ANZ BANKING EXPLORATORY DATA ANALYSIS

- SUJAY GOSWAMI

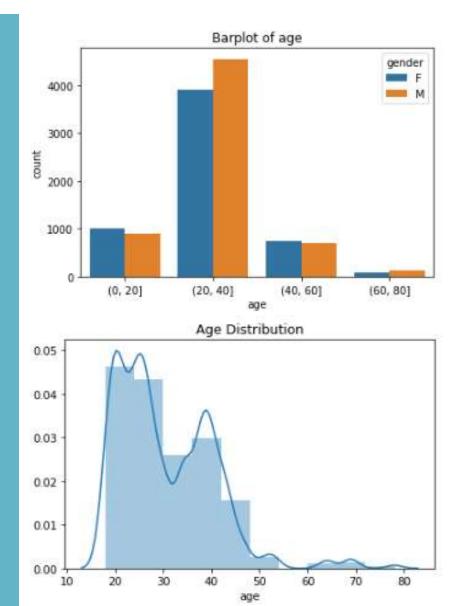
Median Mean 29.0 187.93 12043 transactions Max Min 8835.98 0.1 All amounts are in AUD

Median 28

Mean 30

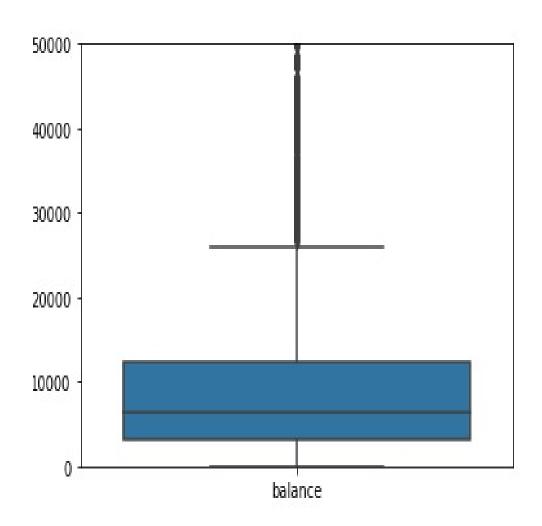
AGE

Oldest 78 Youngest 18



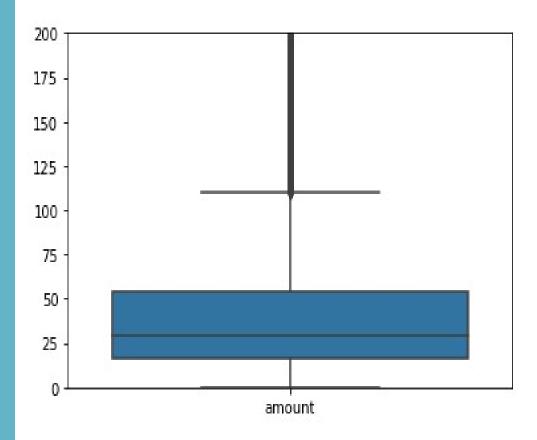
AGE

- Maximum number of customers are in 20-40 band, where as minimum number of customers are in 60-0 band.
- The number of male customers exceed the number of female customers only in the minimum and maximum bands.
- We can see a multi-modal age distribution of customers as there are three peaks in the histogram.
- There are many outliers towards the upper aged customers.
- It is a right skewed distribution.



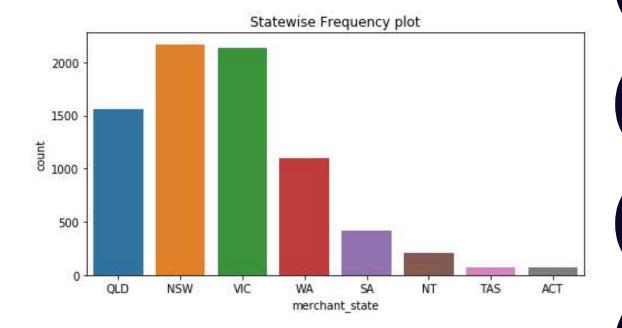
BALANCE

- o Count 12043
- o Mean 14704.195553
- Standard Deviation –31503.722652
- Minimum 0.24
- o 1st Quartile 31 58.585
- Median 6432
- 3rd Quartile 12465.94
- Maximum 267128.5



AMOUNT

- o Count 12043
- o Mean 187.93358
- Standard Deviation –592.59934
- Minimum 0.1
- o 1st Quartile 16
- o Median 29
- 3rd Quartile 53.655
- o Maximum 8835.98



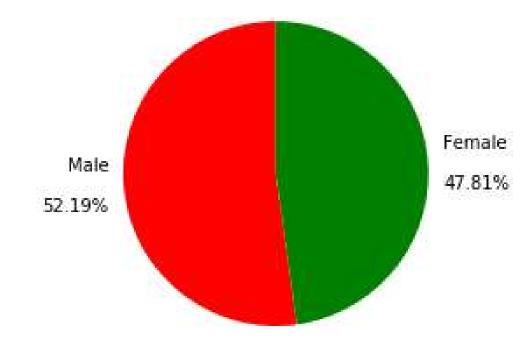
All transactions are local to Australia

STATE-WISE DISTRIBUTION

- Maximum transactions occurred in NSW
- Minimum transactions occurred in TAS

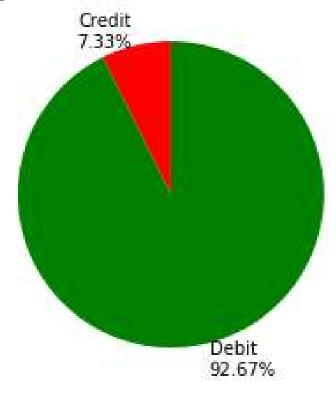
state	quantity
NSW	2169
VIC	2131
QLD	1556
WA	1100
SA	415
ACT	73
TAS	68

