Choosing the leading place to open up a Mexican restaurant within the Toronto Area

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March 19,2020

1. Introduction

1.1 Depiction of the problem

Toronto's competitive gastronomy scene is an amazing one as it is a clash of different chefs and restaurateurs who always bring individuals brand-new places and cuisines to try. But, where is the leading place to open up a Mexican restaurant within the noteworthy Toronto Area?

As a result of a constantly growing population of Toronto, diversity of nations, and increasing demand for new cuisine experience, but also recognizing the fact that opening a restaurant requires significant investment, it would appear to be a great choice to open up a Mexican restaurant within the core of the city. The question to be answered at that point is, which neighborhoods in Downtown Toronto would be the best choice.

1.2 Discussion of the background

Research has been requested by a prosperous and fruitful restaurateur from Mexico who is keen on expanding trade operations into Toronto. He needs to make a genuine Mexican restaurant that will serve and offer the complete lavishness of Mexican culture and cooking to the individuals of Downtown Toronto.

Since Downtown Toronto is exceptionally ambitious in terms of the restaurant domain, my client needs an understanding of the market in order to choose in which neighborhood to set up this trustworthy Mexican diner.

2. Data acquisition and cleaning

2.1 Description of the data

The project will utilize freely accessible information from Wikipedia and Foursquare. Precisely, all Toronto neighborhood complex elements besides their postal codes are accessible here: https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M. The center of this venture will be the Downtown Toronto neighborhoods that will be analyzed accordingly. The Foursquare API will be used to get the geological area information for Downtown Toronto, and data will be utilized to investigate the eatery within the neighborhoods. The restaurants will give the categories required for the investigation and these will be utilized to decide the reasonability of the chosen areas for the Mexican food establishment.

2.2 How information will be utilized to find a solution

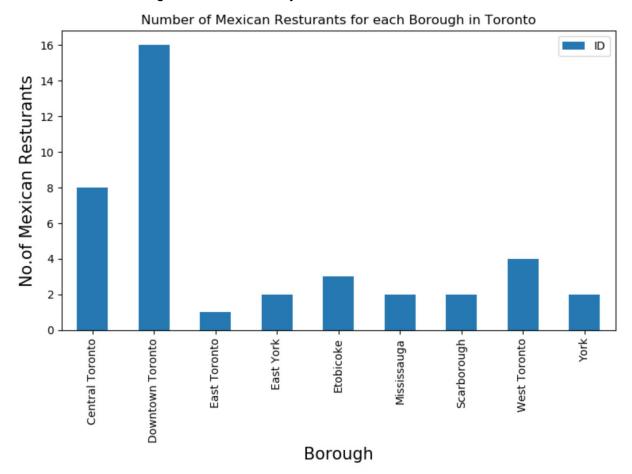
The information from Wikipedia and Foursquare will be investigated and analyzed by restaurants in Toronto. The eateries from the center of the city will be checked on in terms of the sorts of categories of eateries inside a particular radius. The information will be utilized to come up with a recurrence examination for a Mexican restaurant in Toronto and to come up with the most accurate choices of neighborhoods for the client.

3. Methodology

- 1. Scraping data from wikipedia
- 2. Getting the coordinates of the target place.
- 3. Getting the list of neighborhoods and their coordinates.
- 4. Eliminating some of the boroughs.
- 5. Exploring the most visited venues in the target localities.
- 6. Clustering the localities with k-mean algorithm.
- 7. Analyzing the clusters formed.

4. Results

4.1 Elimination of Boroughs that have already Mexican Restaurants

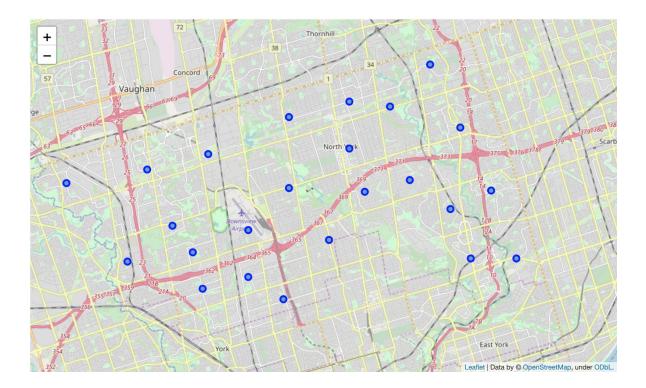


4.2 Scraping data from wikipedia to choose Borough that has a large number of Latin American minorities and does not have Mexican Restaurant in the area.

