

Data@ANZ Virtual Internship Program

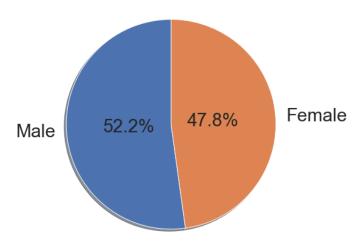
# Task 1 – Exploration Data Analysis

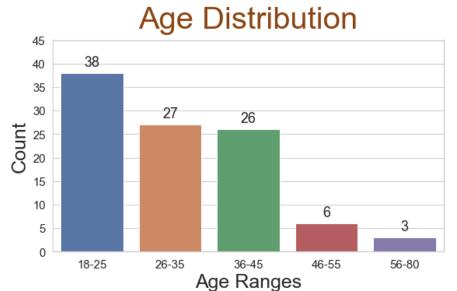
Prepared by Brooks Musangu

1st October 2020

### **Customer Demographics**

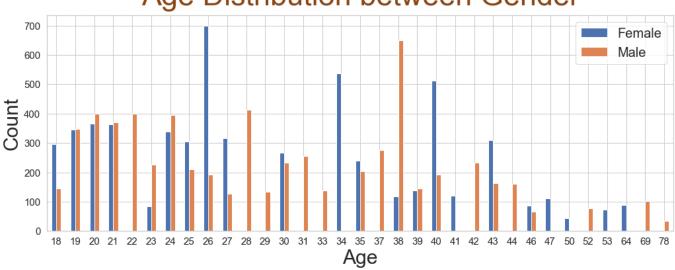
#### Gender Distribution



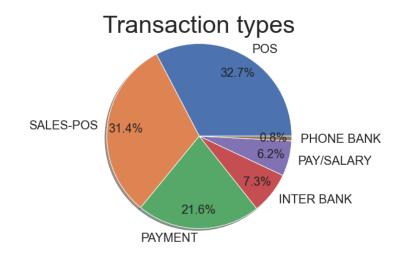


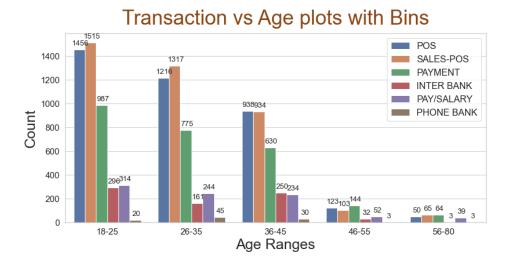
- A total of 100 hypothetical customers.
- Gender diversity is relatively even with males being the majority by only 2 %. An indication of unbiased service towards genders.
- Average age 31 years.
- Majority of the customers are younger, between the age of 18-35 year.
  - ➤ Recommendation: Increase customer based for middle-age and elderly customers as they usually have higher income.

