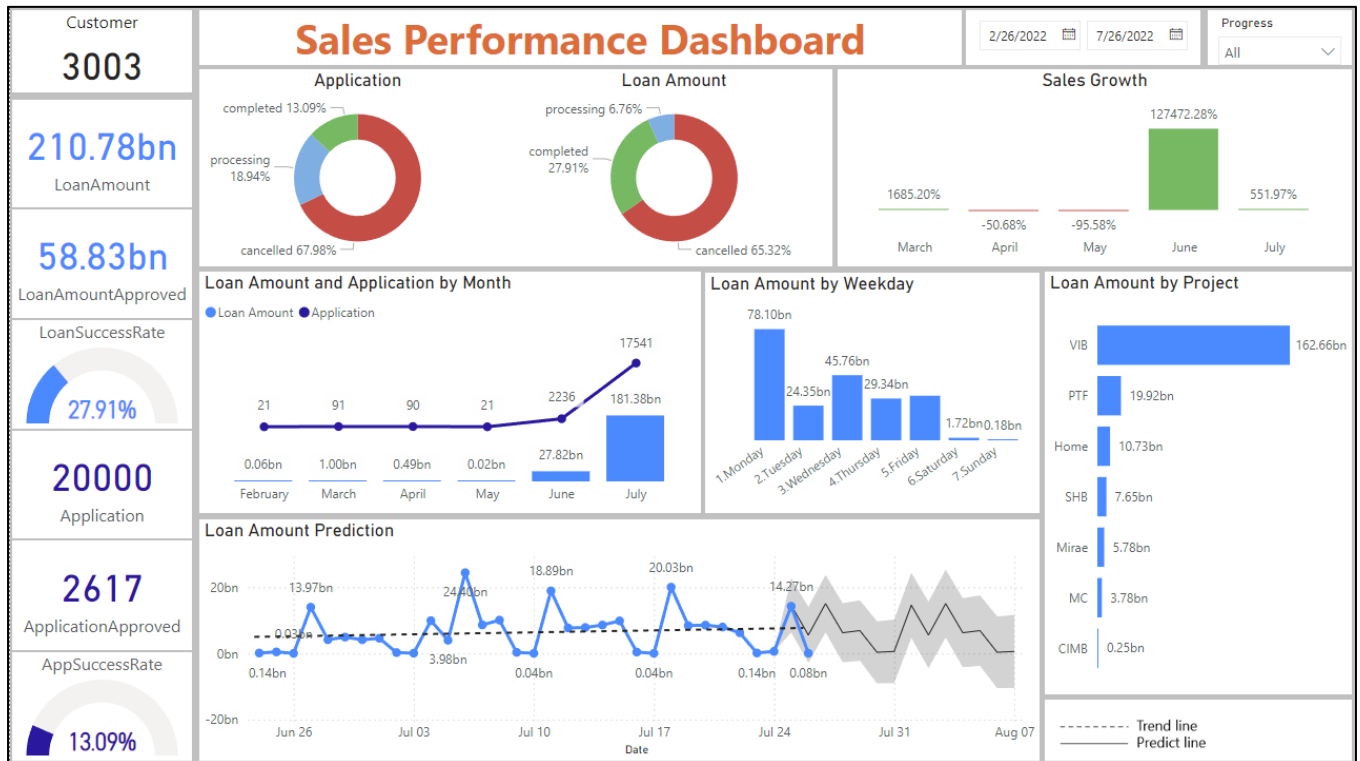


# Report

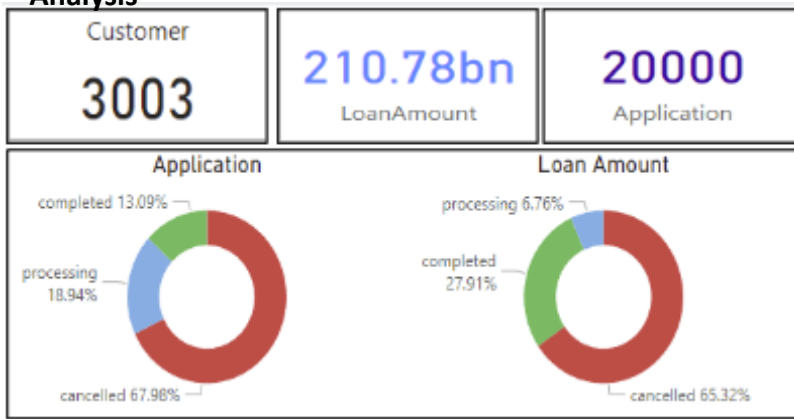
## Dashboard Overview



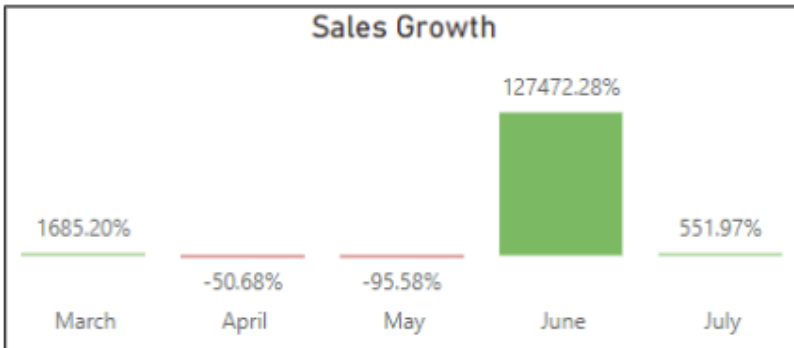
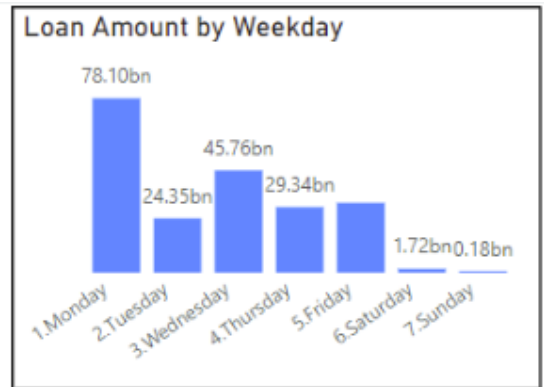
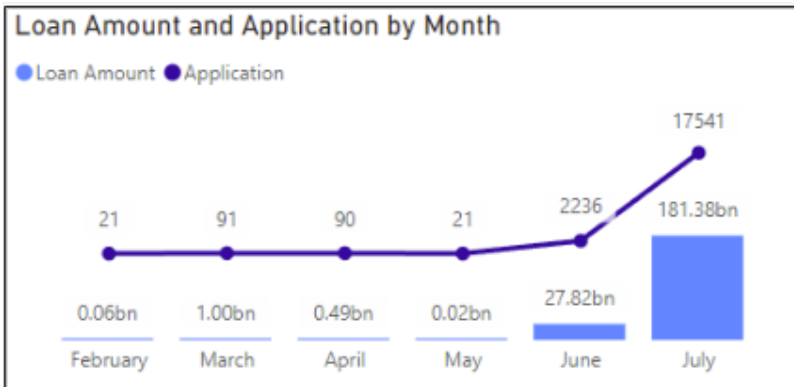
### Note:

- Data extracted from 2/26/2022 to 7/26/2022.
- The tables that use the original data are '1.main\_app' and '1.DimProjects'
- The data is missing for many days, making the data not continuous. To ensure objectivity, I will analyze based on original data.
- Because the 'id' column is unique, I will remove duplicate values.
- To make the analysis process easier, I made some edits on the data set such as unpivot, adding calculated columns, adding measures, adding dimension tables, , manage relationship between tables.

