Аффинитивный анализ чеков покупок

Сбор и подготовка данных

• Сбор данных

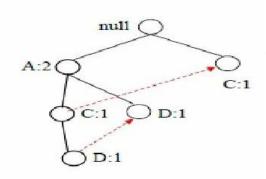
	ID Транзакции	Дата	Продукт	Кол-во	Цена, Руб.	Итоговая стоимость, Руб.
0	191	2024-11-21	Колбаса	4.000	250.00	1000.00000
1	191	2024-11-21	Бананы	5.000	90.00	450.00000
2	191	2024-11-21	Огурцы	4.000	100.00	400.00000
3	191	2024-11-21	Сливки	3.000	70.00	210.00000
4	191	2024-11-21	Алкоголь	4.000	300.00	1200.00000

- Предобработка данных
- Смёрдживание данных
- Использование Google Colab

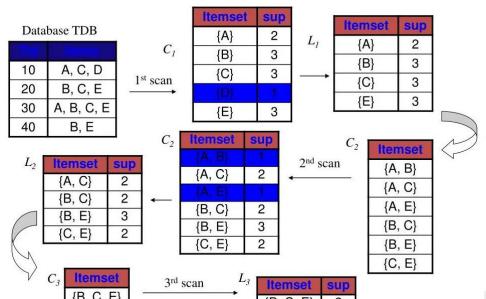
Методы и алгоритмы

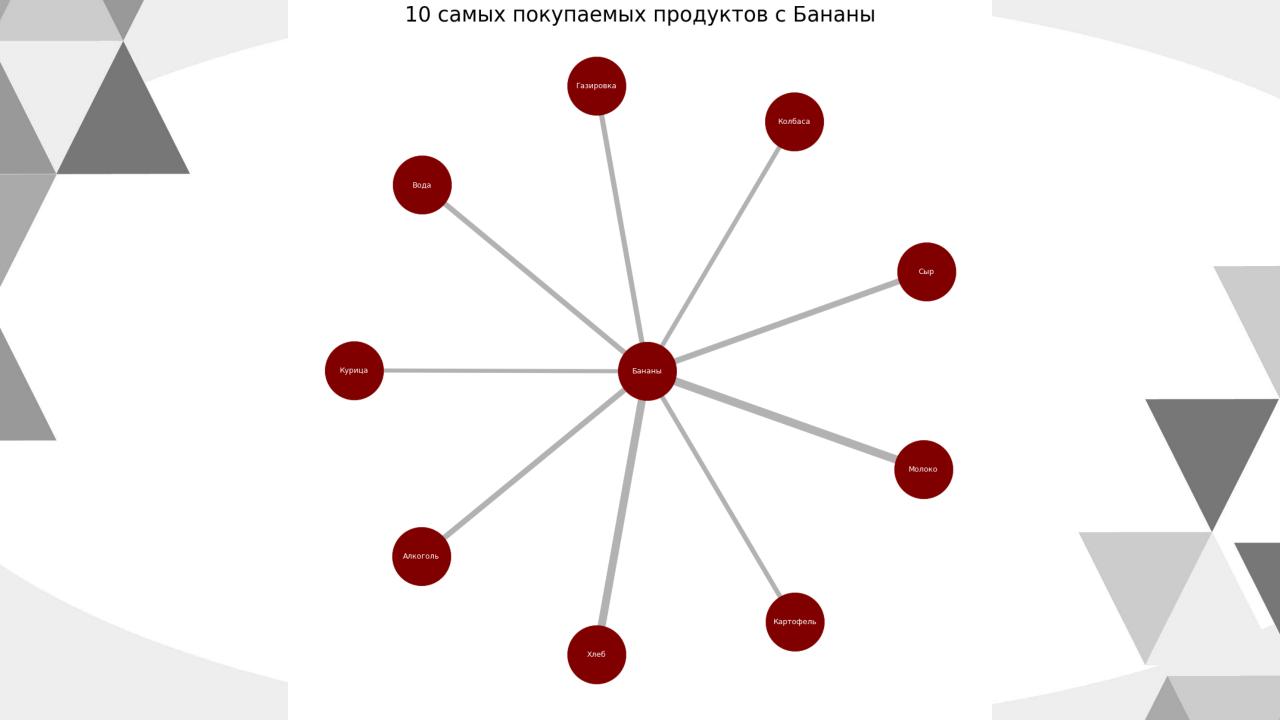
- Apriori Algorithm
- Association Rule Mining
- FP-growth Algorithm
- Статистические методы