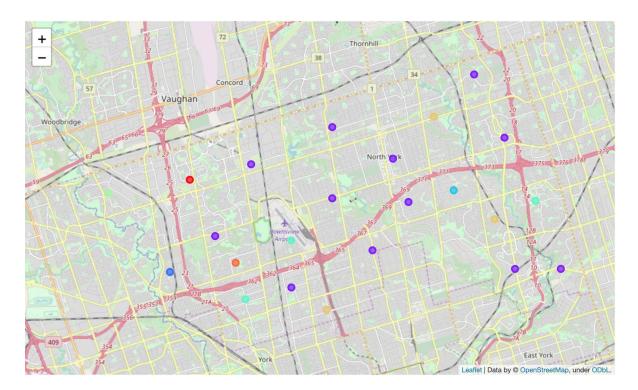
Ethnic groups Source: 2016	Population	%	
Ethnic origins	European	349,150	40.6%
	East Asian	123,280	14.3%
	Southeast Asian	85,115	9.9%
	Black	84,415	9.8%
	South Asian	75,995	8.8%
	Middle Eastern	49,060	5.7%
	Latin American	35,840	4.2%
	Aboriginal	7,035	0.8%
	Other	4,165	0.5%
Total population		869,401	100%

		٧	isible minority and Ab	original popula	tion ^{[30][31][32]}		,
Popula	tion group +	Population (2016)	% of total population (2016)	Population (2011)	% of total population (2011)	Population (2006)	% of total population (2006)
European (White)		1,282,750	47.7%	1,292,365	50.2%	1,300,330	52.5%
Visible minority group	South Asian	338,965	12.6%	317,100	12.3%	298,370	12%
	Chinese	299,460	11.1%	278,390	10.8%	283,075	11.4%
	Black	239,850	8.9%	218,160	8.5%	208,555	8.4%
	Filipino	152,715	5.7%	132,445	5.1%	102,555	4.1%
	Latin American	77,160	2.9%	71,205	2.8%	64,855	2.6%
	Arab	36,030	1.3%	28,920	1.1%	22,485	0.9%
	Southeast Asian	41,645	1.5%	46,825	1.8%	37,495	1.5%
	West Asian	60,325	2.2%	50,235	2%	42,755	1.7%
	Korean	41,640	1.5%	37,225	1.4%	34,220	1.4%
	Japanese	13,410	0.5%	12,315	0.5%	11,965	0.5%
	Visible minority, n.i.e.	36,975	1.4%	33,670	1.3%	25,195	1%
	Multiple visible minorities	47,675	1.8%	37,920	1.5%	31,100	1.3%
Total visible m	ninority population	1,385,850	51.5%	1,264,395	49.1%	1,162,630	46.9%
Aboriginal group	First Nations	14,380	0.5%	12,990	0.5%	9,130	0.4%
	Métis	7,270	0.3%	4,875	0.2%	3,650	0.1%
	Inuit	275	0%	305	0%	195	0%
	Aboriginal, n.i.e.	645	0%	920	0%	485	0%
	Multiple Aboriginal identities	500	0%	180	0%	145	0%
Total Aborigin	al population	23,065	0.9%	19,265	0.7%	13,605	0.5%
Total population	on	2,691,665	100%	2,576,025	100%	2,476,565	100%

4.2 Choosing North York as brought that have half of population of Latin America minority and no Mexican Restaurant in Area



