQ	3LC2sKfvz_nWuJquUDsNnw	3.0
5996969	j1i7s55PmOFzJC3l6O8PiA	kfvdlT60V5bi1eBS7yMUZg	3LC2sKfvz_nWuJquUDsNnw	4.0
5996970	zjwdU1OdlbKTGjm-lfD4TQ	GAuxhKaWFOpV0oW1WgecZA	3LC2sKfvz_nWuJquUDsNnw	3.0
5996971	ceuvH6NpDhpT1p4q1w93pA	x6F0rFxDX-wsjsH42h-MjA	3LC2sKfvz_nWuJquUDsNnw	4.0
5996972	HHCn1akqlpl_BhdcJoYPbw	1odUI7uijuOhj6X01xCm2w	3LC2sKfvz_nWuJquUDsNnw	4.0
5996973	vzqzoa-plufwTsQUwW_s6Q	gHYYDw64i9I_71n_ITOdWw	3LC2sKfvz_nWuJquUDsNnw	4.0
5996974	7mjfLQctbrHXWMsxGszQlQ	Qk5hVZ0Sccbl4LoUrh7mdg	3LC2sKfvz_nWuJquUDsNnw	4.0
5996975	3-HFGxmbzSax-NySJ_LzDg	CdVHl2JobRdpp5S61Jj-1Q	3LC2sKfvz_nWuJquUDsNnw	5.0
5996976	ogllZt5mg2nErhpTH_AakQ	6CrfJ25LHrF4bDuW1U-oGg	3LC2sKfvz_nWuJquUDsNnw	4.0
5996977	OPSNdO3LNPMt7qz1MNb42g	UwdDj23NbmBMRKtWQ4nWVQ	IDh4clMpgeeVVTEX2utfsQ	5.0
5996978	CA4qhLICQWX0H_bf9iGw0Q	abRHj_fLXNgjDOCgHQYG0A	QfgwyTHxqs6pr0BLl2HaUg	1.0
5996979	oJPInRXXXLwG_89I-5cliQ	gUe27XrPVVf2gdst_vWl2A	QfgwyTHxqs6pr0BLl2HaUg	5.0
5996980	JcMx_Ply0ROIIJWens4TAQ	PIF-NeBZI52xA9QmkF3y7A	QfgwyTHxqs6pr0BLl2HaUg	5.0
5996981	gRMYm-CeEdjXtaQcVo8vsw	EHGBEgKb4R0uswU2uK1Zrw	QfgwyTHxqs6pr0BLI2HaUg	1.0
5996982	WbS58nfQQZaxWk1BUPBuJQ	9YrHtJcAhC6ZNuzp6SGc9w	uDGQYAIUSne3LKKhTAvKLg	4.0
5996983	hGBdtLUHanbw6rMRoMxUSQ	jQ0UKnDQUYpRQoJRrzo5Mw	uDGQYAIUSne3LKKhTAvKLg	5.0
5996984	XF7cEaCGuPkt1yuz77jeTQ	Rw1bWfW2UQ3hXQjWY5TKgQ	uDGQYAIUSne3LKKhTAvKLg	5.0
5996985	aLcFhMe6DDJ430zelCpd2A	tq2d5d78ig42XH8CFLKULQ	uDGQYAIUSne3LKKhTAvKLg	4.0
5996986	R_fQGSUQv0L_fRiuua47dw	zhYk0aPITQFNUbPYg1qt_Q	hDamkEc4NvaXDMD1CMtG2A	5.0

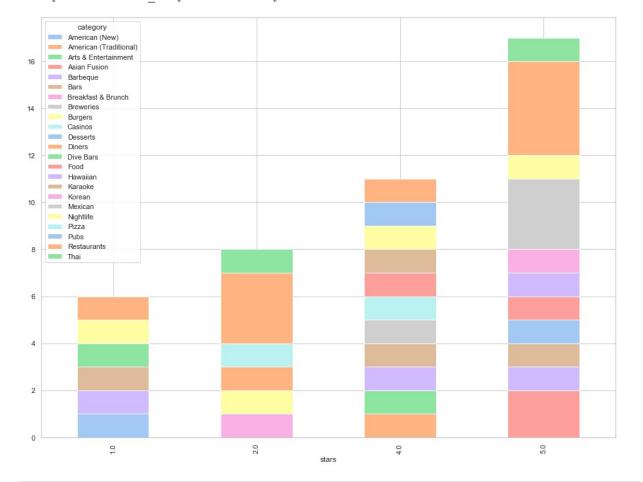
7/31/2020, 3:17 PM

```
In [76]: def df_user_reviews(arg_user_id):
             df22 = u_data[u_data.user_id == arg_user_id]
             df22 = df22.merge(r_data, how = 'inner', on = 'user_id')
             df22 = df22.merge(b data, how = 'inner', on = 'business id')
             rename dict = {'name x':'user name', 'name y':'business name'}
             df22.rename(columns = rename dict, inplace = True)
             df22.categories = df22.categories.str.split(',')
             df22 = df22[['user id', 'user name', 'business id', 'business name', 'categories', '
         review_id','stars']]
             result list = list()
             for index, row in df22.iterrows():
                  for val in row['categories']:
                         val = val.strip()
                         t1 = (row['user id'], row['user name'], row['business id'], row['busin
         ess_name'],val,row['review_id'],row['stars'])
                         result_list.append(t1)
             result_df = pd.DataFrame(result_list, columns =['user_id', 'user_name', 'business
          _id','business_name','category','review_id','stars'])
             result_df['rec_count'] = 1
             return result_df
```

Out[77]:

	stars	category	rec_count
32	5.0	Restaurants	4
30	5.0	Mexican	3
23	5.0	Asian Fusion	2
24	5.0	Barbeque	1
25	5.0	Bars	1
26	5.0	Desserts	1
27	5.0	Food	1
28	5.0	Hawaiian	1
29	5.0	Korean	1
31	5.0	Nightlife	1
33	5.0	Thai	1
12	4.0	American (Traditional)	1
13	4.0	Arts & Entertainment	1
14	4.0	Barbeque	1
15	4.0	Bars	1
16	4.0	Breweries	1
17	4.0	Casinos	1
18	4.0	Food	1
19	4.0	Karaoke	1
20	4.0	Nightlife	1
21	4.0	Pubs	1
22	4.0	Restaurants	1
10	2.0	Restaurants	3
6	2.0	Breakfast & Brunch	1
7	2.0	Burgers	1
8	2.0	Diners	1
9	2.0	Pizza	1
11	2.0	Thai	1
0	1.0	American (New)	1
1	1.0	Barbeque	1
2	1.0	Bars	1
3	1.0	Dive Bars	1
4	1.0	Nightlife	1
5	1.0	Restaurants	1

Out[78]: <matplotlib.axes._subplots.AxesSubplot at 0x1b4164002e8>



In [79]: f'This visualization is flawed as every business has multiple bussiness categories
 associated with it with there are no primary business category identified. So numbe
 r of observations multiply duing tidying up exercise.'

Out[79]: 'This visualization is flawed as every business has multiple bussiness categorie s associated with it with there are no primary business category identified. So number of observations multiply duing tidying up exercise.'