

TORONTO NEIGHBORHOOD FOR

FOOD LOVER



PART I: PURPOSES

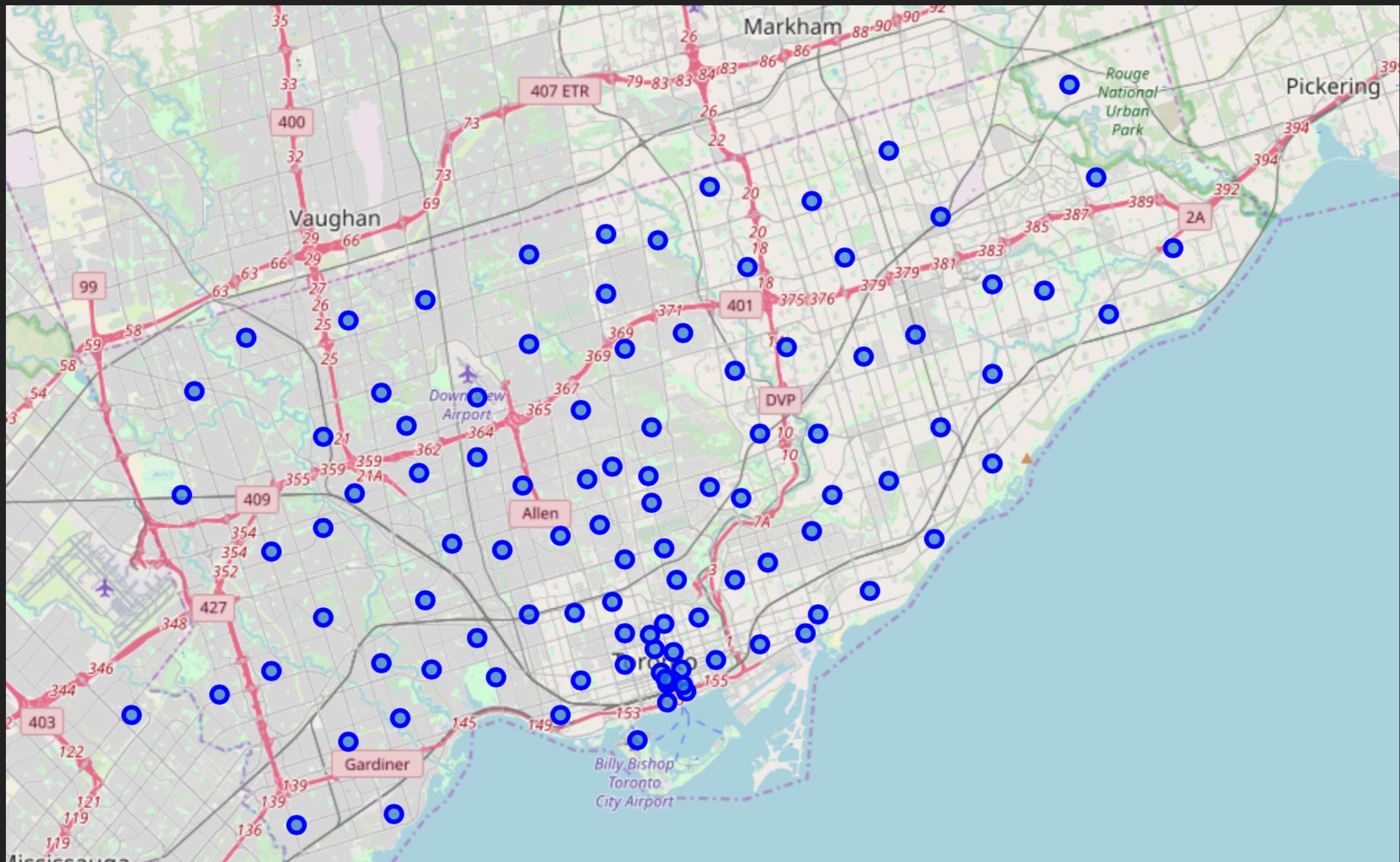
- 1. FOR TRAVELLER FINDING GREAT FOOD**
- 2. FOR FOOD LOVER HOW IS PLANNING TO MOVE INTO THE CITY**
- 3. COMPANY THAT WANT TO OPEN A NEW RESTAURANT WITH LESS COMPETITOR.**

PART II DATA COLLECTING AND CLEANING

- ▶ list of the neighborhood - data from Wikipedia.
- ▶ Restaurants data from FourSquare and show the map.
- ▶ Cleaning the data; drop the place such as “store”.
- ▶ Reform the data that contains only six features.

