

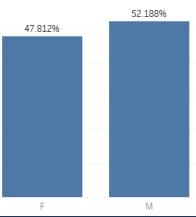
ANZ VIRTUAL INTERNSHIP TASK 1

BY: TANISHA JAIN

GITHUB: https://github.com/tanjaingit

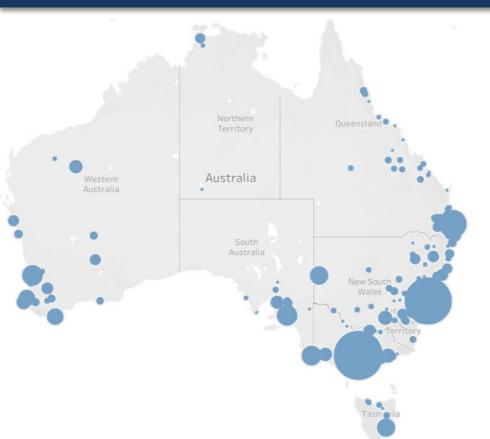
CUSTOMER DEMOGRAPHICS

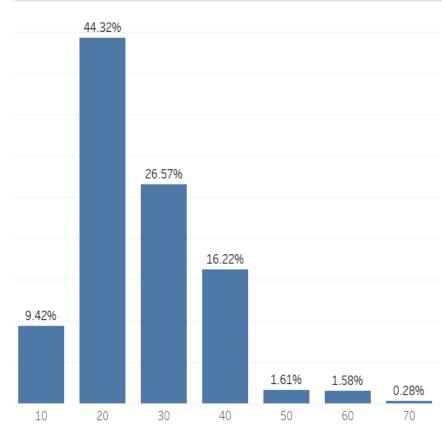






AGE DISTRIBUTION (age bin of 10 years)





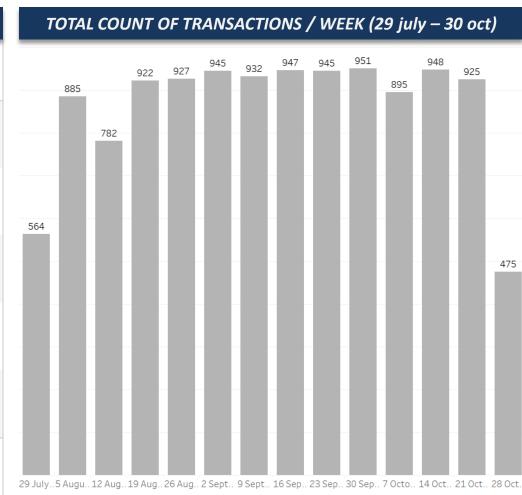
EXPLORATION OF ANZ TRANSACTION DATASET I

12,043 account Distinct 100

count of account

Count of

% OF TOTAL COUNT OF TRANSACTION TYPES			
credit	PAY/SALARY	883	7.33%
debit	INTER BANK	742	6.16%
	PAYMENT	2,600	21.59%
	PHONE BANK	101	0.84%
	POS	3,783	31.41%
	SALES-POS	3,934	32.67%
Grand Total		12,043	100.00%





