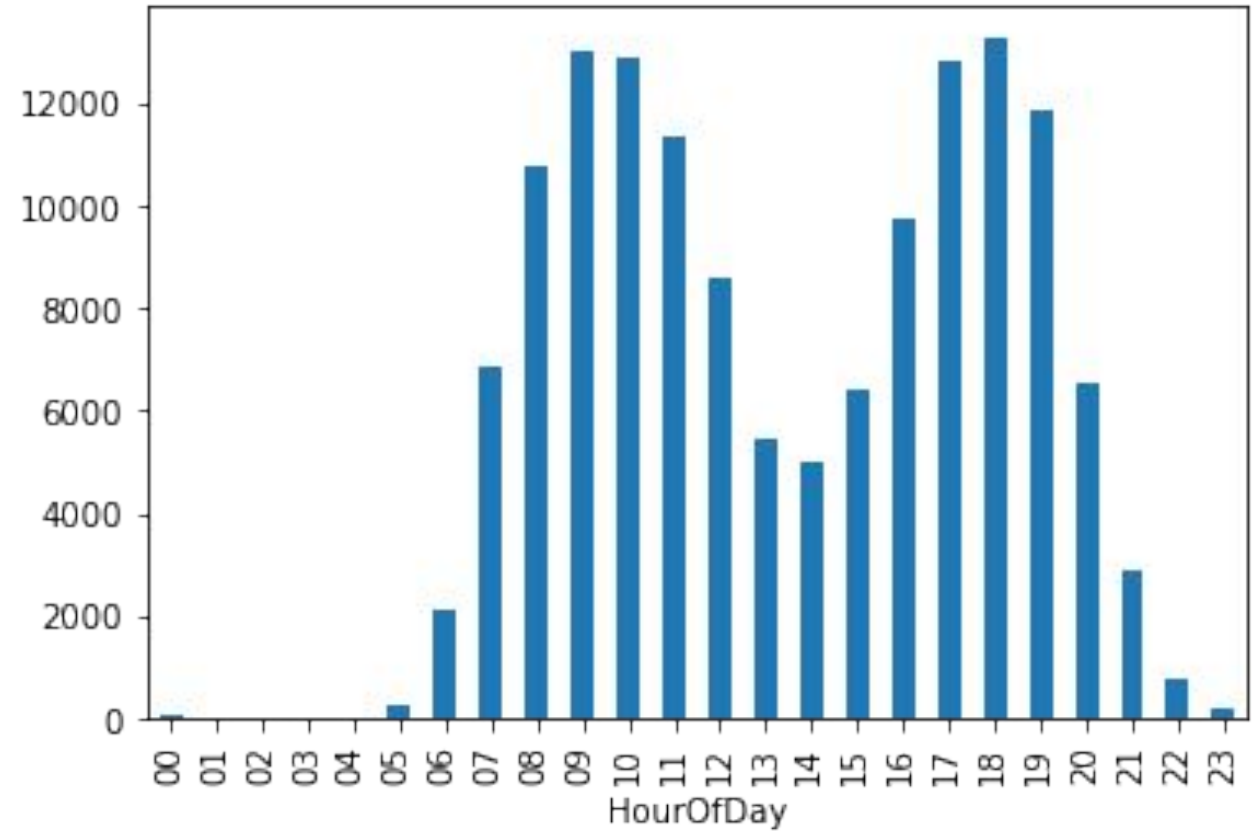


Data Exploration Summary

Tables	Data size	Comment
All Transactions	Data size : 141002 Zero Amount transaction : 58496 Non Zero Amount Transactions : 88534	Transaction Data is of one Day 15 May 2022
Businesses	Active Businesses : 15302 Businesses in AllTransaction table : 12437	
Hierarchy levels	1. Service Type 2. Domain 3. Products	
Service Type	Total 6 Services available	Top Services: Financial Services, Booking, Billing
Domain	39 Domains available 20 of them are present in transaction table	
Products	Total no. of Products : 843 Active and Non Terminated Products : 711 Products for the transaction data : 97 Products for the paid transaction data : 88	Top Products: <ul style="list-style-type: none"> • AEPS Withdrawal Services • BC Money Transfer • Reliance Jio • MATM cash withdrawal • Airtel • Irctc
States, UTs and Cities	26 states and 329 cities	Top States : <ul style="list-style-type: none"> • Uttar Pradesh • West Bengal • Bihar • Maharashtra
Operators	90 operators	

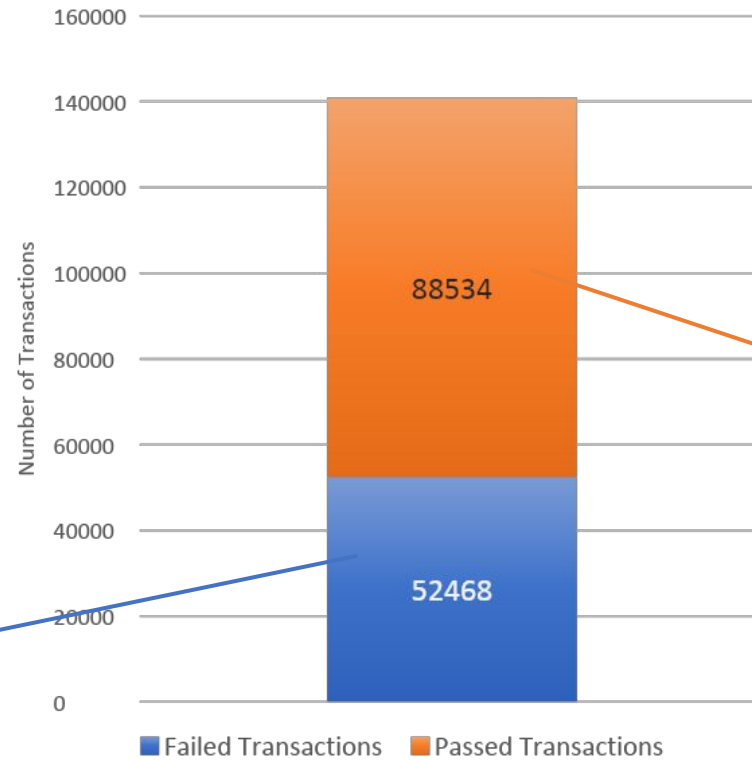
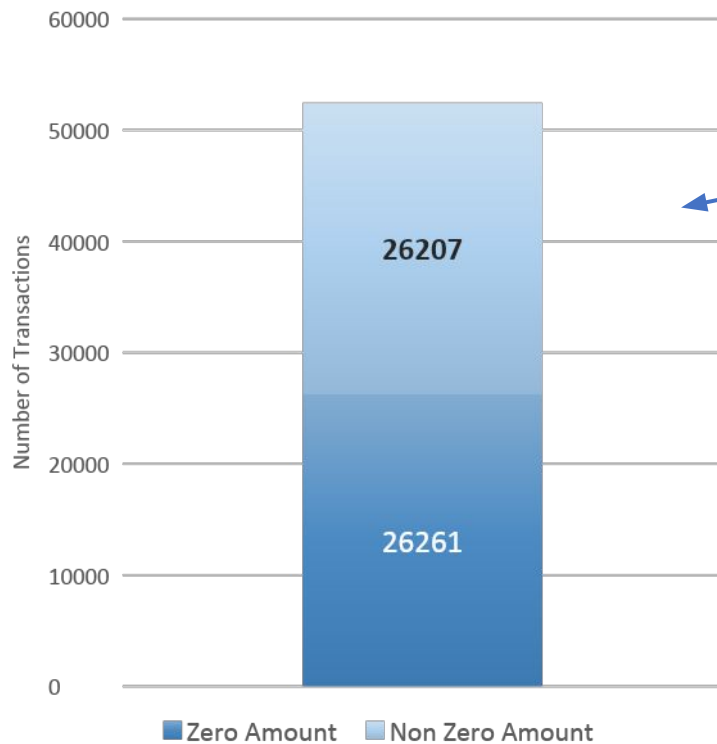
Peak hours in a day when most of the transactions are taking place is :