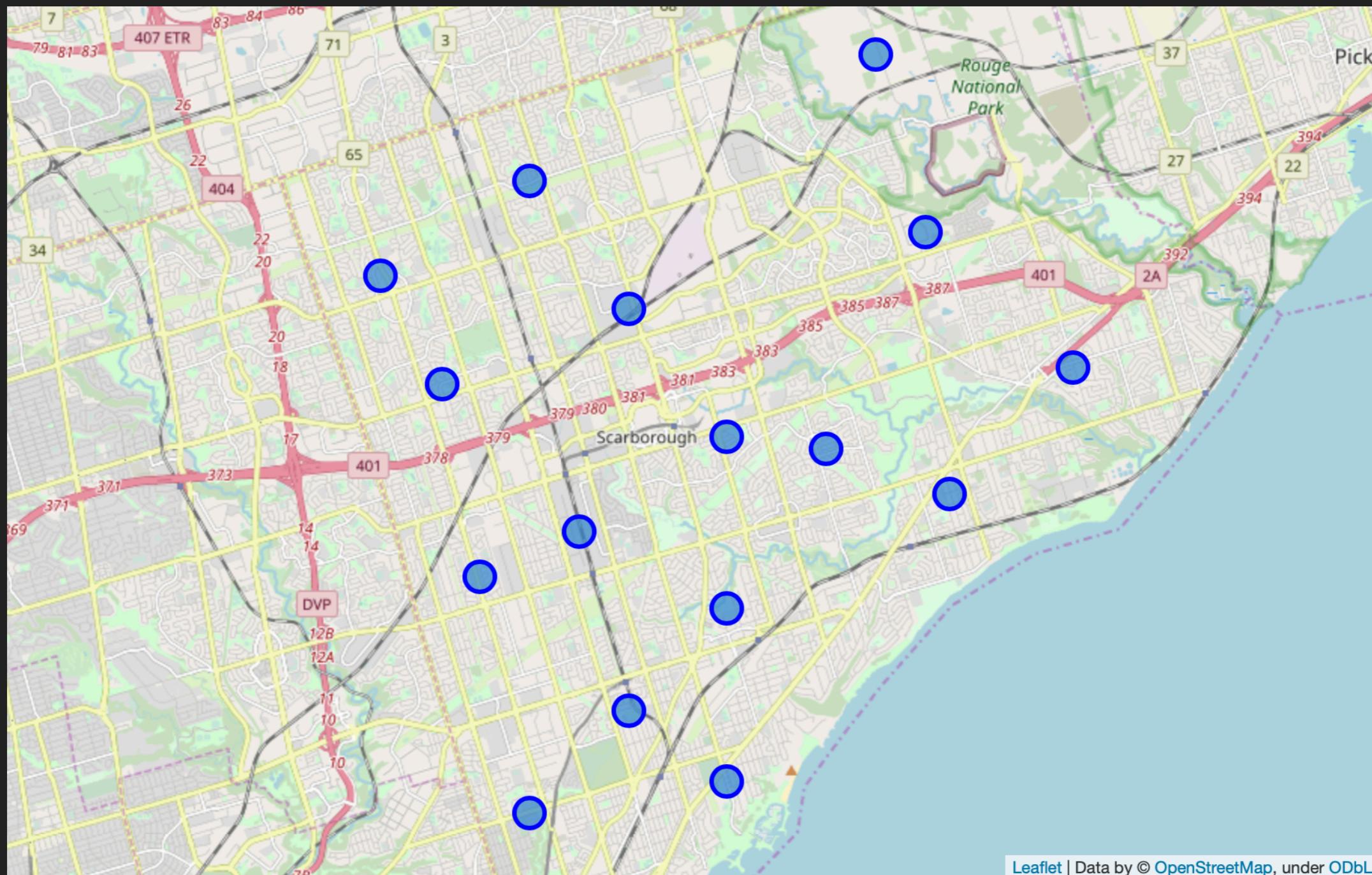
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MAP OF TORONTO WITH ALL NEIGHBORHOOD



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CLUSTERING THE LAST STAGE



CLEANED DATASET

- ▶ After the data set has been reformed, we have every restaurant's post code along with the latitude, longitude, venue, rating, category, and distance from central.
- ▶ The following charts is showing the first five as an example.