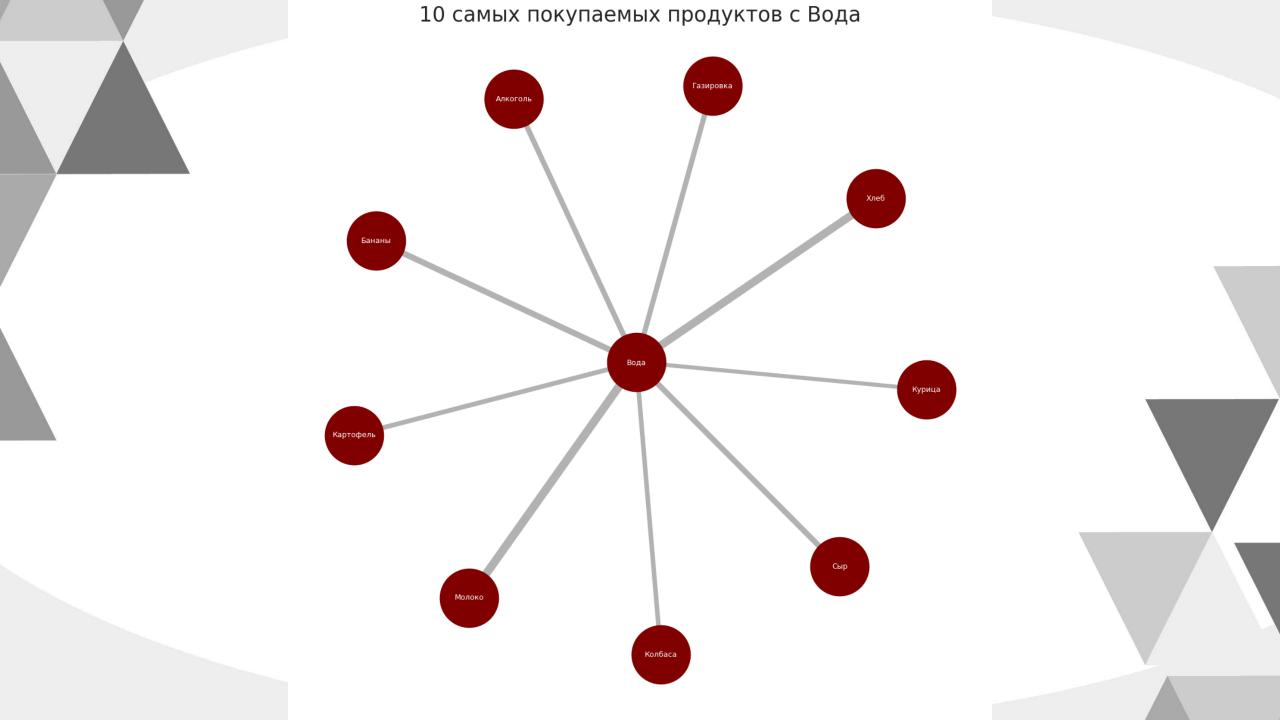
TID	Items
1	(A,B)-
2	{B,C,D}
3	{A,C,D,E}
4	{A,D,E}
-5	{A,B,C}
-6	{A,B,C,D}
7	{A}
-8	{A,B,C}-
9	{A,B,D}
10	{B,C,₽}