- Morning (8 AM) – 11:00 AM
- Evening (4 PM) – 7:00 PM

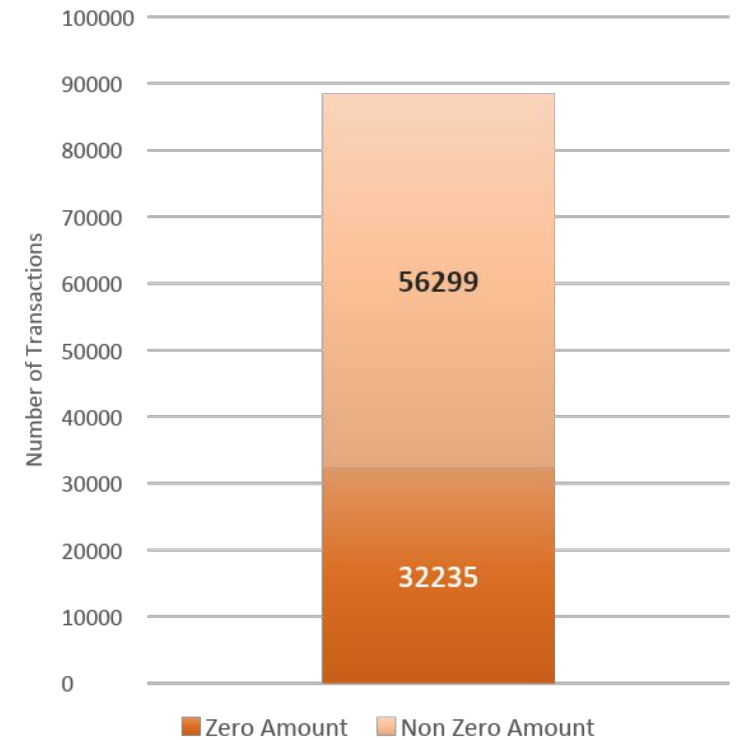


Pass and Failed Transactions

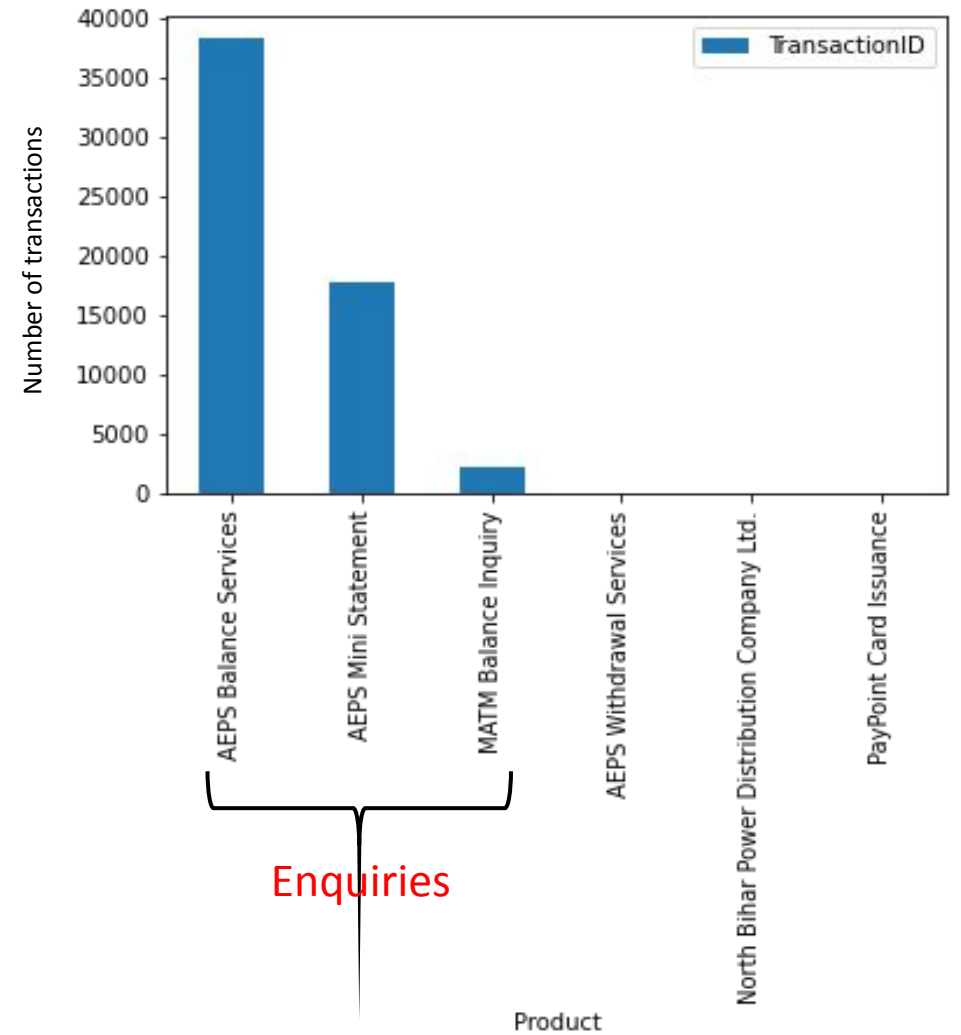
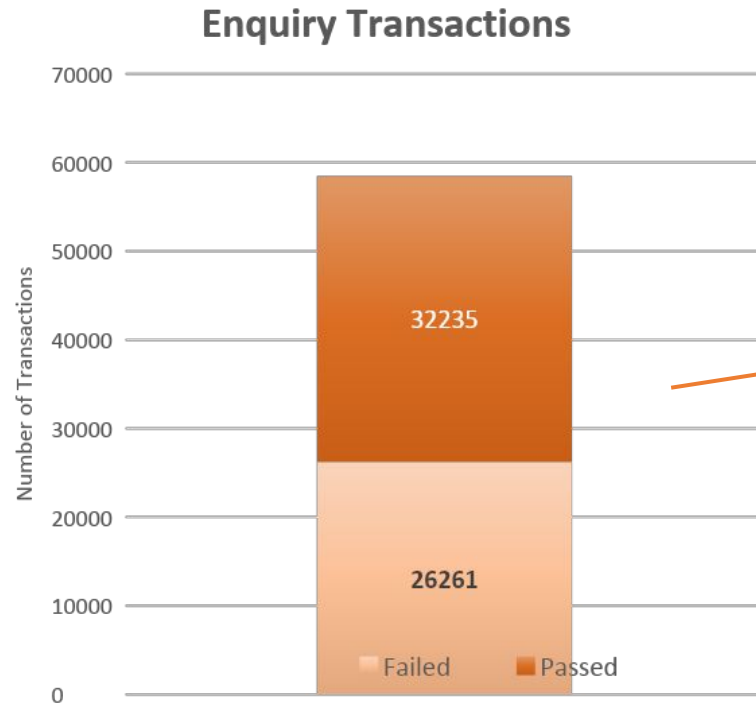
Failed Transactions



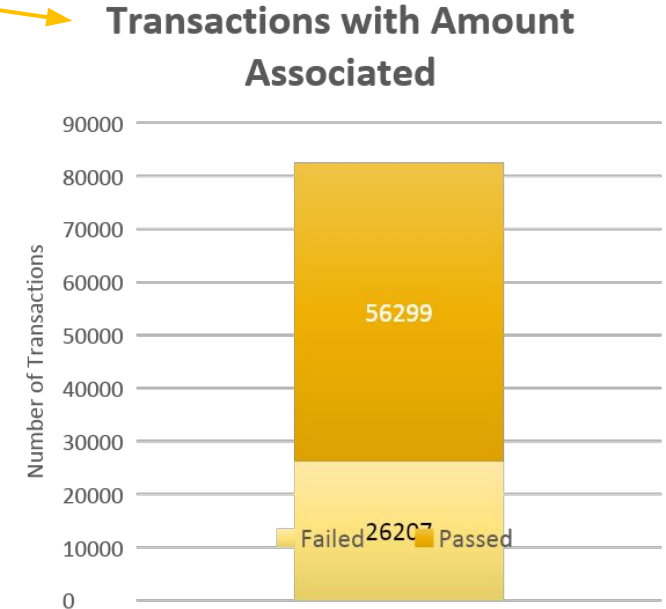
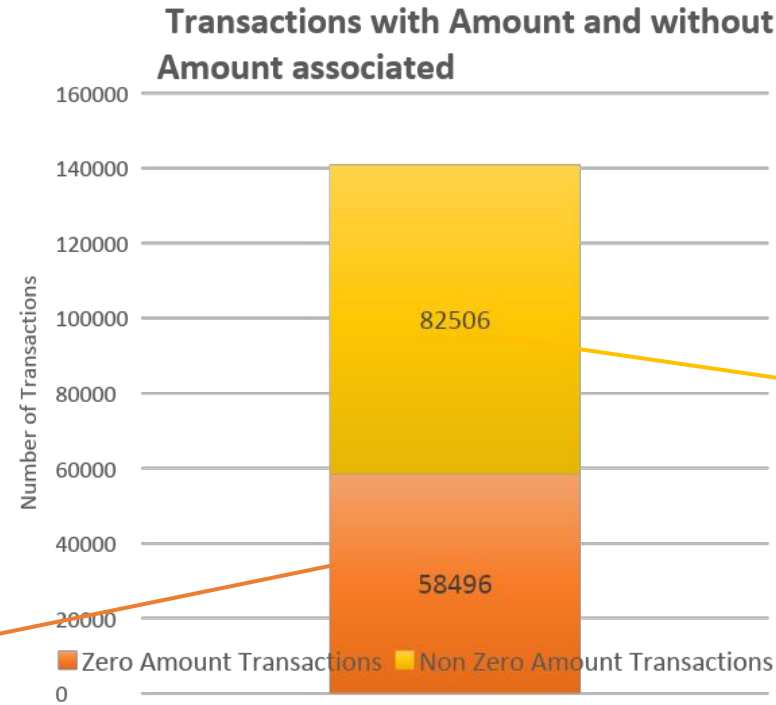
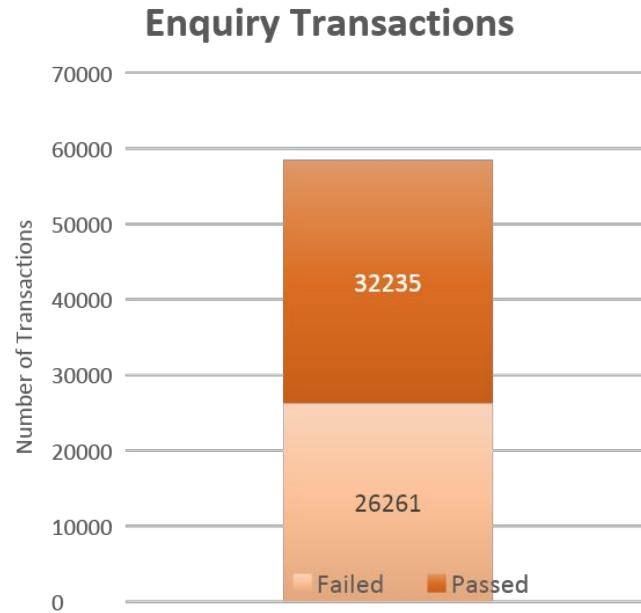
Passed Transaction



