

Exploring Malaysia ...

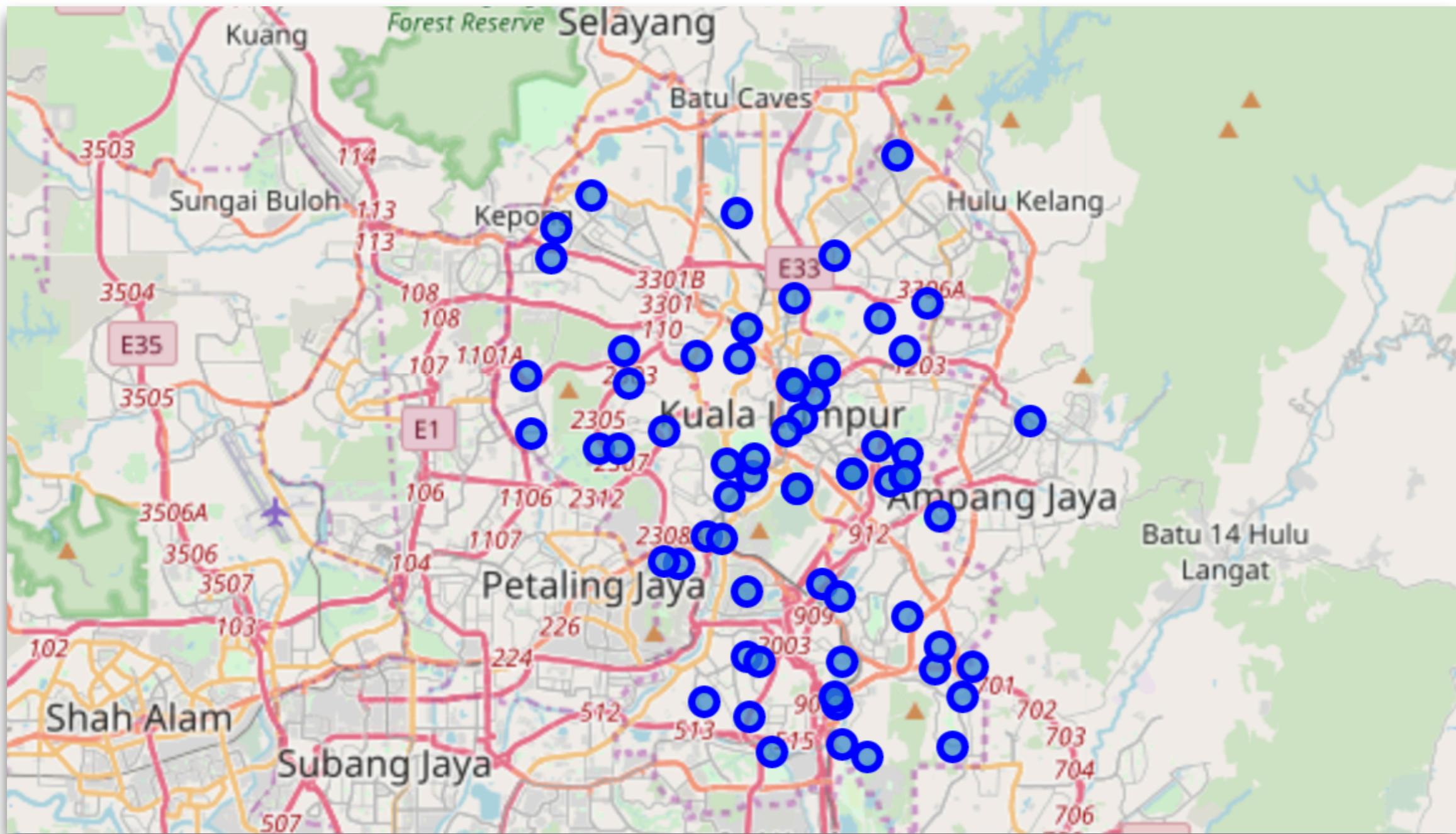
- Mostafa Adel



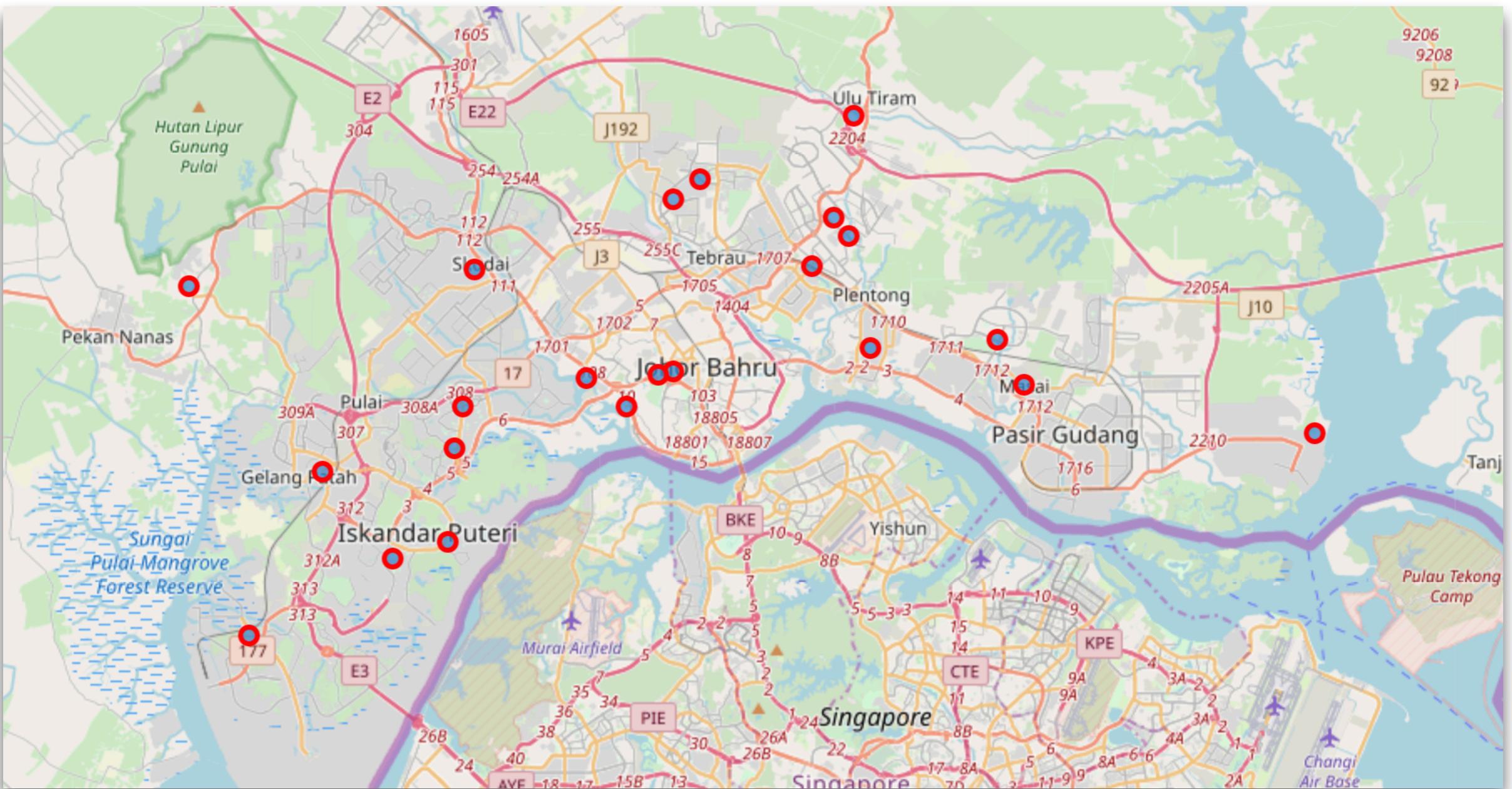
Kuala Lumpur and Johor Bahru Sightseeing

- Generally, Malaysia is an asian country that become a center of attention for education, tourism, and shopping.
- Kuala Lumpur and Johor Bahru are the most popular cities among Malaysia.
- Tourists visiting these cities are in need for adequate analysis to iterate the top areas within the city.

