OPT A2 data

Banker (randomly generated data) - Olivia

Name	Data Type	Range	Comments
banker_id	int	1-350	
[Longitute, Latitute]	float	n.a.	Victoria only
Tenure	float	[0.5 years, 10 years]	Average
Salary	int	[65k, 95k]	Average 80k
Capacity	int	[250m, 1000m]	step(250, 1000, 250)

1. Generate random salary

2. Map tenure <-> salary

Salary = Tenure*a + b 65 = 0.5a + b 95 = 10a + b 30 = 9.5a a = 3.16 b = 63.42

Salary = Tenure*3.16 + 63.42

Tenure = (Salary - 63.42)/3.16

3. Map Capacity <-> Tenure

Capacity	Tenure
250	[0.5, 2.5)
500	[2.5, 5)

750	[5, 7.5)
1000	[7.5, 10]

```
1 =IF(D2>=7.5, 1000

2 , IF(D2>=5, 750

3 , IF(D2>=2.5, 500

4 , 250

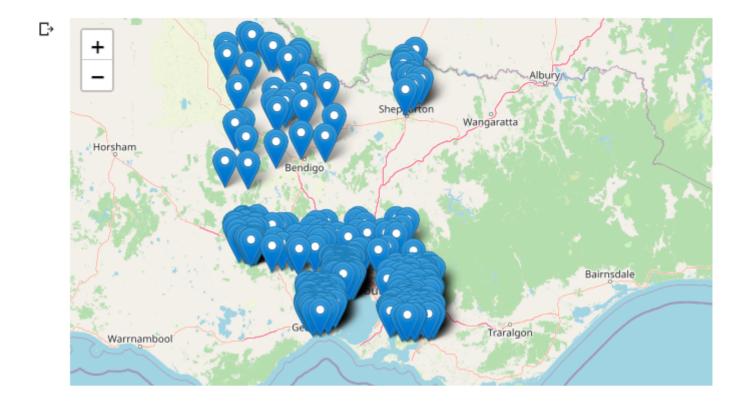
5 )))
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4. Location

• Victoria population map: www.planning.vic.gov.au

	А	В	С	D
1	Place	no_of_banker	Avg population by 2021	Population %
2	Melbourne city	43	17	12%
3	Greater Geelong	68	27	19%
4	Wyndham	73	29	21%
5	Casey	91	36	26%
6	Greater Bendigo (C) (LGA)	30	12	9%
7	Ballarat	30	12	9%
8	Shepparton	15	6	4%
9	Total	350	139	100%

• Map of 350 bankers' locations:



Branch (real + randomly generated data) - Shengnan

- Get branch locations
- Convert address -> [long, lat]
- Attribute market value to each branch

Name	Data Type	Real / Generated	Range	Comments
branch_id	int			825 all AU -> VIC https://nab.banklocationm aps.com.au/en/branches/a us
[Longitute, Latitute]	float	Real		Victoria only
Market_value	int			Market_Value = Avg_price_per_property * no_of_property
Avg_price_per_ property	float			Market value
no_of_property	int	Real		

Property (real data, conditional)

Column Name	Data Type	Real / Generated	Range	Comments
property_id				
population	int			

Data Source

Basic data required:

- 1. Scrape data on 824 branches from: (https://nab.banklocationmaps.com.au/en/branches/aus)
- 2. Market Opportunity (https://www.abs.gov.au/statistics/economy/finance/lending-indicators/latest-release#data-downloads)