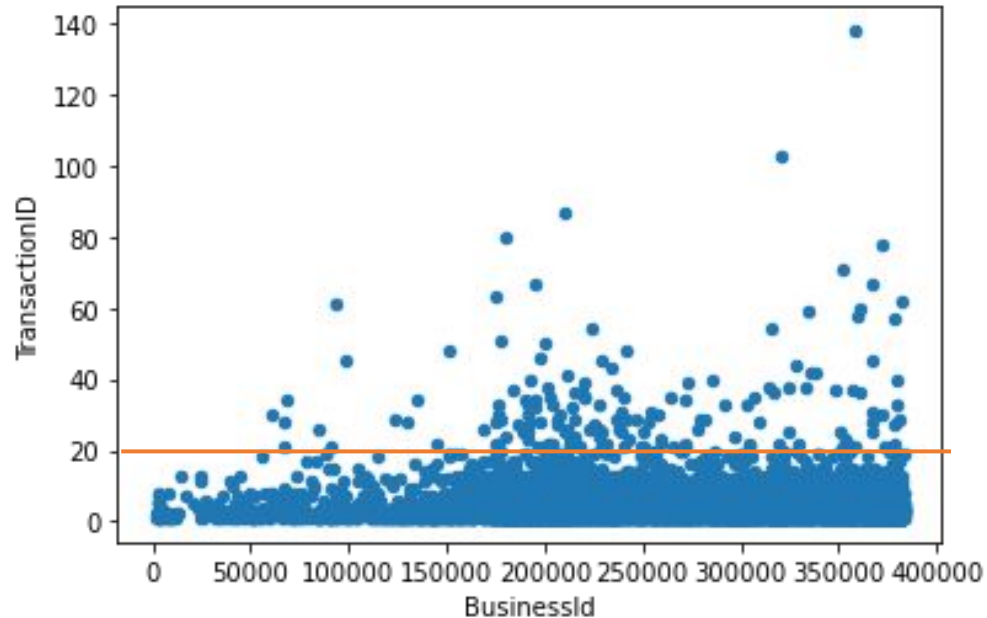
Transaction Statistics



Zero amount transaction comprises of mostly Enquiry type transactions



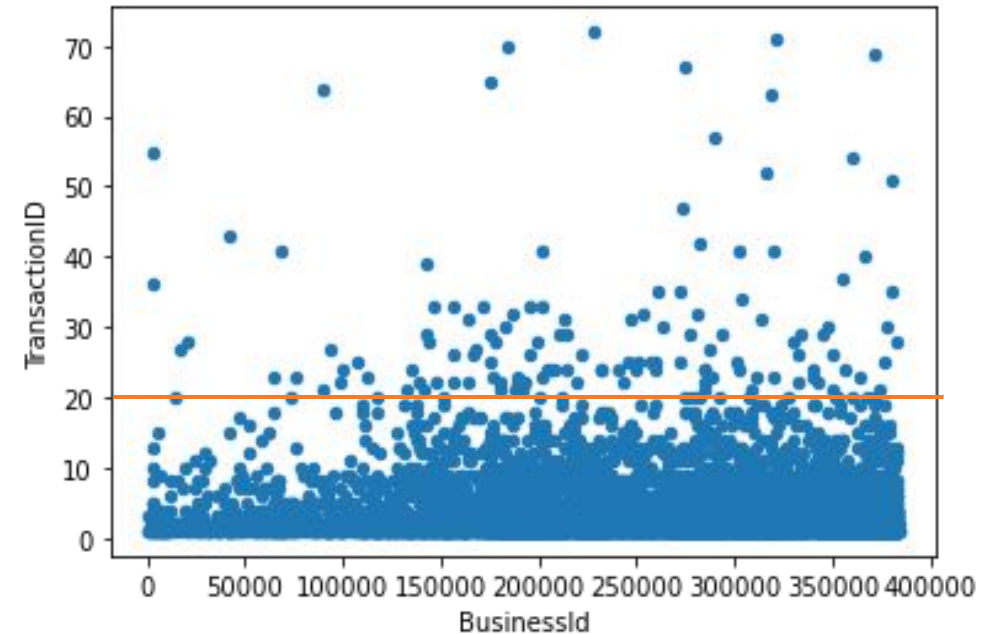
Enquiry Type Failed Transactions per Businesses



97% of Businesses have done less than 20 failed **enquiry type transactions** on 15/05/2022

- Total Businesses = 5225
- Below 20 and at = 5064
- Above 20 = 161
- **Mean failed** transactions = 5

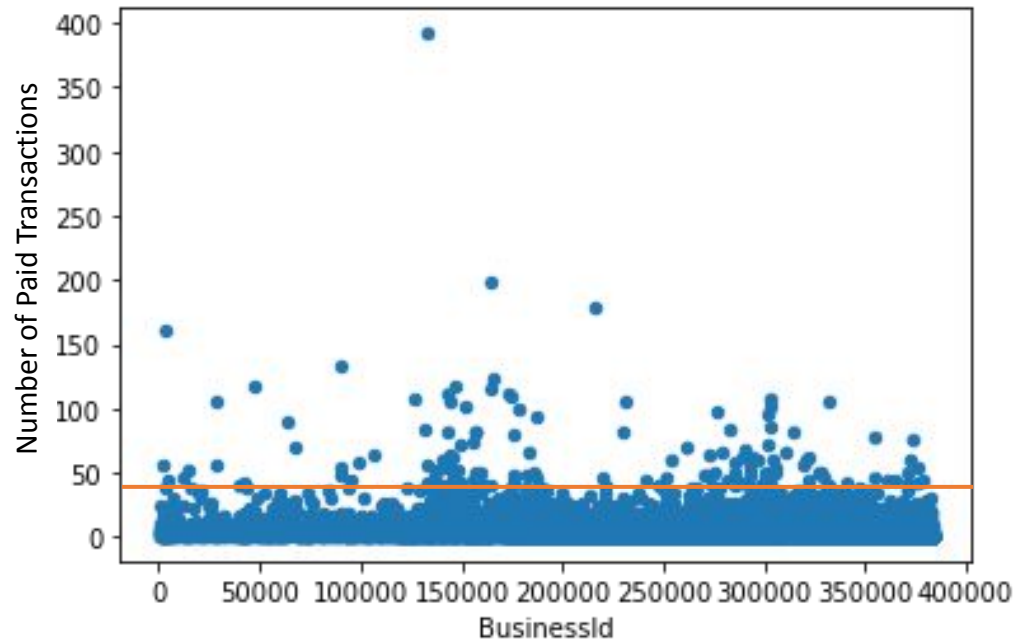
Amount Associated, Failed Transactions per Businesses



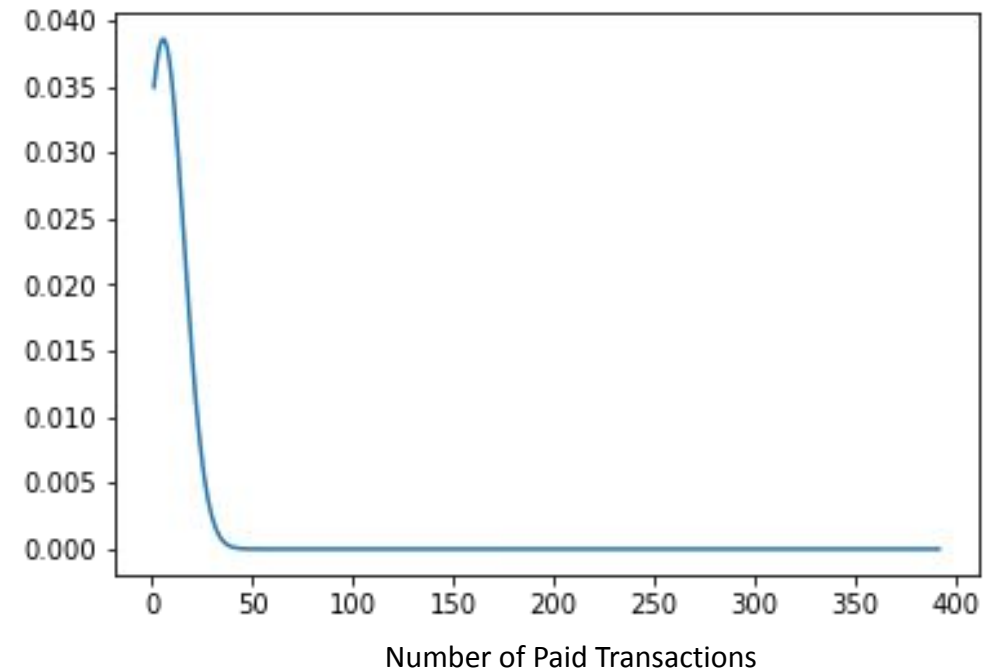
97% of Businesses have done less than 20 failed **Amount involving transactions** on 15/05/2022

