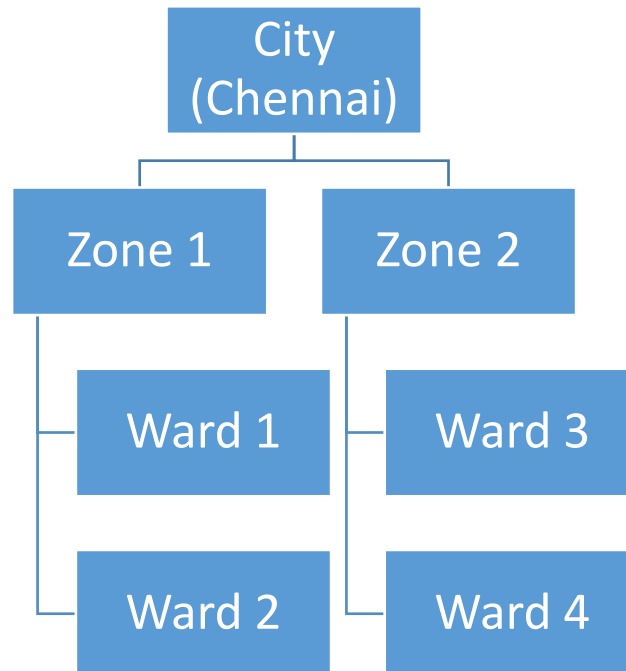


The Battle of the Neighborhoods – Data

1. **Objective** : Find the highly populated Regions in Chennai

Reference : https://en.wikipedia.org/wiki/List_of_Chennai_Corporation_zones



In Chennai, population data is available at the ward level.

2. Identification of data required

- Areas / Wards in Chennai
- Population in each of the areas
- List of hospitals in the neighborhood of the highly populated area

3. Identify Data Sources

- Wards in Chennai : can be obtained by scrapping the below web page

<http://www.tamilselvi.com/List-of-Corporation-wards-in-Chennai.html>

Ward No.		Ward Name
1	1	Kodungaiyur (West)
2	2	Kodungaiyur (East)
3	3	Dr.Radhakrishnan Nagar (North)
4	4	Cheriyar Nagar (North)
5	5	Jeeva Nagar (North)

- Population in each of the ward is available in Population.xls. This file is downloaded from below URL

https://data.gov.in/catalog/area-wise-population-within-corporations-and-municipalities-tamil-nadu?filters%5Bfield_catalog_reference%5D=85975&format=json&offset=0&limit=6&sort%5Bcreated%5D=desc

State Code	District Code	Tahsil/ Sub-District Code	Town/ Village Code	Ward Code	Enumeration Block Code	Level	Name	Total/ Rural/ Urban	Total - Persons	Total - Males	Total - Females	Scheduled Caste - Persons	Scheduled Caste - Males	Scheduled Caste - Females	Scheduled Tribe - Persons
33	2	0	0	0	0	DISTRICT	Chennai	Total	4343645	2219539	2124106	598110	301835	296275	6728
33	2	0	0	0	0	DISTRICT	Chennai	Rural	0	0	0	0	0	0	0
33	2	0	0	0	0	DISTRICT	Chennai	Urban	4343645	2219539	2124106	598110	301835	296275	6728
33	2	0	40201000	0	0	TOWN	Chennai (M Corp.)	Urban	4343645	2219539	2124106	598110	301835	296275	6728
33	2	0	40201000	1	0	WARD	Chennai (M Corp.) - Ward No.1	Urban	57723	29449	28274	4477	2271	2206	46

- List of all Hospitals in the neighborhood from foursquare

Use geographical coordinates data of the 'highly populated ward' as input for the Foursquare API. As the focus is on finding the list of hospitals, hospital as a venue category is another input.

The below is image of the Foursquare API data

name	categories	referralId	hasPerk	location.lat	location.lng	location.labeledLatLngs	location.distance	location.postalCode	location.cc	location.c
Parms Laboratory	[[{"id": "4f4531b14b9074f6e4fb0103", "name": "M..."}]]	v-1592507526	False	13.104899	80.207886	[[{"label": "display", "lat": 13.104899, "lng": ...}]]	1438	600049	IN	Chen
Madras Medical Mission (MMM Hospital)	[[{"id": "4bf58dd8d48988d196941735", "name": "H..."}]]	v-1592507526	False	13.085986	80.187398	[[{"label": "display", "lat": 13.085986, "lng": ...}]]	4401	600037	IN	Chen
MaxiVision Eye Hospital	[[{"id": "4bf58dd8d48988d196941735", "name": "H..."}]]	v-1592507526	False	13.092917	80.218327	[[{"label": "display", "lat": 13.092917, "lng": ...}]]	2749	NaN	IN	Chen
Damien Foundation	[[{"id": "4bf58dd8d48988d196941735", "name": "H..."}]]	v-1592507526	False	13.073126	80.201014	[[{"label": "display", "lat": ...}]]	5120	NaN	IN	Chen

4. References

<https://worldpopulationreview.com/world-cities/chennai-population/>