# PROJECT PRESENTATION

**ACRA DATA VISUALISATION** 



# Dataset

- Choice of my Data set will be on data.gov.sg under Acra information entities.
- Base on my selection, I will be choosing this A company data set. I more interesting to find out why Singapore is called the well-known business hub in South East Asia.
- Since the economic is so bad now that I wanted to know whether in Singapore is the company really Sustainable

## Steps by steps





# Questions

what is the full address of the company?

Who is the oldest company in Singapore which is on 'live' status?



Is there any company which status is 'Ceased Registration' in Singapore ?

Is there any company which unable to sustain in Singapore? > 50 years



Is there seasonality for Singapore company which unable to sustain over the years and month?

show the number Company's 'live' status over the years??

show the number Company status 'cancelled' over the years Over the years, does Singapore company have monthly registration Seasonality?

the area for business location

the popular area for business location

Over the years, does singapore company able to survive?

# Samples dataset

	business_constituti	on_description	primary_ssic_	description	primary_user_des	cribed_activity	street_name	entity_status_descript	tion annual_return_date	e p
0		Sole Proprietor	REPAIR OF ELECTRICAL/EL			na	HOUGANG AVENUE 8	Ceased Registra	ation na	а
1		Sole Proprietor	CHARTERED BUS SERVICES (INCLUDING SCHOOL BUSES)			na	YISHUN STREET 41	Cancelled (Non-Rener	wal) n	а
2		Sole Proprietor	MANAGEMENT CONSULTANCY SERVICES FOR HEALTHCARE		MAN	IDE BUSINESS AGEMENT AND ULTANCY SE	BUKIT BATOK STREET 31	Cance	elled na	a
3		Sole Proprietor	LETTING AND OPERATING OF SELF-OWNED OR LEASED		SALES OF DR	INKS & FOODS	TANJONG PAGAR PLAZA	Cance	elled na	а
4		Sole Proprietor	MAI CONSULTANCY	NAGEMENT SERVICES N.E.C.		na	TREVOSE CRESCENT	Cance	elled na	a
reference	entity_name	paid_up_capit	tal2_others	paid_up_c	apital10_ordinary	paid_up_capi	ital10_others	uen_of_audit_firm4	paid_up_capital7_othe	ers
na	A & E ENGINEERING SERVICES		na		na		na	na		na
na	A & Q TRANSIT		na		na		na	na		na
na	A AND Y CONSULTANCY SERVICES		na		na		na	na		na
na	A COFFEE SHOP		na		na		na	na		na
na	A DIXIT & ASSOCIATES		na		na		na	na		na

1 df1.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 140209 entries, 0 to 140208
Data columns (total 95 columns):

	사용하게 그렇게 되는 것이 없는 사람들이 되었다.		
#	Column	Non-Null Count	Dtype
0	business_constitution_description	70393 non-null	object
1	primary_ssic_description	140209 non-null	object
2	primary_user_described_activity	50108 non-null	object
3	street_name	139902 non-null	object
4	entity_status_description	115391 non-null	object
5	annual_return_date	48983 non-null	object
6	postal_code	139943 non-null	object
7	paid_up_capital10_preference	0 non-null	float64
8	entity_name	140209 non-null	object
9	paid_up_capital2_others	435 non-null	object
10	name_of_audit_firm3	23 non-null	object
11	address_type	140209 non-null	object
12	paid_up_capital9_currency	0 non-null	float64
13	paid_up_capital8_ordinary	0 non-null	float64
14	paid_up_capital6_others	1 non-null	object
15	paid_up_capital6_ordinary	1 non-null	object
16	level_no	115294 non-null	object
17	naid un canital@ others	a non-null	float64

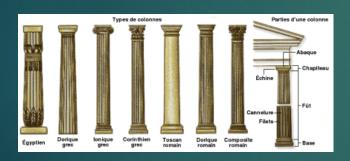
Using a dataset of a single csv file to examine, making sure that all my dataset columns are match before proceeding

## Insight

#### check the insights



This insight can be seen the highest data among all.



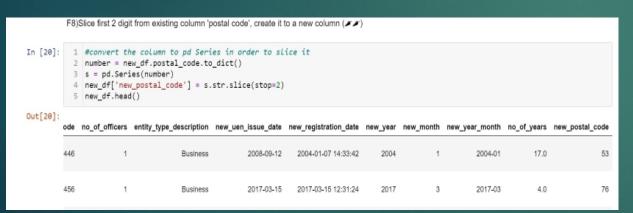
Using the importants and high data to select my columns and check through the data which I needed the most

```
primary ssic description
                                        140209 non-null
                                                          object
    street name
                                        139902 non-null
    entity_status_description
                                        115391 non-null
    postal code
                                        139943 non-null
                                                          object
    entity name
                                        140209 non-null
                                                          object
                                        140209 non-null
                                                          object
    address type
13
                                                          object
    level no
                                        115294 non-null
20
                                        140209 non-null
                                                         object
    uen
21
    uen issue date
                                        140209 non-null
                                                          object
    no of officers
                                        140209 non-null
                                                          int64
25
    no of charges
                                        140209 non-null
                                                         int64
32
    block
                                        139698 non-null
                                                          object
47
    registration incorporation date
                                        140209 non-null
                                                          object
    primary_ssic_code
                                        140209 non-null
                                                          int64
59
    unit no
                                        115037 non-null
                                                          object
    entity_type_description
                                        140209 non-null
                                                          object
```

