

Missing Values :

It is noted that there is no information for the columns pertaining to merchant information for the status of “posted”.

Median as a measure of central tendency:

The mean of the features are highly affected by the outliers present, for eg., the mean of the “amount” column is 188, which is greater than thrice its 75% percentile. The high magnitude of the outliers pull the mean towards them and hence, in such a scenario, median would be the most suitable measure.

Duration	Balance	Amount
Total	6432	29
August	3156	28
September	6503	29
October	9297	29

The median balance increases greatly through the three months, although the median amount for one transaction remains the same.

Type of Transaction:

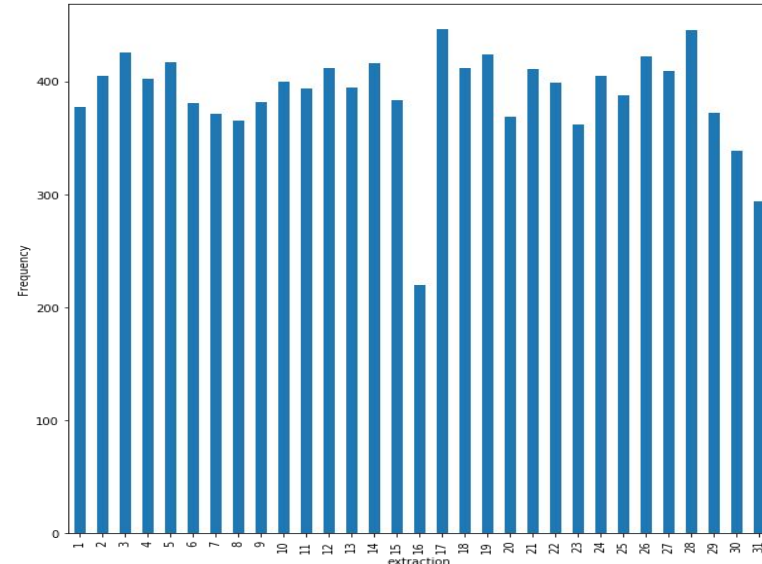
The total no. of each type of transaction decreases from SALES-POS to PHONE BANK in the sequence of POS, PAYMENT, PAY/SALARY and INTER BANK in the same order for the 3 months.

On an average, a customer makes 33 transactions per month.

Analysis by Date and Time:

The total no. of transactions taking place over a month stay same, as well as over weeks.

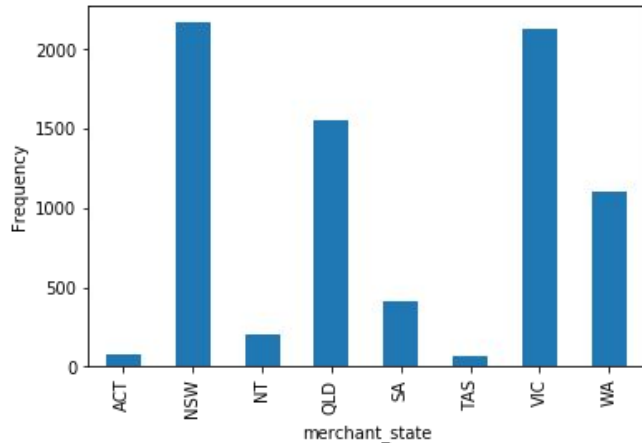
The transactions follow a cyclic pattern over the days of a week, increasing from Monday to Wednesday and then decreasing till the weekend. Wednesday, Thursday and Friday remain the busiest days. However, the data for 16th August is missing.



Throughout one day, the major no. of transactions take place from 8 am to 9 pm. The busiest hour is 9 am - 10 am in the morning, which is probably when the banks and offices open. The 11th, 17th and 21st hour of the day also witness a high no. of transactions. It is also noted that the PAY/SALARY transactions take place only between 11 am to 5 pm.

The amount of transactions follows a very highly positively skewed curve for the transaction types SALES-POS and POS with over 75% of the amounts lying between 0 to 60 AUD.

Geographical Conclusions:



As per the merchant states, Eastern and Western Australia account for majority of the transactions whereas Northern and Southern Australia and Tasmania do not account for much. It is also conclusive that New South Wales and Victoria, which are the two business hubs of the country, have the maximum no. of the transactions.