## Analysis



During this period, there were 3,003 people using the service with 20,000 loan applications, loan amount up to 210.78 billion. However, only 13.09% of the total applications were approved with the amount only accounting for 27.91% of the total loan amount.

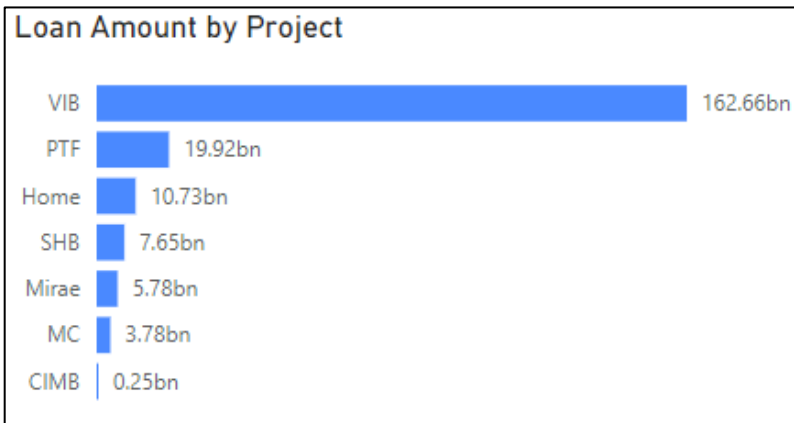


We see that the difference between the month with the highest loan applications (July, 17,541 applications, 181.38 billion loan amount) and the lowest (May, 21 applications, 0.02 billion loan amount) is very high.

The growth between months is inconsistent, alternating between

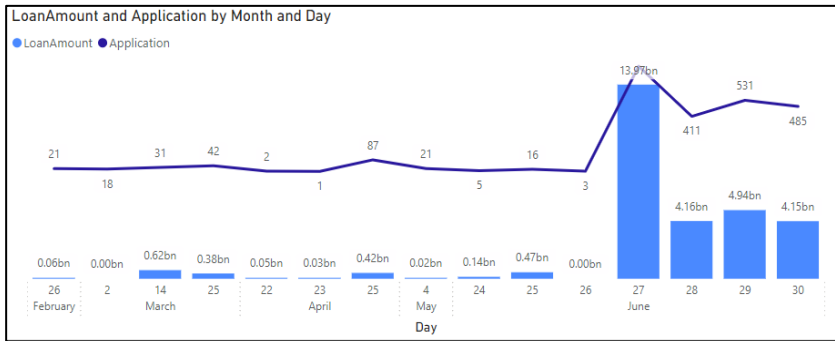
months of positive growth are 2 months of negative growth (May, -95.58%). Unusually, June's growth was explosive with 127472.28% compared to the previous month.

The trend of borrowing money gradually decreases on weekdays, the highest demand is on Mondays and bottoms out on the weekends. It is easy to understand that this is the time when lending institutions do not work.



VIB is the most trusted organization with the amount of loan requests from users being 162.66 billion, reaching 77.17%. On the other hand, users request to borrow CIMB loan of 0.25 billion, less than 1% of the total.