GENDER

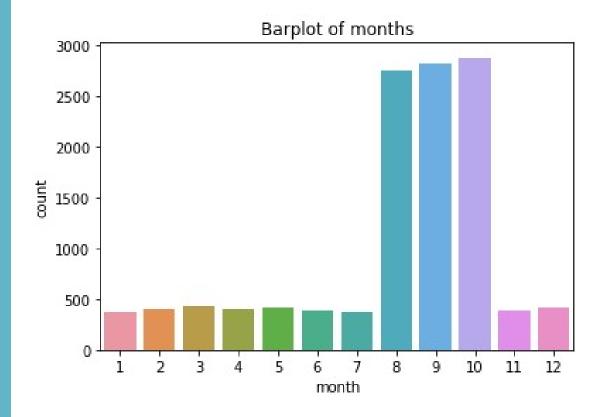


MALES - 6285 FEMALES - 5758

MOVEMENT



CREDIT- 883
DEBIT- 11160



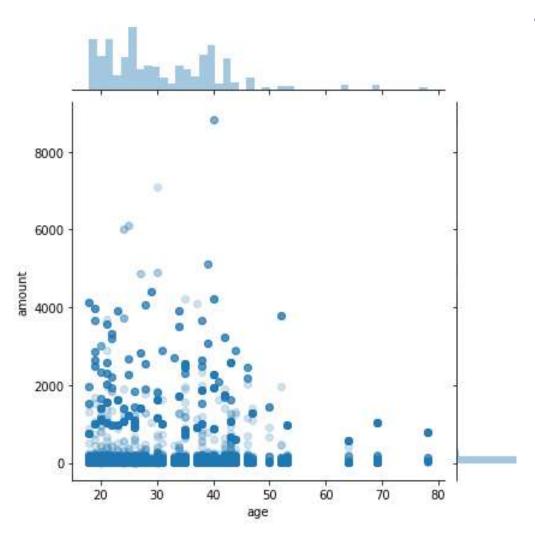
TIME FREQUENCY

- All transactions are from 2018 only.
- Maximum transactions took
 place between August –
 October.
- Jan and July has lesser transactions compared to rest of the year.

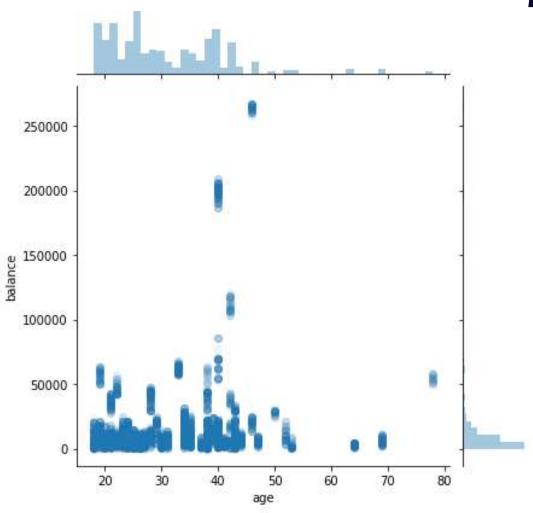
Month	Count
Jan	377
Feb	405
Mar	426
Apr	402
May	417
June	381

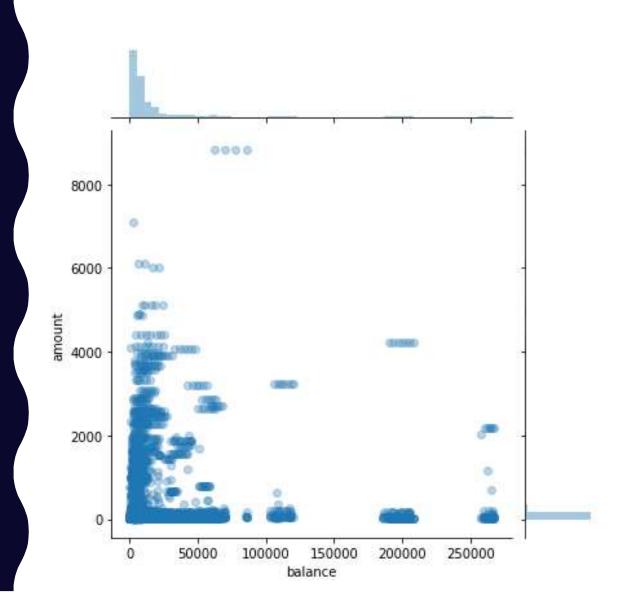
Month	Count
Jul	371
Aug	2750
Sep	2823
Oct	2885
Nov	394
Dec	412

AGE VS. AMOUNT



AGE VS. BALANCE





AMOUNT VS. BALANCE



- Jupyter notebook was used to create the python notebook file for visualizations.
- Microsoft PowerPoint was used for making the report
- GitHub https://github.com/sg23600/ANZ
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