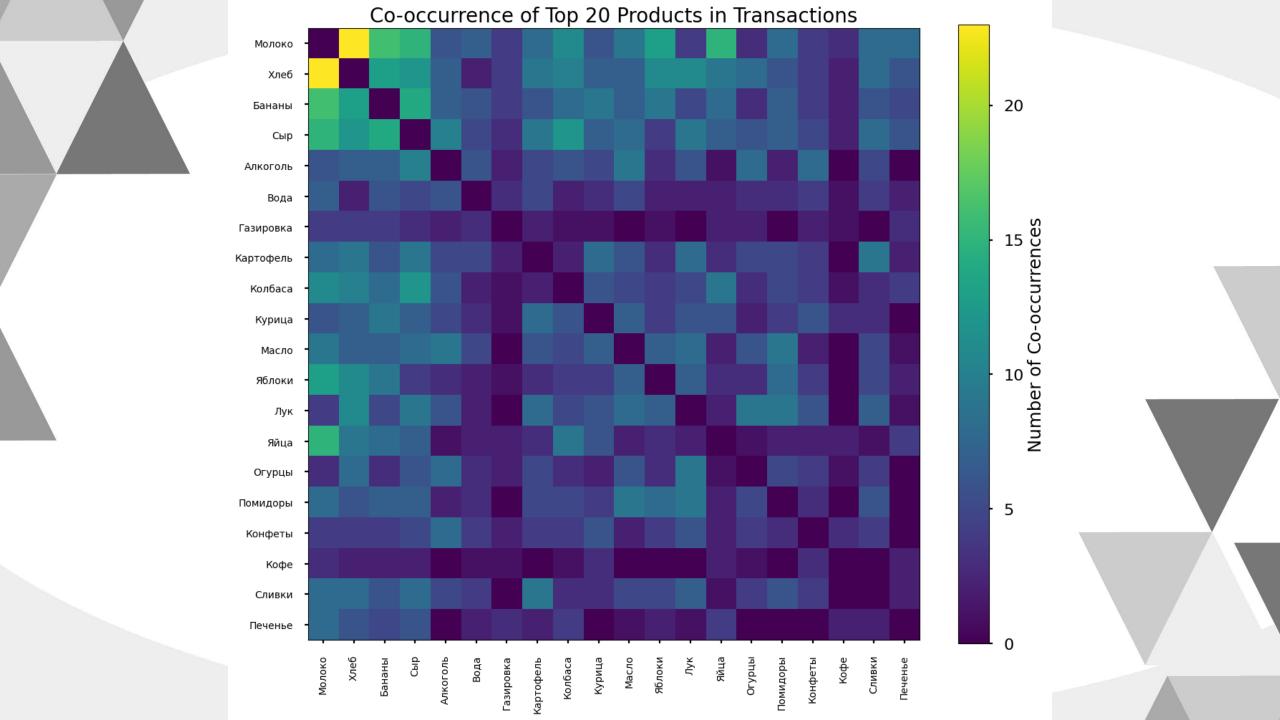


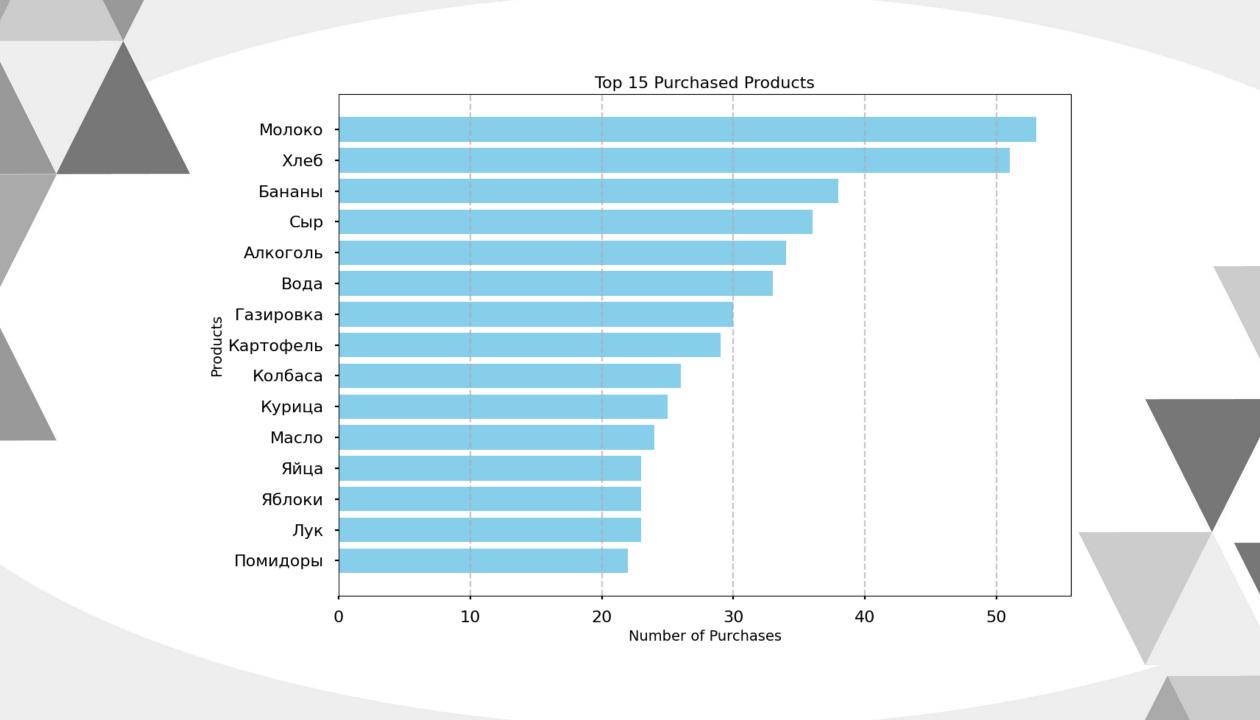
Transaction ID		Min. support 50%						
2000	A,B,C	Min. confidence 50%	,					
1000	A,C							
4000	A,D	Every ent them est	Cummont					
5000	B,E,F	Frequent Itemset						
0000	_,_,.	{A}	75%					
		└─→{B}	50%					
Formula 4	C.	{C}	50%					
For rule $A \Rightarrow$		{A,C}	50%					
support = support($\{A \cup C\}$) = 50% confidence = support($\{A \cup C\}$)/support($\{A\}$) = 66.6%								