## Forecast

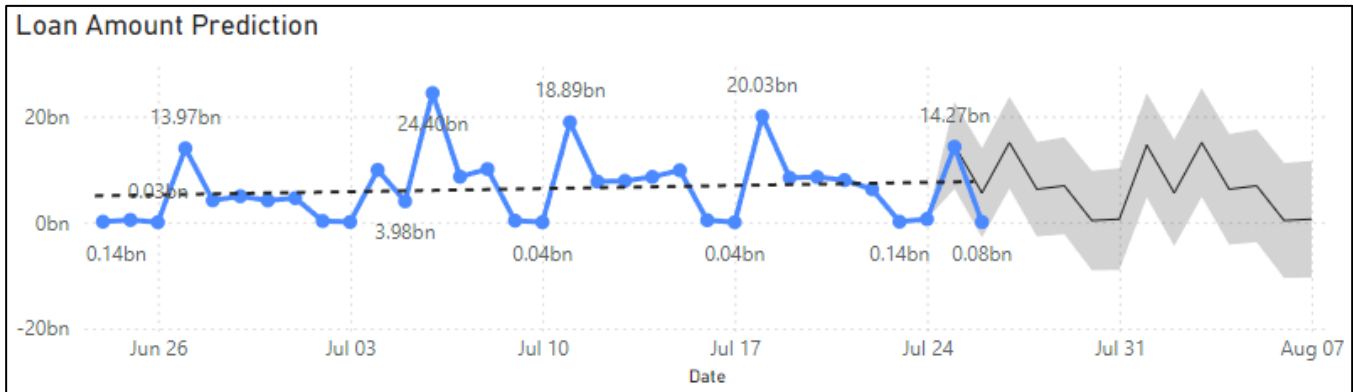
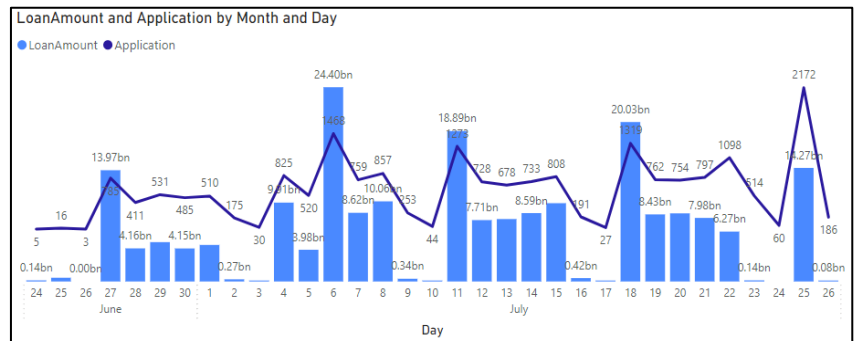


To be able to forecast the next 3 months, it is necessary to have data from previous months including data from those 3 months last year. However, when looking at it, the data is not enough and the data is also not continuous so forecasting for the next 3 months is impossible.

We have continuous data from 6/24/2022 to 7/26/2022. To make sure the predicted values are not too far from reality and inaccurate, so I will use this data to predict loan amount for the next 10 days (30% of the data set).

On 6/26/2022 and 7/24/2022

have applications but do not generate loan amounts. I will replace the value of 0 loan amount on these 2 days with the average value corresponding to the applications number.



Date	forecastValue	confidenceHighBound	confidenceLowBound
7/27/2022	15,059,840,062	23,727,811,353	6,391,868,770
7/28/2022	6,259,843,447	15,167,005,597	-2,647,318,704
7/29/2022	6,911,827,133	16,051,922,802	-2,228,268,537
7/30/2022	355,607,060	9,722,845,719	-9,011,631,600
7/31/2022	617,418,316	10,206,420,943	-8,971,584,311
8/1/2022	14,553,192,785	24,360,656,569	4,745,729,002
8/2/2022	5,578,585,183	15,598,074,049	-4,440,903,683
8/3/2022	15,059,840,062	25,286,959,324	4,832,720,800
8/4/2022	6,259,843,447	16,690,460,862	-4,170,773,968
8/5/2022	6,911,827,133	17,542,047,776	-3,718,393,511
8/6/2022	355,607,060	11,181,751,442	-10,470,537,323
8/7/2022	617,418,316	11,636,003,228	-10,401,166,596