4.3 Clustering with use of k-means methodology to divide it into 7 groups with similar properties.



5. Discussion

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Manor,Lawrence

Heights

Store

Home Store

#1st Cluster north_york_2.loc[north_york_2['Cluster Labels'] == 0, north_york_2.columns[[2] + list(range(6, north_york_2.shape[1]))]] 10th 11th 1st Most 3rd Most 4th Most 5th Most 6th Most 7th Most 8th Most 9th Most 12th Most 13th Most Most Most Most Neighborhood Common Venue Comfort Construction Downsview Coffee Grocery Athletics Liquor Discount Concert Convenience Cosmetics Deli / Department Dim Sum 15 Food Northwest Shop Store & Sports Store Hall Store Shop Bodega Store Restaurant Store Restaurant Landscaping #2nd Cluster north_york_2.loc[north_york_2['Cluster Labels'] == 1, north_york_2.columns[[2] + list(range(6, north_york_2.shape[1]))]] 11th Mc 4th Most 8th Most 1st Most 2nd Most 3rd Most 5th Most 6th Most 7th Most 9th Most 10th Most Neighborhood Common Common Common Common Common Common Common Common Common Comm Common Venue Fried Comfort Construction Golf Athletics & Mediterranean Furnitur Hillcrest Village Pool Dog Run Food Truck Chicken Food Concert Hall Course Sports Restaurant Home Sto Joint Restaurant Landscaping Toy / Game Henry Clothing Fast Food Women's Japanese Convenience Liqu Coffee Shop Juice Bar Bakery Food Court Farm,Oriole,Fairview Store Middle Ramen Sandwich Sushi Indonesian Mo 4 Willowdale South Pizza Place Coffee Shop Shopping Mall Restaurant Café Eastern Restaurant Restaurant Place Restaurant Thea Restaurant Construction Convenience Women's Discount Comfort Food Concert Cosmetics Deli / Departme York Mills West Bodega Store Store Store Restaurant Hall Shop Sto Landscaping Comf Discount Grocery Department Frozen 6 Willowdale West Bank Pizza Place Butcher Coffee Shop Food Court Store Yogurt Shop Restaura Flemingdon Park.Don Coffee Chinese Italian Dim Su Asian Concert Japanese Beer Store Gym Restaurant Clothing Store Restaurant Restaurant Restaurant Shop Restaurant Wilson Heights.Downsview Coffee Ice Cream Bridal Sandwich Convenience Shoppi 10 Diner Deli / Bodega Pizza Place Restaurant Pharmacy North,Bathurst Shop Shop Place Store Shop York Construction Furniture / Caribbean Miscellaneous Massage Convenience Cosmet 11 University, Northwood Home Coffee Shop Concert Hall Restaurant Shop Studio Store Sh Park Store Landscaping Construction Comfort Food Concert Cosmetics Grocery Discount Convenience De 13 Downsview West Park Hotel Bank Shop Store Store Restaurant Bode Landscaping Construction Coffee Portuguese Discount Comfort Food Concert Convenience Cosmetics De 16 Victoria Village Hockey Arena Intersection 2 Shop Restaurant Store Store Bode Restaurant Hall Shop Landscaping Lawrence Manor Sandwich Italian Greek Comfort Food Pizza Liqu 17 Coffee Shop Restaurant Pharmacy Butcher Café East Bedford Park Place Restaurant Restaurant Restaurant Place Sto Lawrence Coffee Clothing Furniture / Vietnamese Event Miscellaneous Accessories Electron

Shoe Store

Shop

Shop

Bar

Boutique

Restaurant

Space



After reviewing the data of each cluster, I have some discussions:

1. In **Cluster 1** most common venue is Coffee Shop and Grocery Shop so it is a good place to open restaurant

- 2. **Cluster 2** is very occupied with many different venues but not Mexican one. It may be a good place to open a restaurant, but it may need additional marketing activities to stand out. Recommended place.
- 3. **Clusters 3-6** have the potential to open a Mexican Restaurant, but it is quite clear that those areas aren't very focused on the restaurant market, so potential may be low.
- 4. **Clusters 7** is focused on Asia food so it may be a bad place for Mexican Restaurant as it may be a place where Asian minority lives

6. Conclusion

Taking into consideration results of analyze I would strongly recommend Humberlea and Emery Neighborhoods as a place to open Mexican Restaurant as this area:

- 1. Have many restaurants so this is the area where people are heading to eat.
- 2. Have no Mexican Restaurant open.
- 3. North York is a Borough of the Toronto Area where half of the population of Latin America minorities is living, which is a strong argument to set up Mexican Restaurant there.

