

Data analysis in banking sector

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Problem

Customers began to leave Beta Bank. Every month. A little, but noticeable



Segmentation

2 Impact on outflow

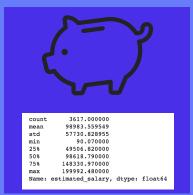
3 Recommendations

EDA. NaN-Value in balance column







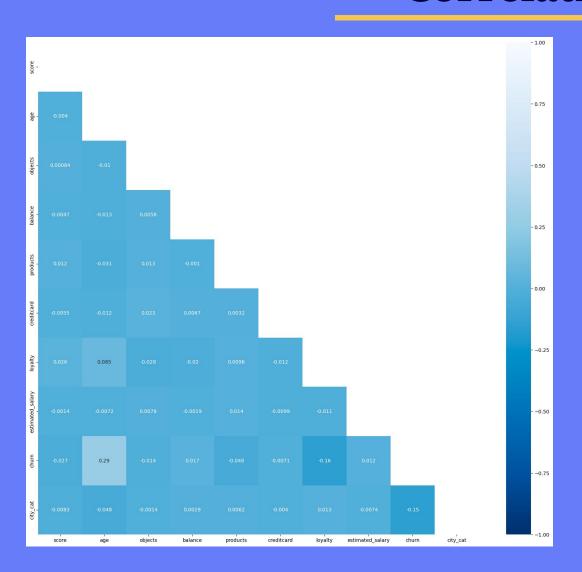


Reasons:

Nan-values can mean that client don't use debit card

Nan-values can mean that client use debit card but has a zero balance

Correlation





Segmentation by using products

One product

50,9%

Outflow is 28%, active and inactive clients are divided equally.

Two product

45,9%

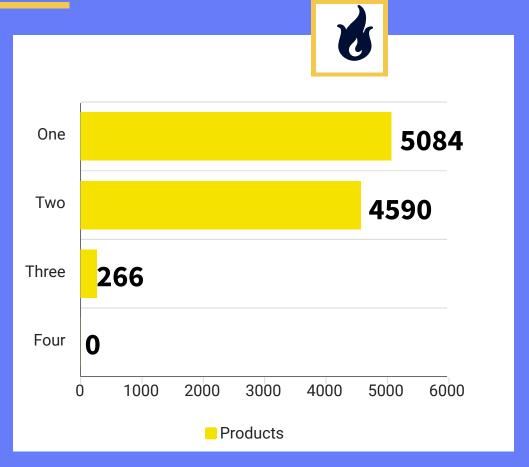
The lowest outflow is 8%.

Three product 25,8%

High outflow – 86%.

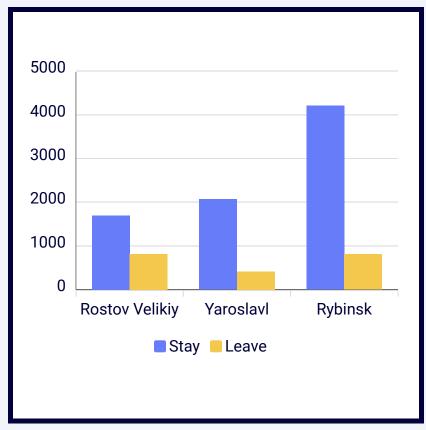
Four product 0,8%

100% outflow, the oldest group is the average age in the region of 45 years;



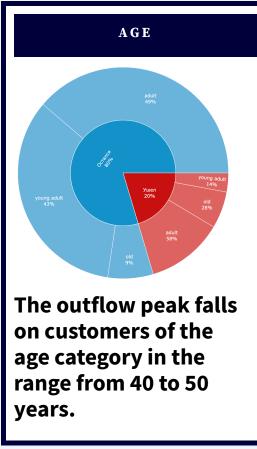
Segmentation by city

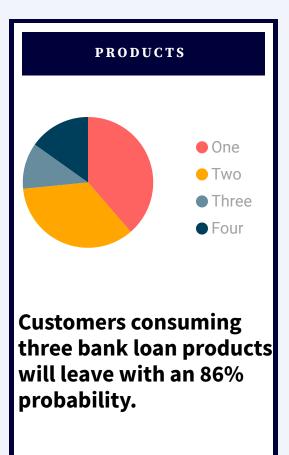




What influences the outflow?









Solution. Action plan

Debt consolidation

It is necessary to consolidate debt with some reduction in the interest rate for clients with 3-4 products.

Marketing promotions

It is proposed to conduct marketing campaigns with large chain stores

New products

For retired users: a card of the Mir payment system
For middle-aged clients
need to offer a second product at a reduced interest rate.

Quality control

It is necessary to conduct a quality check rendering of services



Thanks for your attention.