### Challenge and difficulities

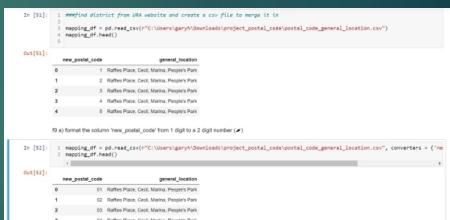
```
B) import all project csv file( > > > )
In [2]: 1 #i created a variable and Loop all the csv files
         2 list_of_csv_files = r"C:\Users\garyh\Downloads\project_multiple_excel_files\*.csv"
         3 for fname in glob.glob(list_of_csv_files):
              df=pd.read_csv(fname)
              print(fname)
       C:\Users\garyh\anaconda3\lib\site-packages\IPython\core\interactiveshell.py:3146: DtypeWarning: Columns (6) have mixed types.Sp
       ecify dtype option on import or set low_memory=False.
         has_raised = await self.run_ast_nodes(code_ast.body, cell_name,
       C:\Users\garyh\Downloads\project_multiple_excel_files\acra-information-on-corporate-entities-a.csv
       C:\Users\garyh\Downloads\project_multiple_excel_files\acra-information-on-corporate-entities-b.csv
       C:\Users\garyh\Downloads\project multiple excel files\acra-information-on-corporate-entities-c.csv
       C:\Users\garyh\Downloads\project_multiple_excel_files\acra-information-on-corporate-entities-e.csv
       C:\Users\garyh\Downloads\project_multiple_excel_files\acra-information-on-corporate-entities-f.csv
       C:\Users\garyh\Downloads\project_multiple_excel_files\acra-information-on-corporate-entities-g.csv
       {\tt C:\Users} garyh \\ {\tt Downloads} \\ {\tt project\_nultiple\_excel\_files} \\ {\tt acra-information-on-corporate-entities-h.csv} \\
       C:\Users\garyh\Downloads\project_multiple_excel_files\acra-information-on-corporate-entities-j.csv
       C:\Users\garyh\Downloads\project_multiple_excel_files\acra-information-on-corporate-entities-k.csv
       C:\Users\garyh\Downloads\project_multiple_excel_files\acra-information-on-corporate-entities-1.csv
       C:\Users\garyh\Downloads\project_multiple_excel_files\acra-information-on-corporate-entities-m.csv
       C:\Users\garyh\Downloads\project_multiple_excel_files\acra-information-on-corporate-entities-n.csv
       C:\Users\garyh\Downloads\project_multiple_excel_files\acra-information-on-corporate-entities-o.csv
```

#### Import all csv files into python



Slice out the first 2 columns

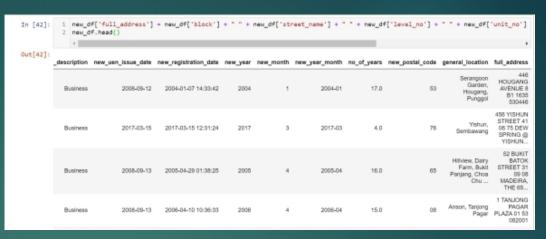
#### Combine all the files



Mapping another created csv files and merge to find the region location

new_postal_code general_location  Serangoon Garden, Hougang, Punggol  76 Yishun, Sembawang  65 Hillview, Dairy Farm, Bukit Panjang, Choa Chu  08 Anson, Tanjong Pagar  Watten Estate, Novena, Thomson		
53 Garden, Hougang, Punggol  76 Yishun, Sembawang  65 Hillview, Dairy Farm, Bukit Panjang, Choa Chu  08 Anson, Tanjong Pagar  Watten Estate, Novena,	new_postal_code	general_location
65 Sembawang  Hillview, Dairy Farm, Bukit Panjang, Choa Chu  08 Anson, Tanjong Pagar  Watten Estate, Novena,	53	Garden, Hougang,
65 Farm, Bukit Panjang, Choa Chu  08 Anson, Tanjong Pagar  Watten Estate, 29 Novena,	76	
Watten Estate, 29 Novena,	65	Farm, Bukit Panjang, Choa
29 Novena,	08	
	29	Novena,