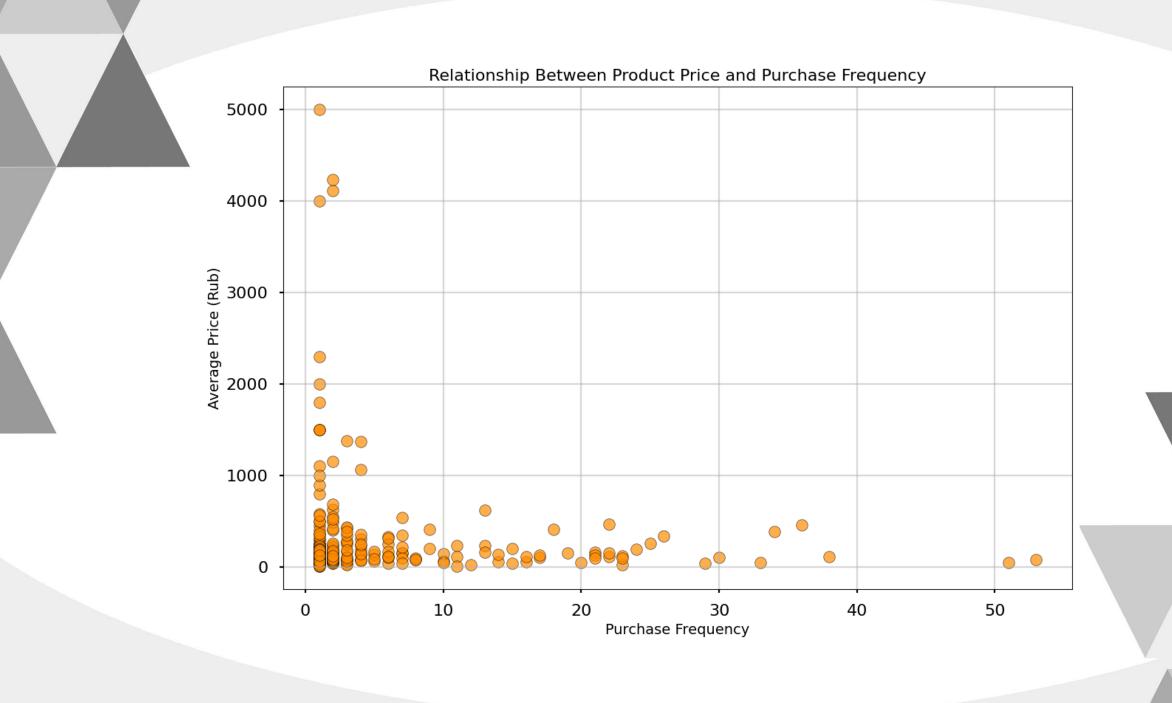


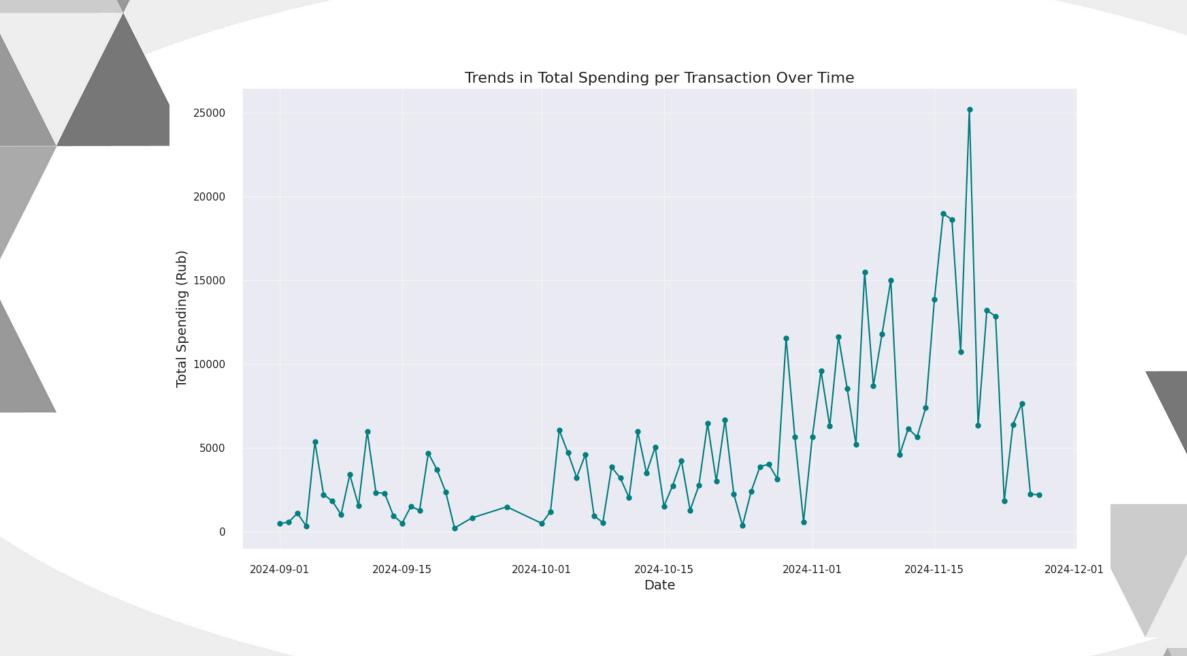