Points of interest located at KL (using Google API)



Points of interest located at JB (using Google API)



Classify and segment the areas using Foursquare

	Area	Area Latitude	Area Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
0	Bukit Indah	1.478332	103.654542	Subway	1.480537	103.656018	Sandwich Place
1	Bukit Indah	1.478332	103.654542	TGV Cinemas	1.482024	103.656241	Multiplex
2	Bukit Indah	1.478332	103.654542	Starbucks	1.481445	103.656229	Coffee Shop
3	Bukit Indah	1.478332	103.654542	Thai Relax Massage	1.479739	103.657446	Spa
4	Bukit Indah	1.478332	103.654542	Soul Thai Restaurant	1.480937	103.656256	Thai Restaurant

	Area	Area Latitude	Area Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
0	KL Sentral	3.134339	101.686337	Hilton Kuala Lumpur	3.135405	101.685690	Hotel
1	KL Sentral	3.134339	101.686337	Family Mart	3.132960	101.687480	Convenience Store
2	KL Sentral	3.134339	101.686337	Hilton Executive Lounge	3.135923	101.685782	Hotel Bar
3	KL Sentral	3.134339	101.686337	Aloft Kuala Lumpur Sentral	3.132767	101.686094	Hotel
4	KL Sentral	3.134339	101.686337	Aloft Hotel Grand Ballroom	3.133410	101.686029	Hotel