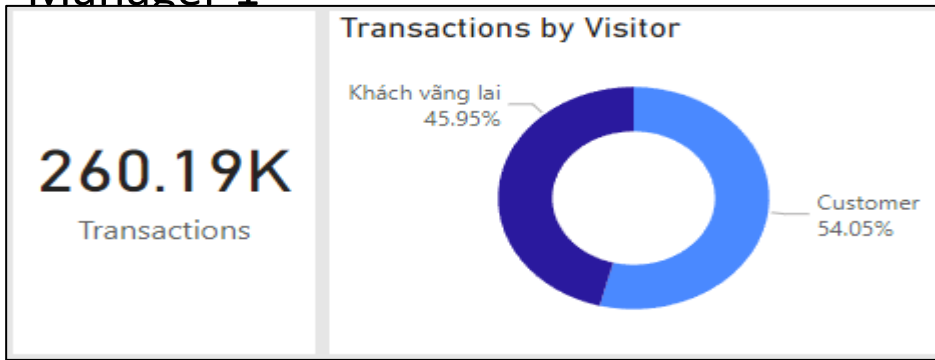
I use the trendline and prediction tool in power bi. It's easy to see the trend of loan requests increasing in the near future, and I've exported data predicting loan amounts for the next 10 days into the side table.

# Request

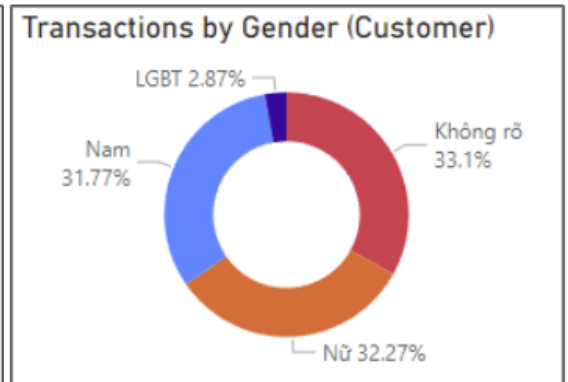
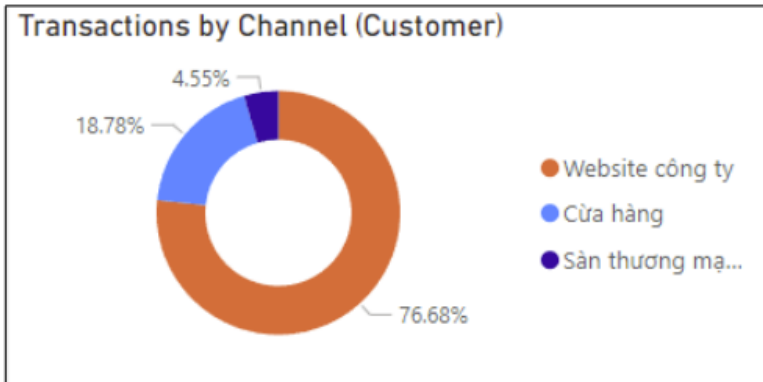
## Note:

- Data extracted from 11/1/2019 to 2/8/2020.
- The tables that use the original data are '2.Data' and '2.visitor\_information'
- To make the analysis process easier, I made some edits on the data set such as adding calculated columns, adding measures, adding dimension tables, manage relationship between tables.
- Manager 1:
  - Because Manager 1 usually meets every Friday to evaluate and give sales direction, so I provide her with weekly transaction data.
- Manager 2:
  - Use co-hort analysis method to calculate Retention rate

# Manager 1



During this period, 260.19K transactions were performed, the number of transactions of “Khách vắng lại” reached 45.95%, and the number of registered customers (Customer) reached 54.05%.