- Total Businesses = 5859
- Below and at 20 = 5730
- Above 20 = 129
- **Mean failed** Transaction = 4.5

Paid Transactions = Amount Associated Successful Transactions



- 99% of businesses are doing less than 30 Paid transactions (Passed).
- Distribution has a long right-side tail, suggesting the existence of outliers.
- Mean Paid transaction per businesses = 5 - 6

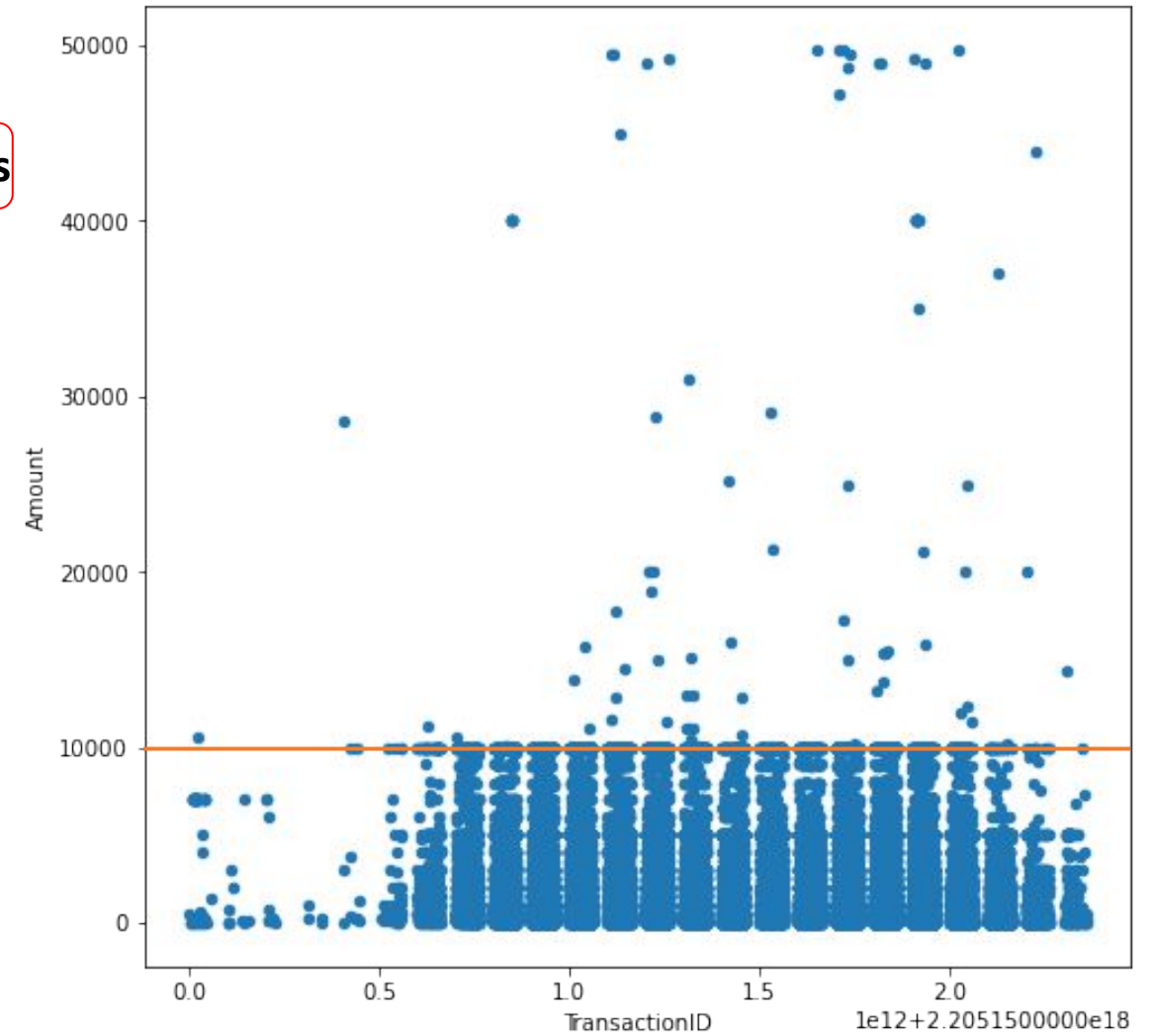


Transaction wise Business distribution, shows the huge stacking of transaction in smaller range however there are transactions happening in high volume too, but quite rarely.

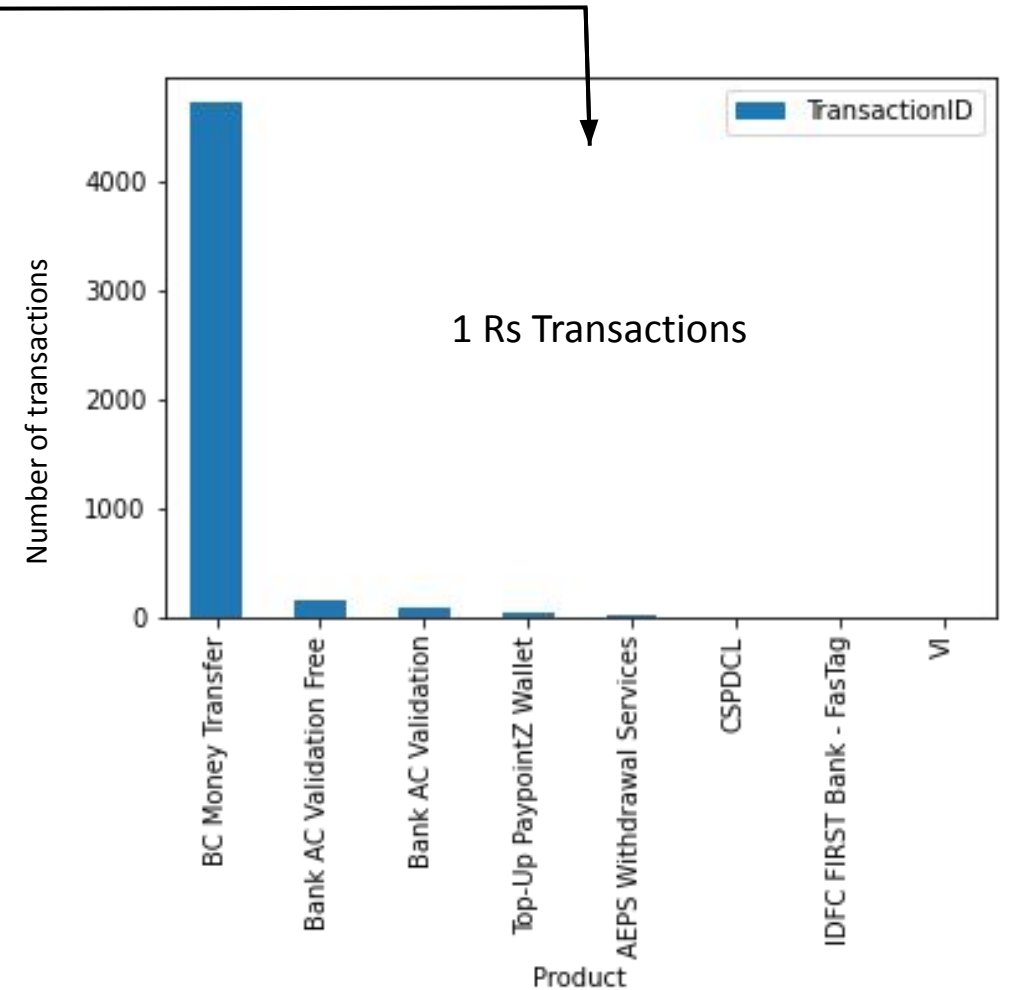
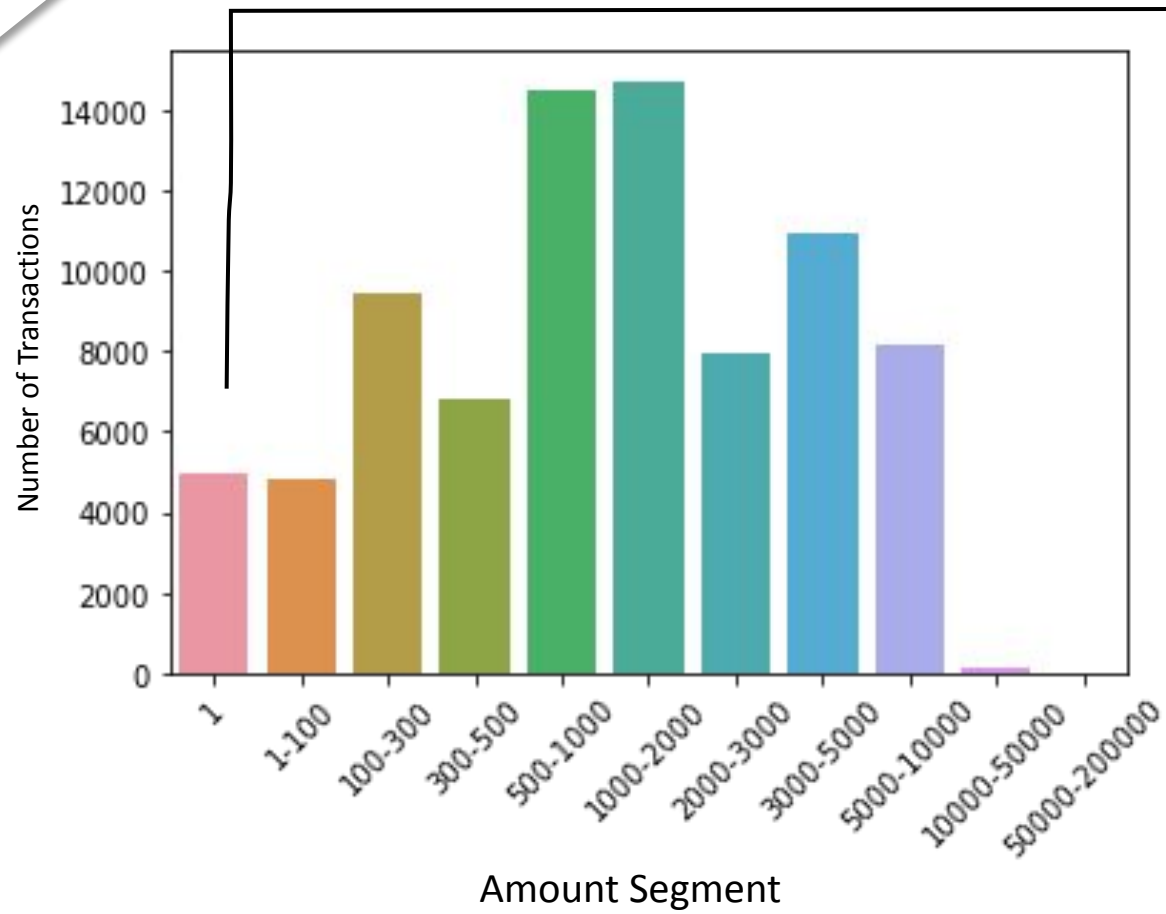
Paid Transactions = Amount Associated Successful Transactions