Grouping and ordering the top rated venues

-----Bukit Nanas-----

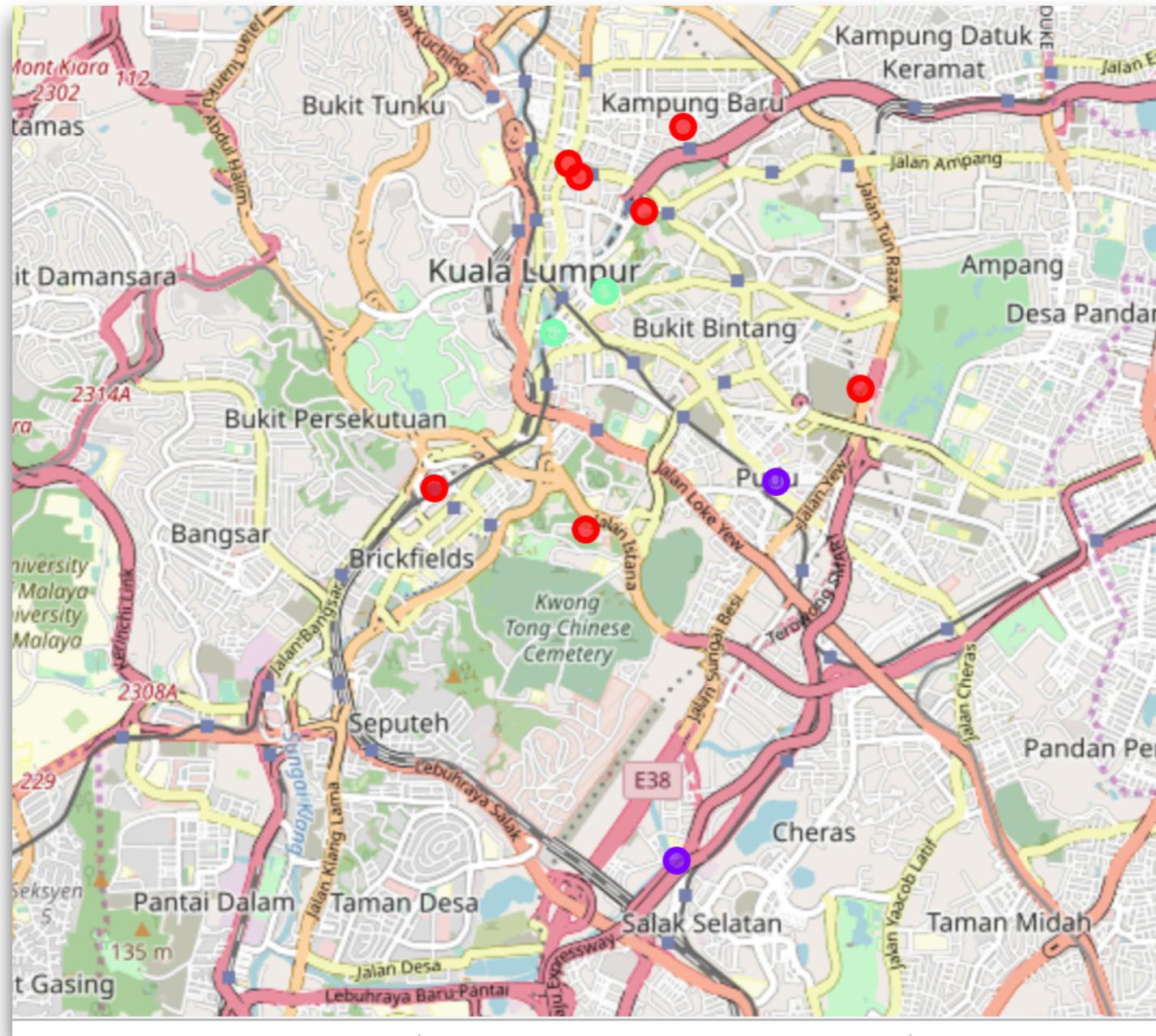
	venue	freq
0	Indian Restaurant	0.14
1	Café	0.09
2	Malay Restaurant	0.07
3	Coffee Shop	0.05
4	Adult Boutique	0.02

-----Bukit Petaling-----

	venue	freq
0	Malay Restaurant	0.29
1	Breakfast Spot	0.06
2	Travel & Transport	0.06
3	Food Court	0.06
4	Museum	0.06

Area	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue	7th Most Common Venue	8th Most Common Venue	9th Most Common Venue	10th Most Common Venue	
0	Bukit Nanas	Indian Restaurant	Café	Malay Restaurant	Coffee Shop	Zoo	General Travel	Road	Noodle House	Monument / Landmark	Latin American Restaurant
1	Bukit Petaling	Malay Restaurant	Convenience Store	Food Court	Park	Museum	Seafood Restaurant	Falafel Restaurant	Building	Breakfast Spot	Outlet Store
2	Chow Kit	Malay Restaurant	Hotel	Asian Restaurant	Chinese Restaurant	Coffee Shop	Food Court	Bakery	Soup Place	Indian Restaurant	Dim Sum Restaurant
3	Dang Wangi	Hotel	Malay Restaurant	Soup Place	Spa	Bar	French Restaurant	Sandwich Place	Restaurant	Café	Chinese Restaurant
4	KL City Centre	Indian Restaurant	Hotel	Asian Restaurant	Chinese Restaurant	Coffee Shop	Food Truck	Café	Malay Restaurant	Convenience Store	Restaurant

Clustering the areas using K-means



Conclusion

- Using Foursquare API, we have collected a huge amount of data for the venues recommendations across Malaysia top cities.
- Useful model built to facilitate analyzing the top rated venues.
- K-means clustering assist us in identifying the data points aggregated together.
- The model has a room for improvement via analyzing the similarities between both of cities.