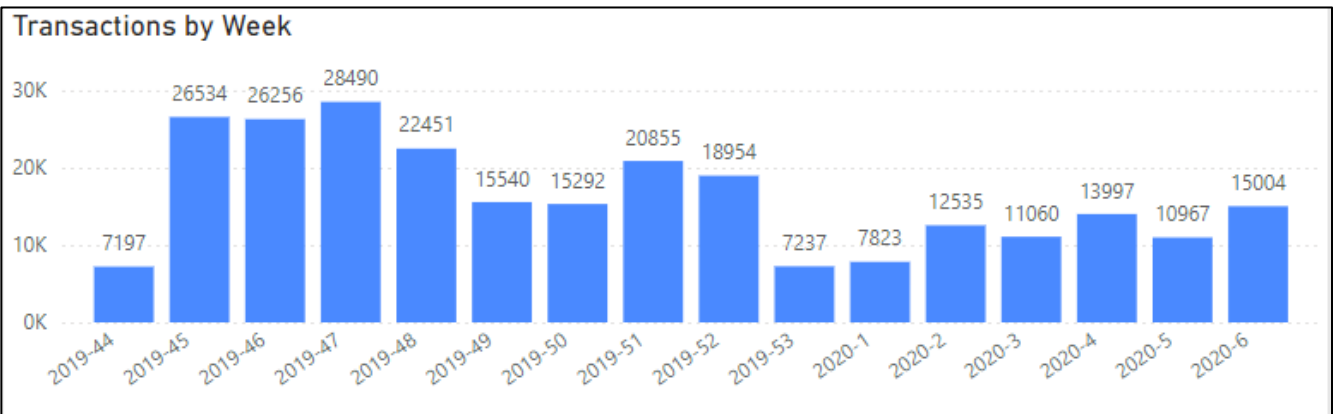
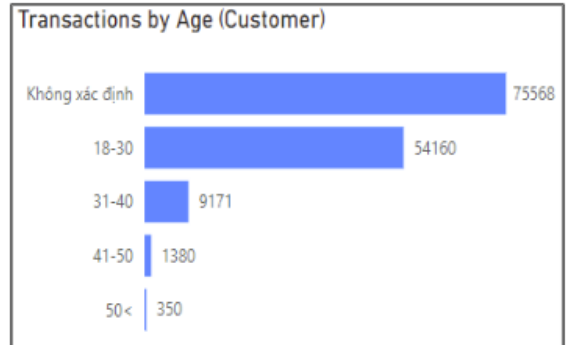


Because the identity and number of “Khách vắng lại” cannot be determined, I will conduct an analysis based on Customer.

Among Customer, Nam and Nữ genders have nearly the same number of transactions (about 32%), LGBT reaches 2.87%, the remaining gender has not been determined.

Through channels, the number of transactions arising from ‘Website công ty’ reached 76.68%, channels ‘Cửa hàng’ and ‘Sàn thương mại điện tử’ reached 18.78% and 4.55% respectively.

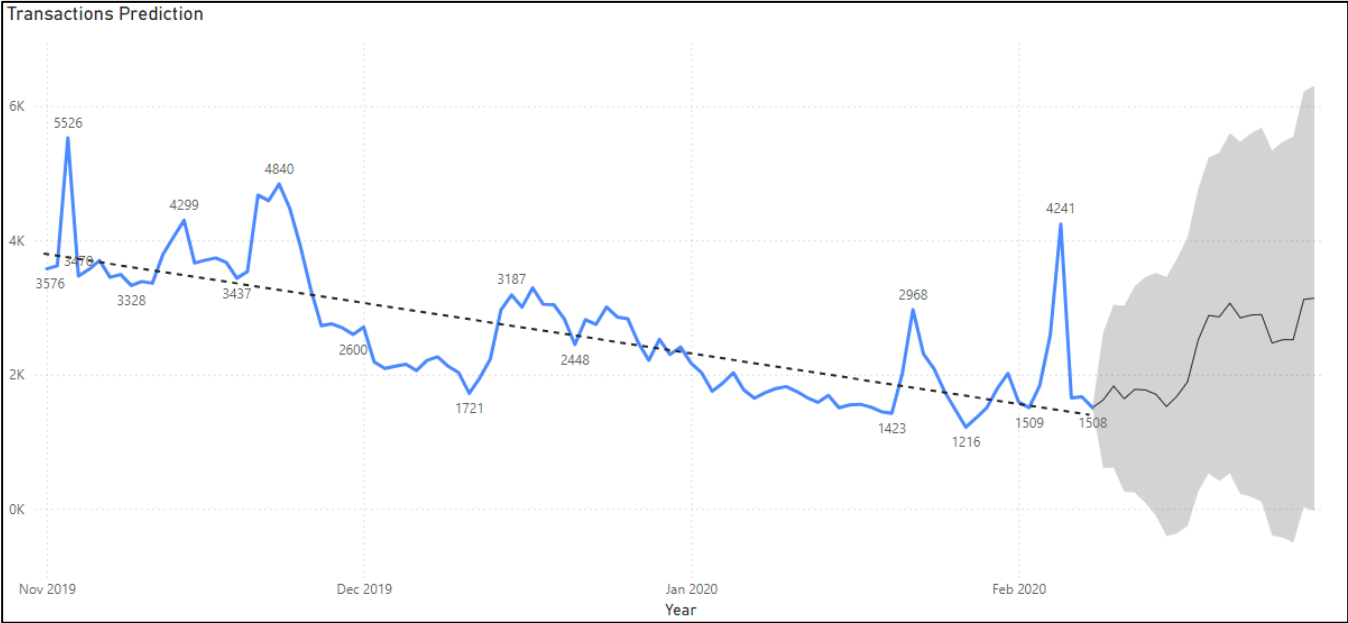
The age group 18-30 has made 54160 transactions, the number of transactions gradually decreases with increasing age groups, the lowest is >50 making 350 transactions.