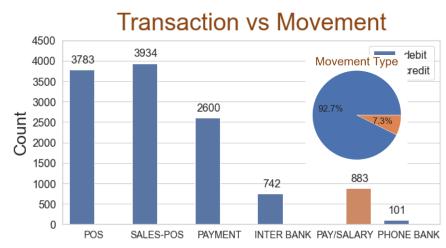
#### Age Distribution between Gender

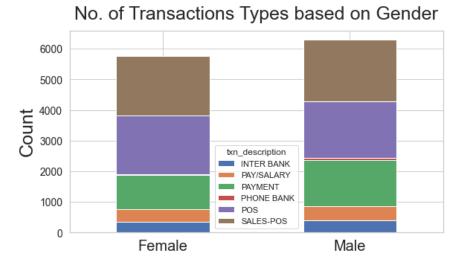


### Transaction Insights





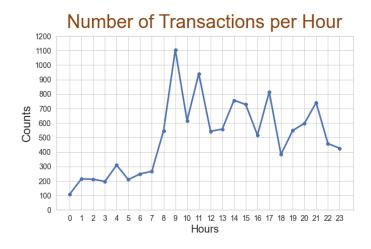


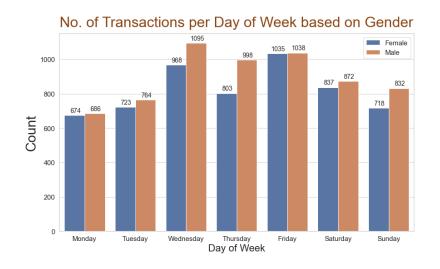


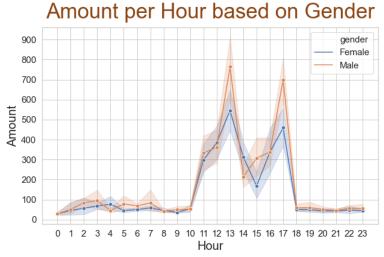
- A total 12043 and an average transaction of 187.93 AUS
- Transactions volume decreases significantly for Age > 40
- Point of Sale (POS) transactions are the most popular transaction
- Whereas, Phone Bank transactions are the lest popular type.
- Recommendation:

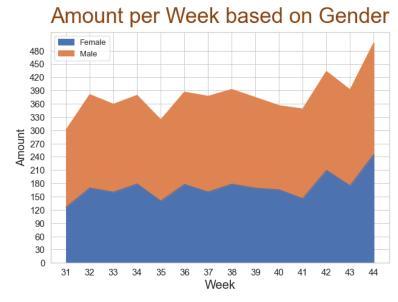
   Increase phone banking
   support as the need might
   increase in the near future.
- Credit is only in form of Salary/Pay giving credibility of data as we don't see any anomalies in movement type.

## Transaction Insights Cont'd

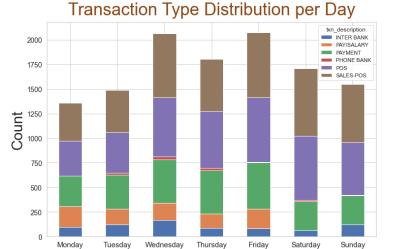






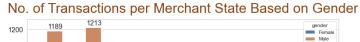


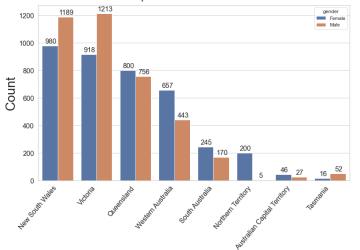
- Transaction peak time is aroundnoon and minimal between 1 AM– 4 AM
- Salaries are credited on Weekdays
- Marginal difference between genders for number of transactions and average amount.
- August appears to a holiday as there is no data



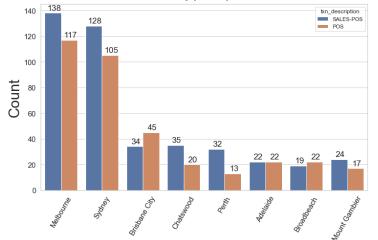
Day of Week

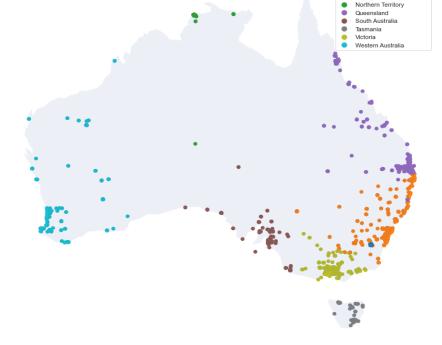
#### Transaction Based on Merchants



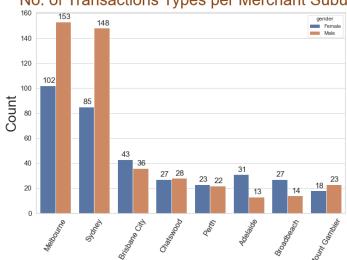




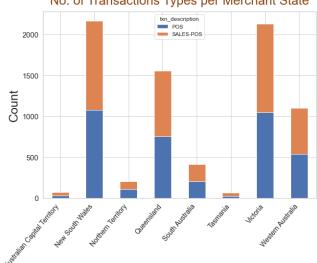




#### No. of Transactions Types per Merchant Suburb







- The only transactions in both states and suburbs are Point of Sale and Sales-Point of Sale transactions and there is a marginal difference in the number of transactions between genders.
- The transaction volume is pretty low in other suburbs except for Melbourne and Sydney
- Merchants are available across the country.