Most of the Transaction Amounts lie under 10000 Rs range

- Under 10000 = **56212** transactions
- Above 10000 = Only **87** transactions
- Mean = 2020 Rs



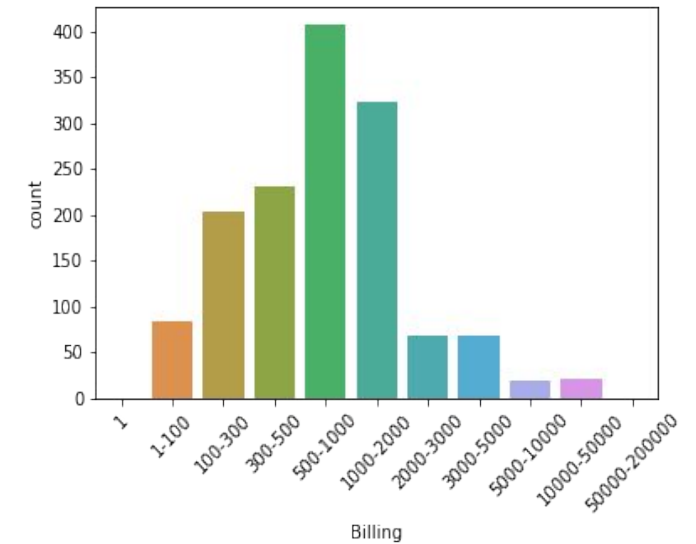
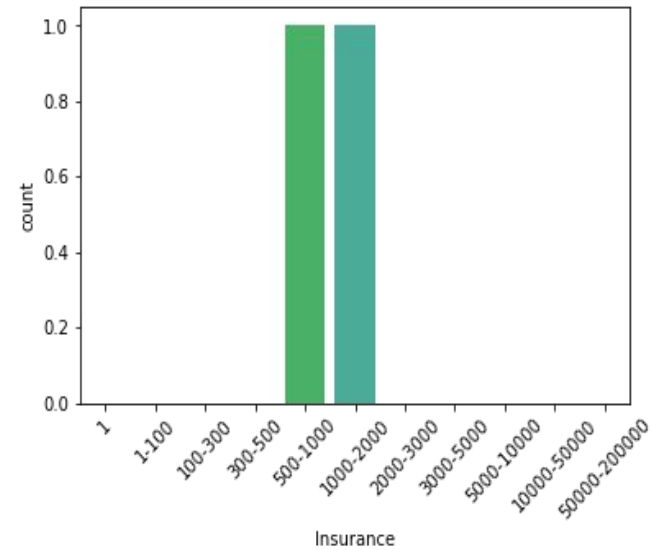
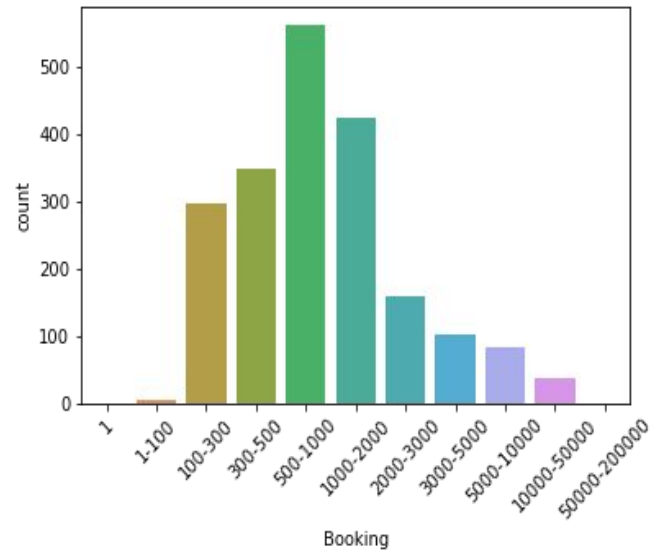
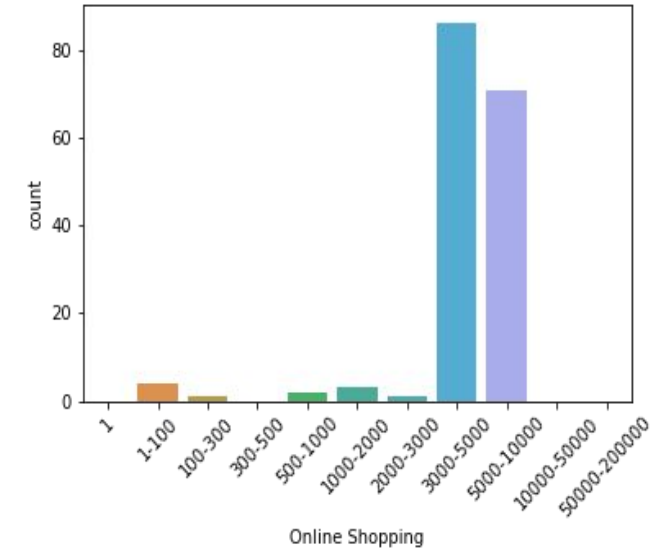
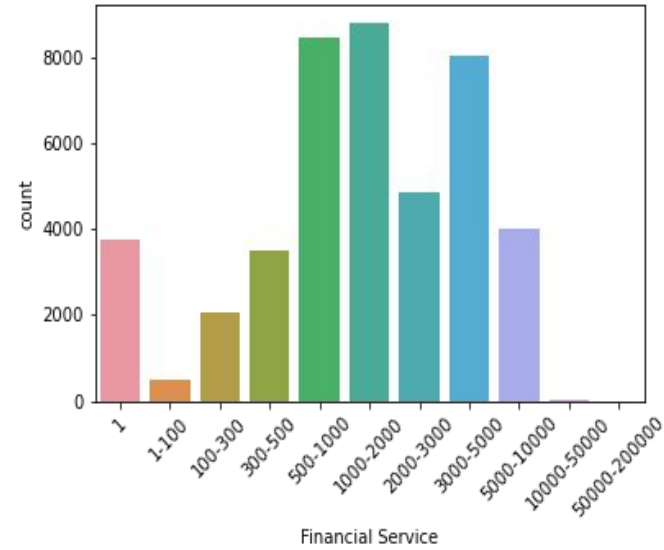
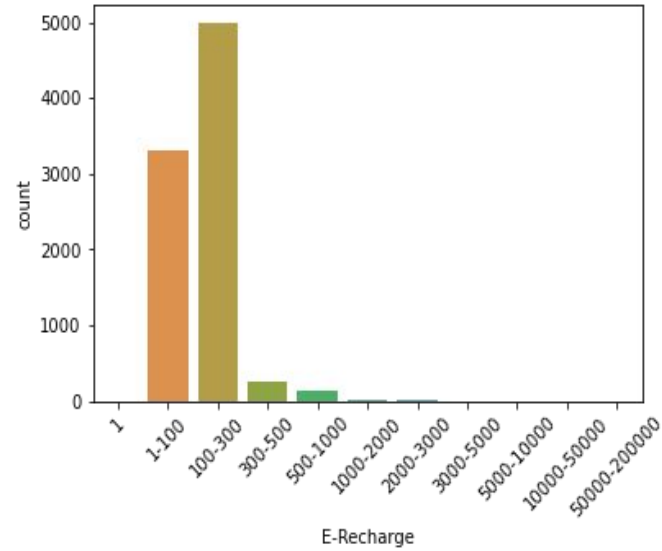
Amount Segment Statistics