	Postal Code	Neighborhood	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Summary	Venue Category	Distance
0	M1B	Rouge, Malvern	43.806686	-79.194353	Images Salon & Spa	This spot is popular	Spa	595
1	M1B	Rouge, Malvern	43.806686	-79.194353	Caribbean Wave	This spot is popular	Caribbean Restaurant	912
2	M1B	Rouge, Malvern	43.806686	-79.194353	Staples Morningside	This spot is popular	Paper / Office Supplies Store	735
3	M1B	Rouge, Malvern	43.806686	-79.194353	Wendy's	This spot is popular	Fast Food Restaurant	600
4	M1B	Rouge, Malvern	43.806686	-79.194353	Wendy's	This spot is popular	Fast Food Restaurant	387

CLEANED DATASET PART TWO

- Our dataset now are showing all the store in the mapping area, in order to find out the restaurants, we need to drop most of them.

There are 111 uniques categories.

Here is the list of different categories:

```
['Spa',  
 'Caribbean Restaurant',  
 'Paper / Office Supplies Store',  
 'Fast Food Restaurant',  
 'Coffee Shop',  
 'Hobby Shop',  
 'Bus Station',  
 'African Restaurant',  
 'Auto Workshop',  
 'Chinese Restaurant',  
 'Greek Restaurant',  
 'Fruit & Vegetable Store',  
 'Gym',  
 'Bakery',  
 'Sandwich Place',  
 'Burger Joint',  
 'Italian Restaurant']
```

```
'Cajun / Creole Restaurant',  
 'Cantonese Restaurant',  
 'Caribbean Restaurant',  
 'Chinese Restaurant',  
  
 'Diner',  
  
 'Fast Food Restaurant',  
 'Fish Market',  
 'Food & Drink Shop',  
 'Fried Chicken Joint',  
 'Fruit & Vegetable Store',  
  
 'Greek Restaurant',  
 'Grocery Store',  
  
 'Hakka Restaurant',  
  
 'Hotpot Restaurant',  
  
 'Indian Restaurant',  
  
 'Italian Restaurant',  
 'Japanese Restaurant',  
 'Korean Restaurant',  
 'Latin American Restaurant',  
  
 'Malay Restaurant',
```

DATASET READY

- After the cleaning work, we now have a clean chart which showing all kinds of restaurant in the area.

	African Restaurant	American Restaurant	Asian Restaurant	BBQ Joint	Bakery	Breakfast Spot	Burger Joint	Cajun / Creole Restaurant	Cantonese Restaurant	Caribbean Restaurant	Chinese Restaurant	Diner	Fast Food Restaurant	Fi
Neighborhood	0	1	1	0	2	1	0	0	1	2	6	0	0	0
Agincourt	0	1	1	0	2	1	0	0	1	2	6	0	0	0
Agincourt North, L'Amoreaux East, Milliken, Steeles East	0	0	0	1	2	0	0	0	0	1	4	0	0	1
Birch Cliff, Cliffside West	0	0	1	0	0	0	0	0	0	0	0	1	1	1
Cedarbrae	0	0	1	0	3	0	1	0	0	1	1	0	0	1
Clairlea, Golden Mile, Oakridge	0	0	0	0	2	0	0	0	0	0	0	1	1	2

RESULT

- ▶ From this chart, we can easily tell that G1(Agincourt) has the most restaurant and G4(Highland Creek) has the least.
- ▶ For company who want to invest restaurant should visit G4 since they will face less competitor and for food lover should visit G1 which is the food paradise!

	Bakery	Breakfast Spot	Diner	Fish Market	Food & Drink Shop	Fruit & Vegetable Store	Grocery Store	Noodle House	Pizza Place	Sandwich Place	Total Restaurants	Total Joints	Total Sum
G1	2.000000	1.000000	0.000000	0.0	0.0	0.0	1.0	1.0	2.0	2.0	19.0	0.000000	28.000000
G5	1.500000	0.000000	0.000000	0.0	0.0	0.0	1.0	0.5	1.5	1.5	12.5	2.500000	21.000000
G3	1.800000	0.400000	0.000000	0.2	0.0	0.2	0.8	0.2	1.4	0.4	8.0	1.200000	14.600000
G2	0.000000	0.500000	0.000000	0.0	0.5	0.0	0.0	0.0	3.5	0.5	3.0	2.000000	10.000000
G4	0.333333	0.166667	0.333333	0.0	0.0	0.0	0.5	0.0	0.5	0.5	3.5	0.333333	6.166667

**THANK
YOU.**