The number of transactions peaked in week 2019-47 then gradually decreased until the last weeks of that year.

In 2020, there have been signs of a slight increase, and the cycle of increases and decreases alternating between weeks.

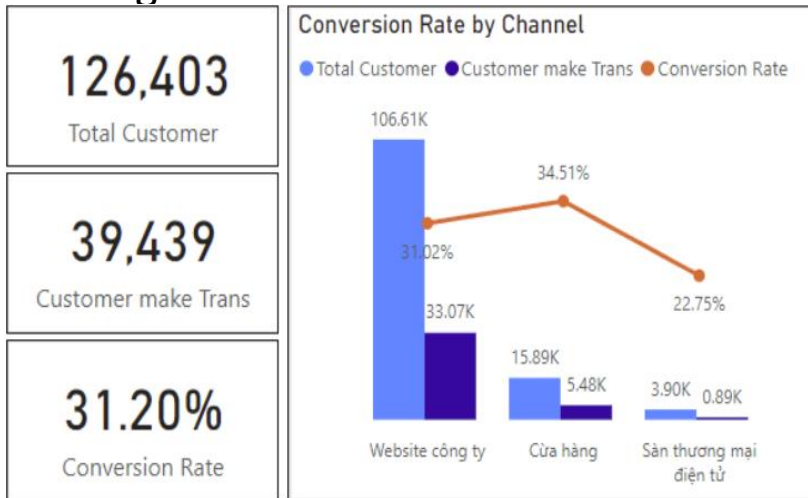
Forecast



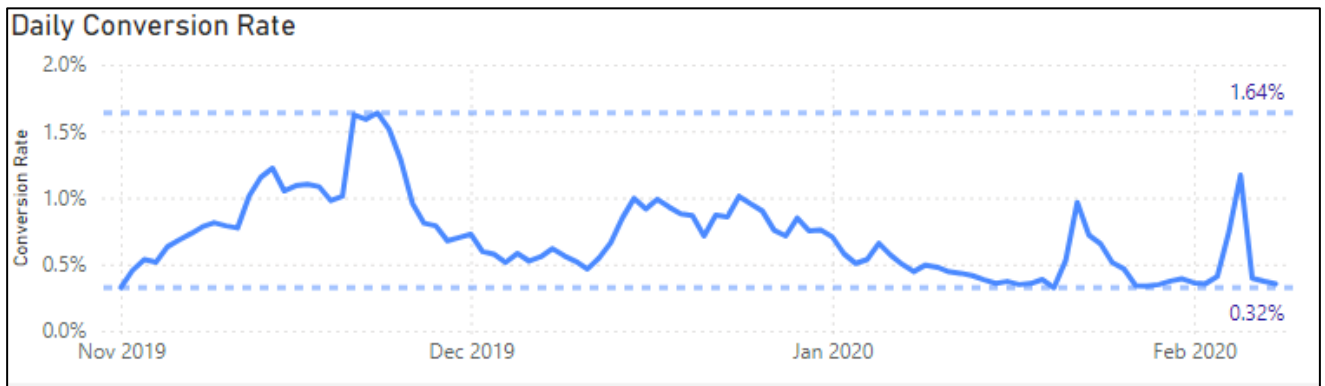
I use the trendline and prediction tool in power bi. It's easy to see the trend of number of transactions, and I've exported data predicting the number of transaction until the end of the month into the side table (**49162** transactions).