1 Rs Transactions

There are about 5000 transactions of Rs 1, which mostly comprises of BC Money Transfer product

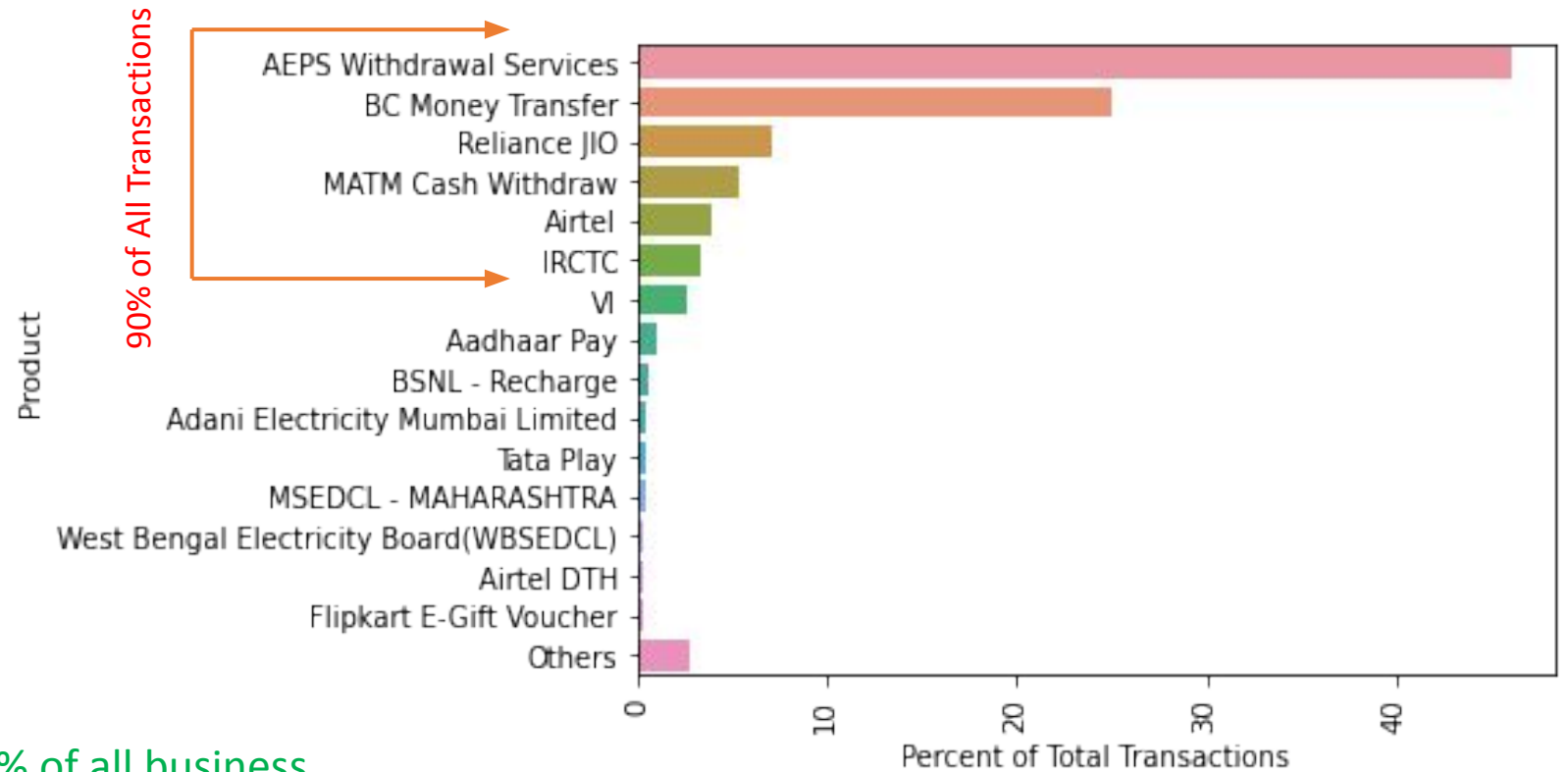
Service wise Amount Segmentation



Product wise number of Transaction Statistics

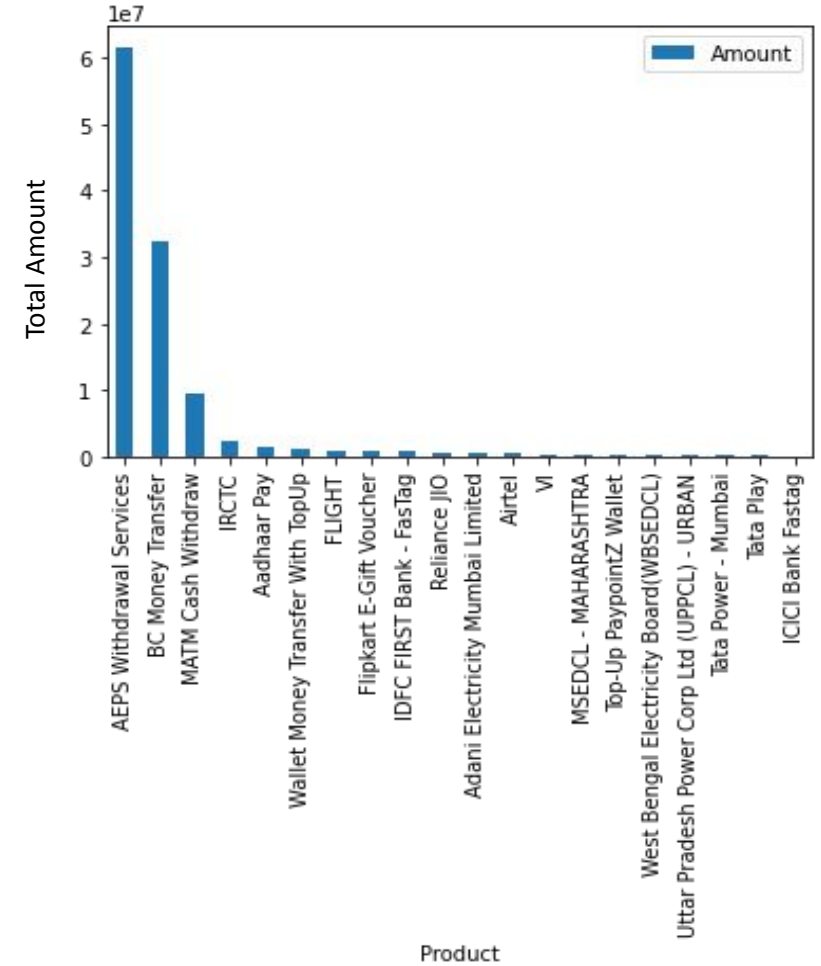
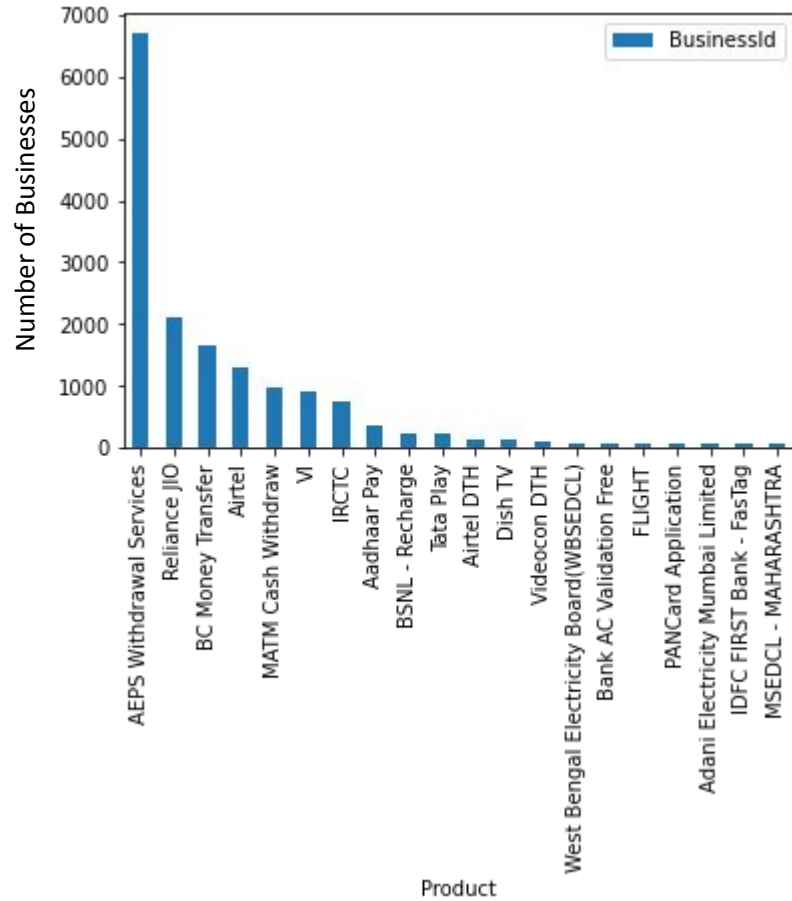
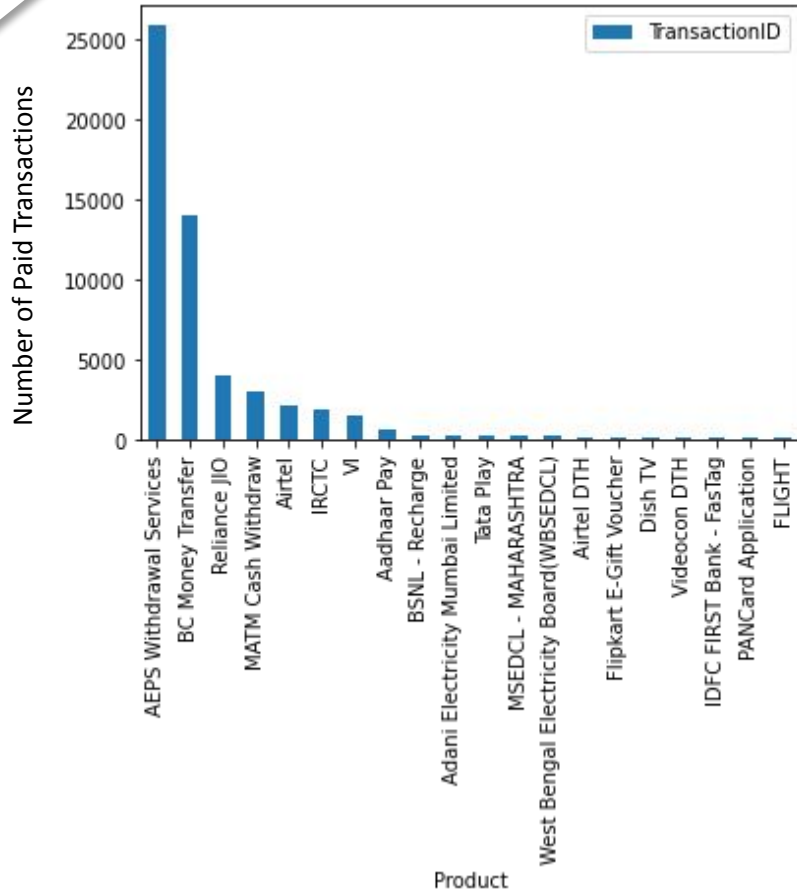
Percentage of Transactions happening per product