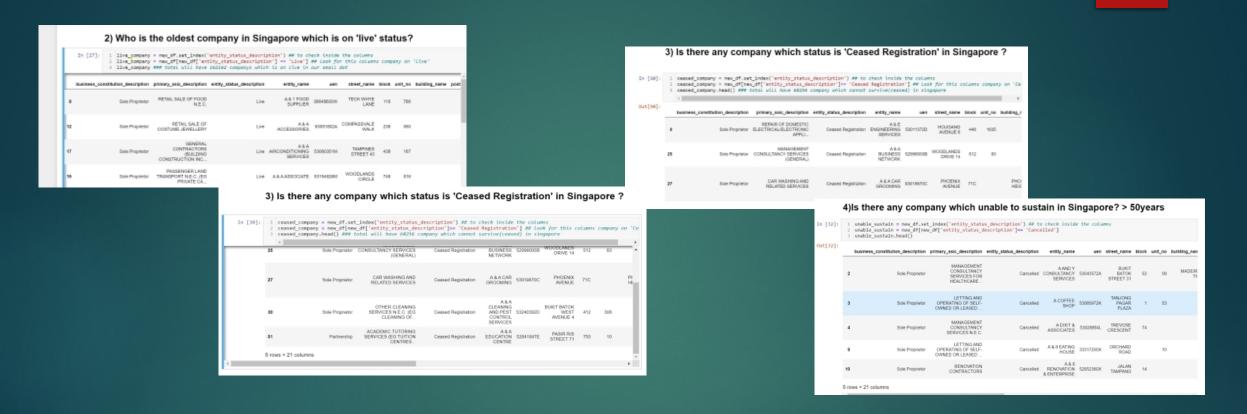
after combination of first 2 digit postal code to find location, results will be shown in the next column in dataframe



### Add the details to a new column combination for full address

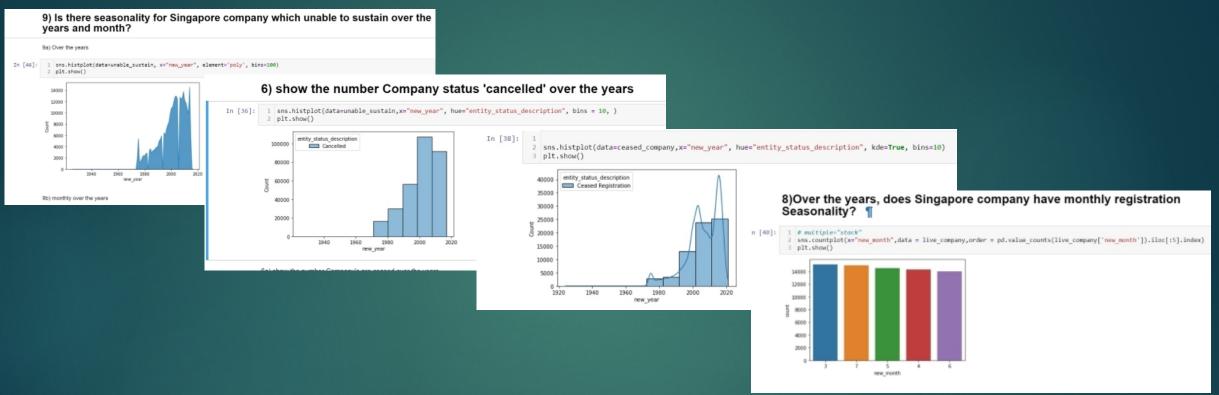
```
for col in new_df.columns:
       pct_missing = np.mean(new_df[col].isnull())
       print('{} - {}%'.format(col, round(pct missing*100)))
business_constitution_description - 0%
primary ssic description - 0%
entity_status_description - 0%
entity_name - 0%
street name - 0%
block - 0%
                               Check the data
unit_no - 0%
level no - 0%
                              set to ensure that
building_name - 0%
postal code - 0%
no_of_officers - 0%
                                   its cleaned
entity_type_description - 0%
new_uen_issue_date - 0%
new registration date - 0%
new_year - 0%
new month - 0%
new_year_month - 0%
no_of_years - 0%
new_postal_code - 0%
general location - 0%
```

## Use the insights



I have created the insights variable in order not to mess up with my data set

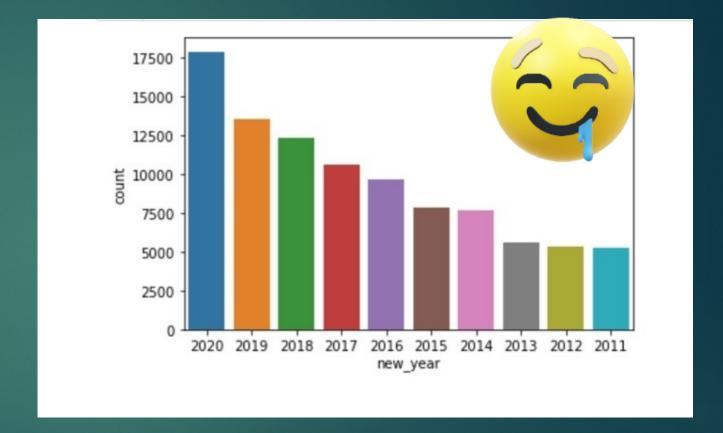
## Analyse



With the help of those dataframe and created variables

# Problem Statement





### THE END



https://github.com/onggreat/G-Dreams