Date	forecastValue	confidenceHighBound	confidenceLowBound
2/9/2020	1620	2627	612
2/10/2020	1829	3040	617
2/11/2020	1640	3025	255
2/12/2020	1780	3319	241
2/13/2020	1771	3450	92
2/14/2020	1707	3516	-101
2/15/2020	1525	3454	-404
2/16/2020	1679	3722	-364
2/17/2020	1894	4045	-256
2/18/2020	2513	4766	260
2/19/2020	2882	5233	531
2/20/2020	2860	5304	415
2/21/2020	3065	5600	529
2/22/2020	2845	5468	222
2/23/2020	2888	5595	181
2/24/2020	2895	5684	105
2/25/2020	2470	5339	-399
2/26/2020	2520	5467	-427
2/27/2020	2520	5542	-503
2/28/2020	3121	6217	25
2/29/2020	3138	6306	-30
Total	49162		

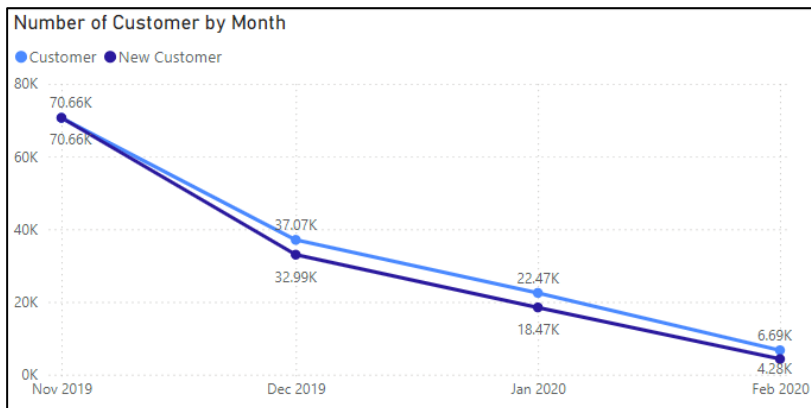
## Manager 2



During this period, we had 126,403 customers, of which 39,439 customers made transactions, the conversion rate reached 31.20%. The 'Cửa hàng' channel achieved the highest conversion rate of 34.51%, the lowest was the 'Sàn thương mại điện tử' channel at 22.75%. Although the 'Website công ty' channel has a significantly higher number of customers (106.61K) than the remaining channels, it only reaches 31.02%.



Daily conversion rate fluctuates between 0.32% and 1.64%, highest on 9/23/2019 and lowest on 1/20/2020.



The number of customers returning to use the service has decreased over the months, which is a worrying signal. Another thing is that the retention rate doesn't even reach the double-digit mark, only hovering around 5% - 7%.

Retention rate in the current month is only 6.90%, however this is data as of 2/8/2020, there are still about 20 days until the end of the month for us to find methods to improve the index.

Retention Rate				
Month	0	1	2	3
November 2019	100.00%	5.77%	2.49%	0.93%
December 2019	100.00%	6.78%	1.45%	
January 2020	100.00%	6.90%		
February 2020	100.00%			