- AEPS Withdrawal service comprises of almost 50% of paid Transactions
- BC Money transfer for about 25%
- All other products drops down to less than 10% of transactions.



- These top 6 Products comprises of 90% of all business transactions.
- Priority should be given on improving these product's services.

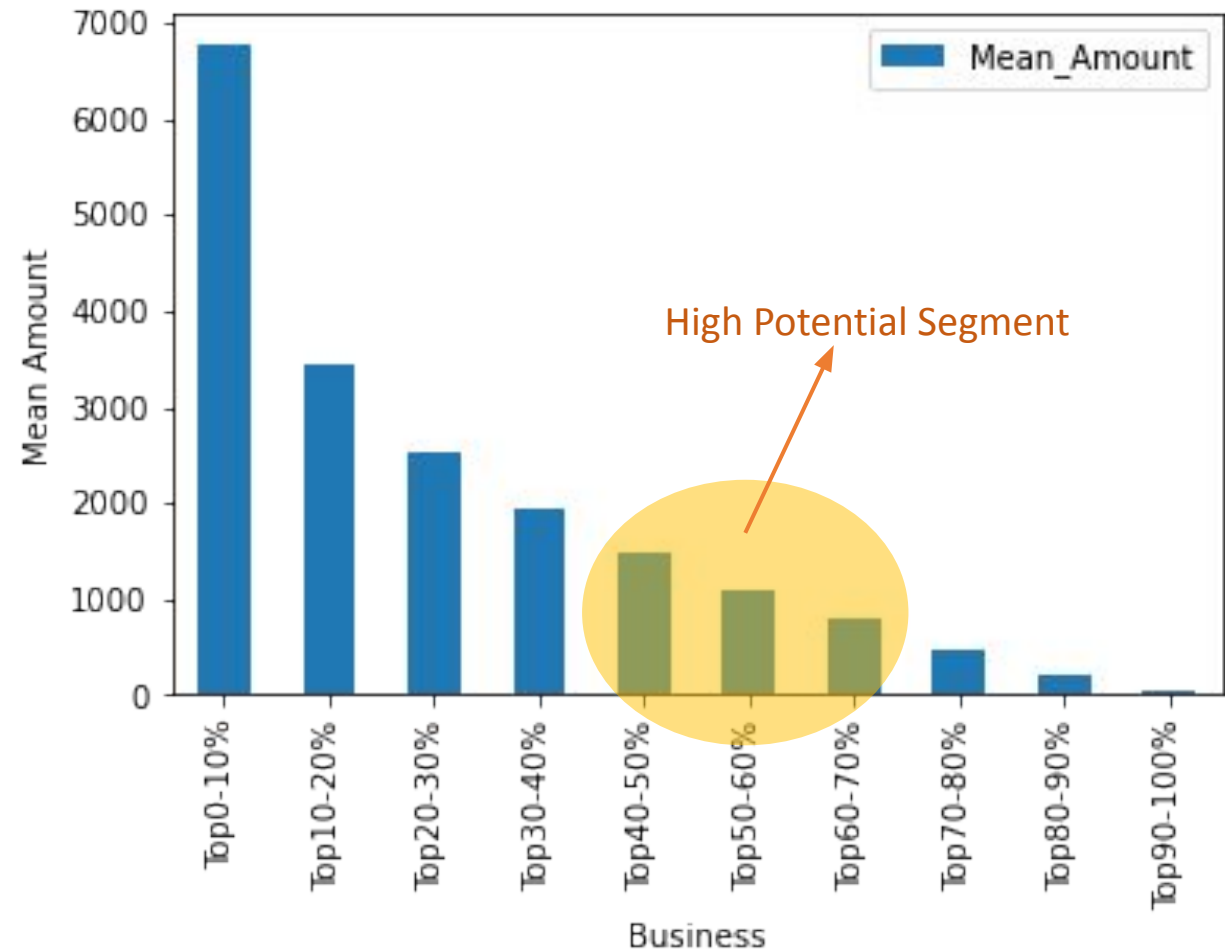
Paid Transaction Statistics



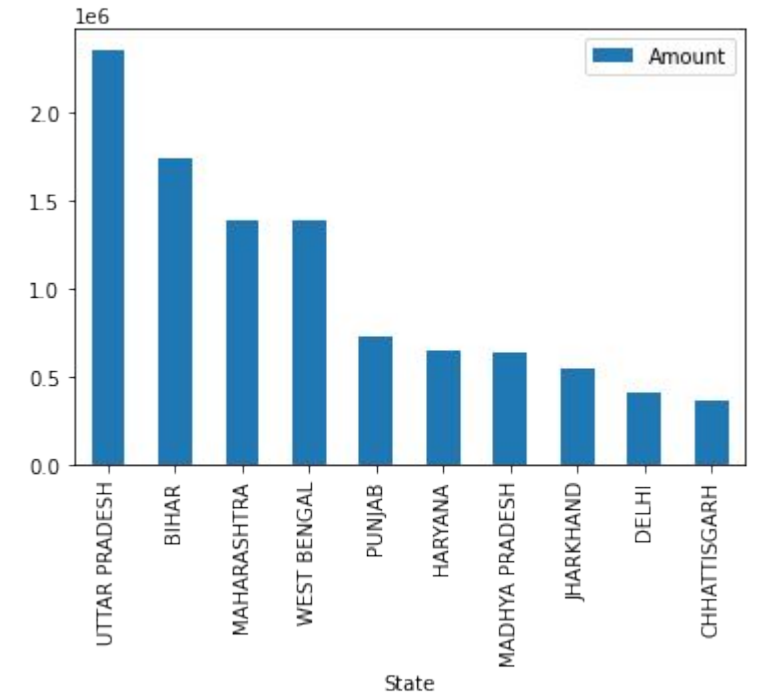
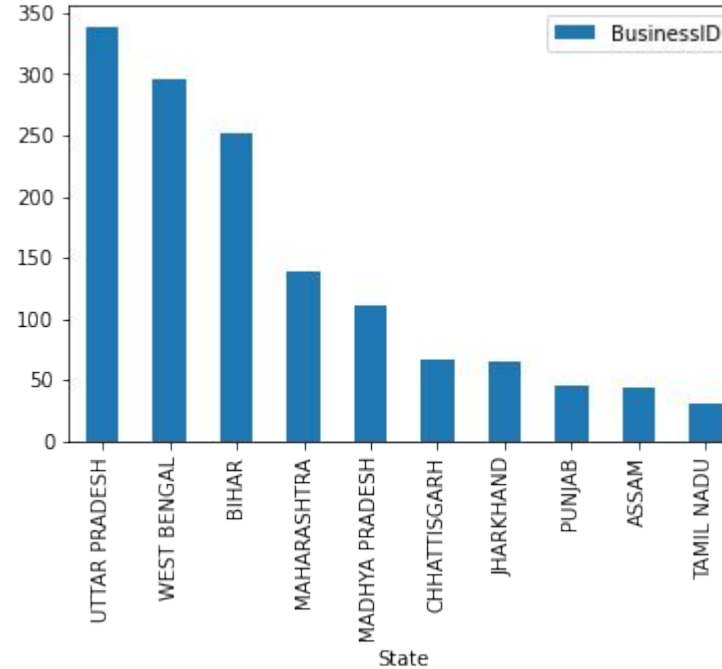
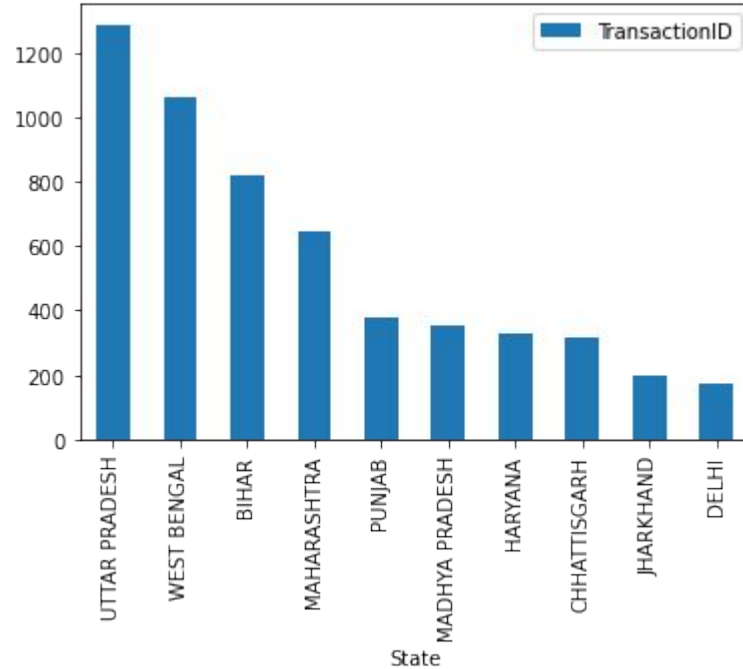
- Number of businesses can be optimized for a place according to transaction Amount Volume and Geography.

Amount wise segmentation of top Business

- Mean Transaction Amount for Top 10% of businesses is about 2 times higher than the second segment of top 10-20%.
- Apart from Top 10%, remaining segments are showing fairly linear characteristic.
- **We can expect 10 % increase in Business Volume, using ML based Segmentation and targeted Recommendation.**

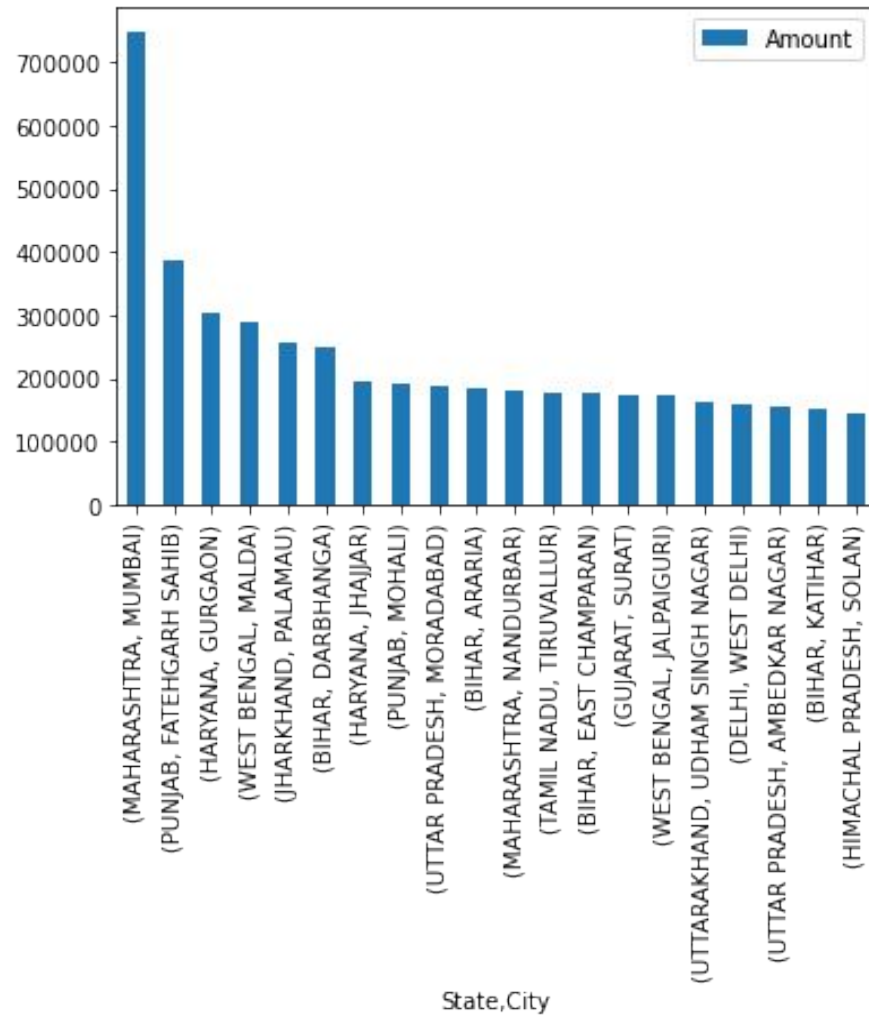


Address (State and City) Statistics