200K

180K

160K

140K

120K

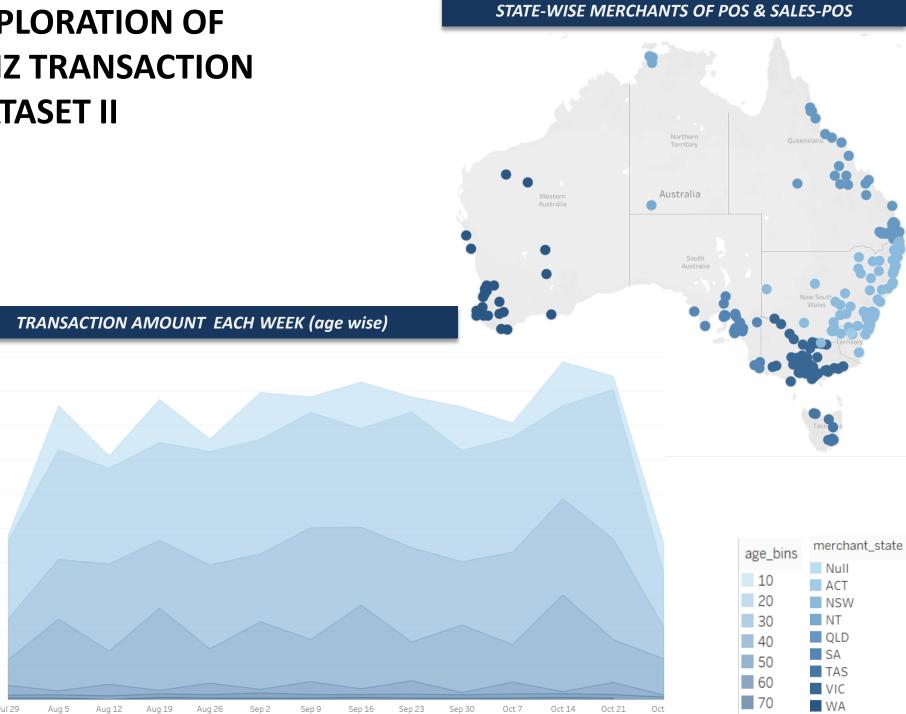
100K

80K

60K

40K

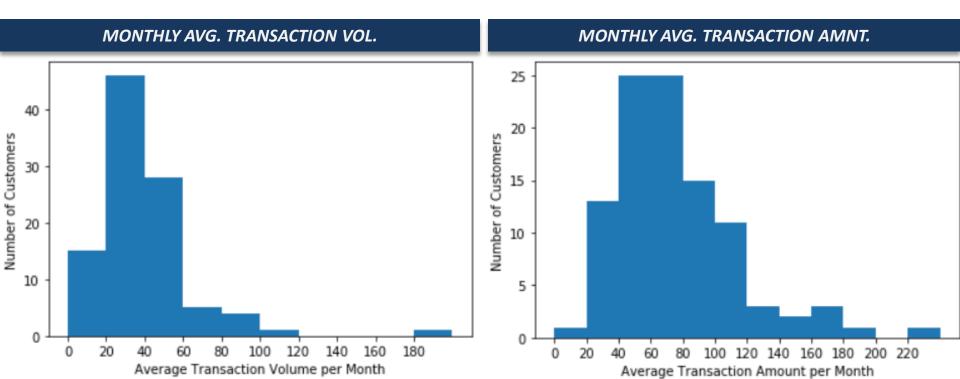
20K



MONTHLY AVGERAGE TRANSACTION VOLUME AND AMOUNT

```
tran_vol = df.amount.groupby(df.account)
#(29-july-2018 - 30-oct-2018)
print('Total no. of transactions: ',tran_vol.count().sum())
print('Avg no. of transactions/ month: ',int(tran_vol.count().sum()/3))
print('Max vol of transactions by an account: ',tran_vol.count().max())
print('Max transaction amount an account: ',int(tran_vol.mean().sum()))
```

Total no. of transactions: 12043 Avg no. of transactions/ month: 4014 Max vol of transactions by an account: 578 Max transaction amount an account: 22886



OUTLIERS – MAY NEED FURTHER INVESTIGATION

flagged 0.

•There are a total of 5 transaction which seems suspicious and needs further inspection because they are very small transaction amounts. •There are 20% (758/3,783) of POS and 19% (765/3,934) SALE-POS transactions

Can be because of suspicious

activities. Needs further

POS SALES-POS

Txn

Description

POS SALES-POS POS

SALES-POS

SALES-POS

Min.

Amount

0.100

0.100

Count

2.000

3.000

758

765

3,169

758

765

3,025

3,169

Min & Max VALUES OF movement/txn description debit debit POS PAYMENT Max: 7,081 Max: 1,981 Min: 0.1 Min: 15.0 debit Max: 1,956

inspection.

COUNT OF DIFF. FALGGED VALUES credit card_prese.. txn_description PAY/SALARY Null INTER BANK Max: 8,836 Min: 576.0 PAY/SALARY PAYMENT INTER BANK PHONE BANK Min: 16.0 0 POS debit SALES-POS debit SALES-POS PHONE BANK Max: 4,233 Min: 0.1 POS 1 Max: 1,916 Min: 21.0