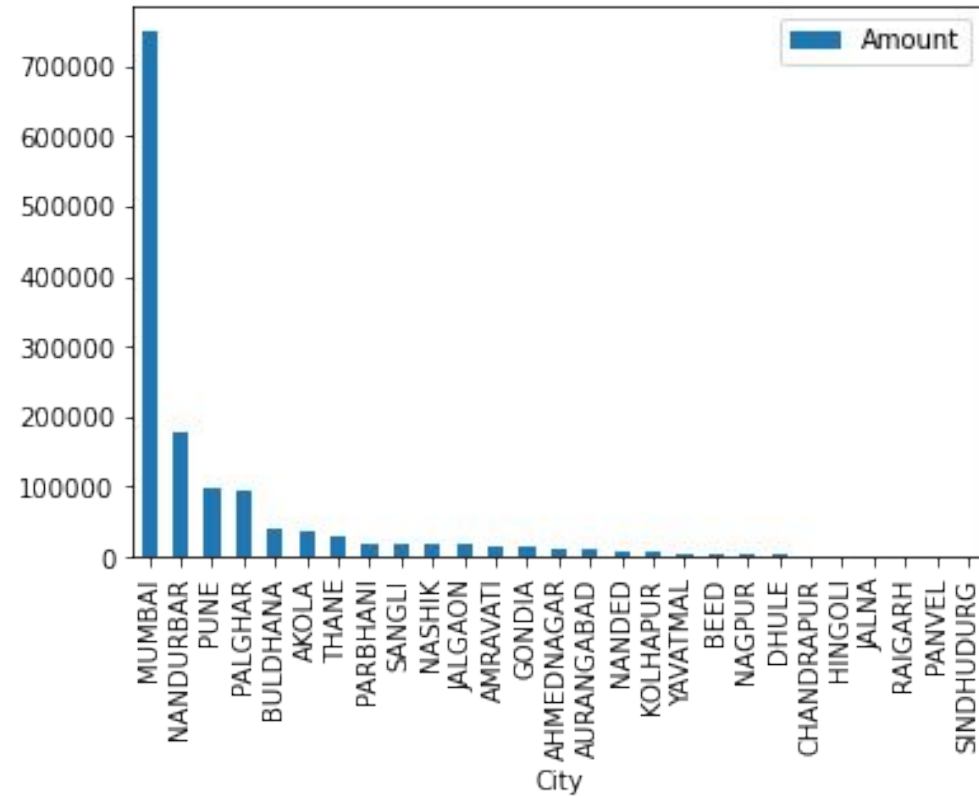


- Top 5 States for the businesses are Uttar Pradesh, West Bengal, Bihar, Maharashtra, Punjab
- Though West Bengal is having more transactions and businesses compare to Bihar and Maharashtra. Bihar and Maharashtra transacted more Amount Volume.

City Wise Amount volume Statistics



- Out of 632 cities, above Top 20 cities comprises of the ~ 40% Amount transacted



- For Maharashtra, Mumbai is Having very high transaction Amount Volume, However cities with equal potential like Pune are lagging behind.
- Targeted marketing with area segmentation can be utilized in similar cities effectively

- Categorization of Businesses based on performance.
- Segmentation of Businesses to detect high potential Businesses.
- Top products for launching and developing in new areas.
- Area Segmentation to detect high potential Areas to focus on.
- Developing a recommendation model to reach out to new customers through existing businesses.

- Model Development
- Testing of Model on real time data
- Deployment of the model





Thanks Everyone