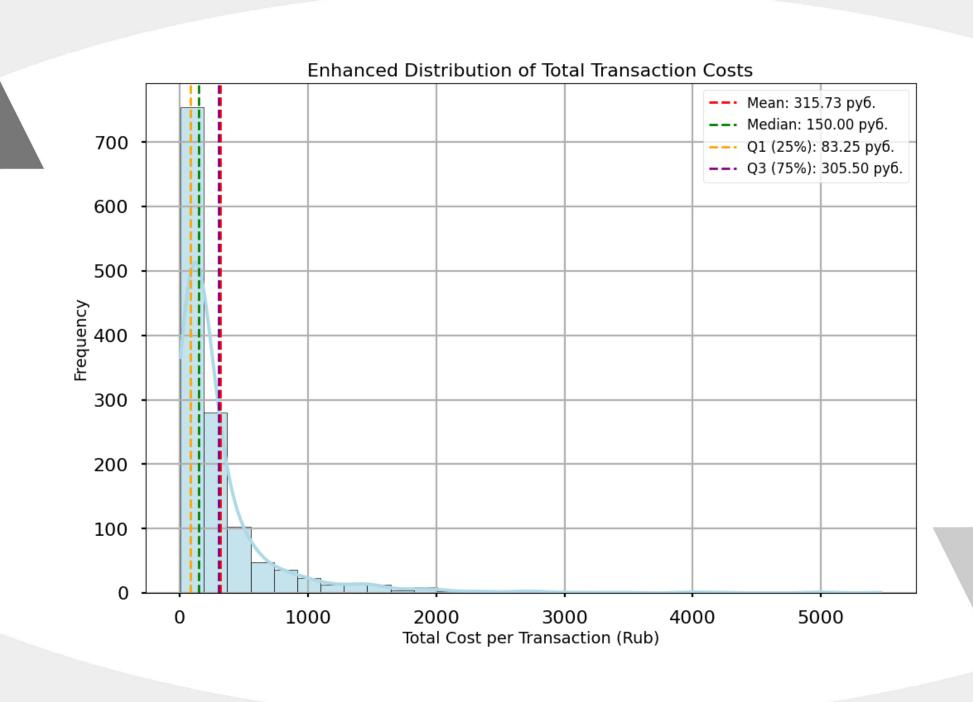


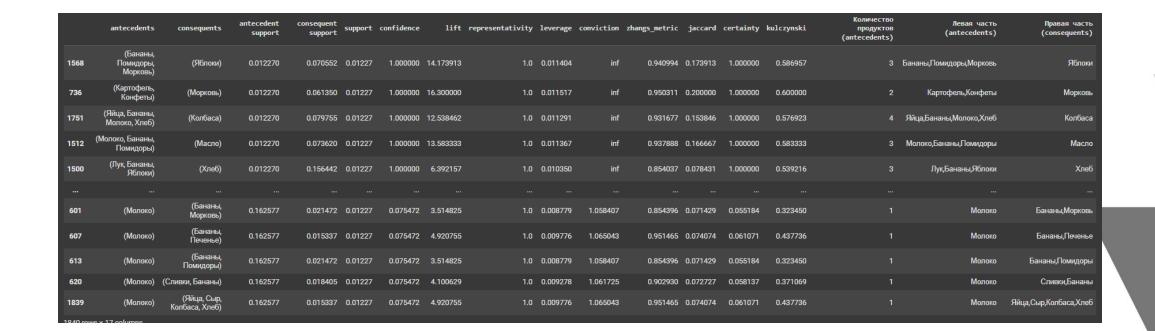


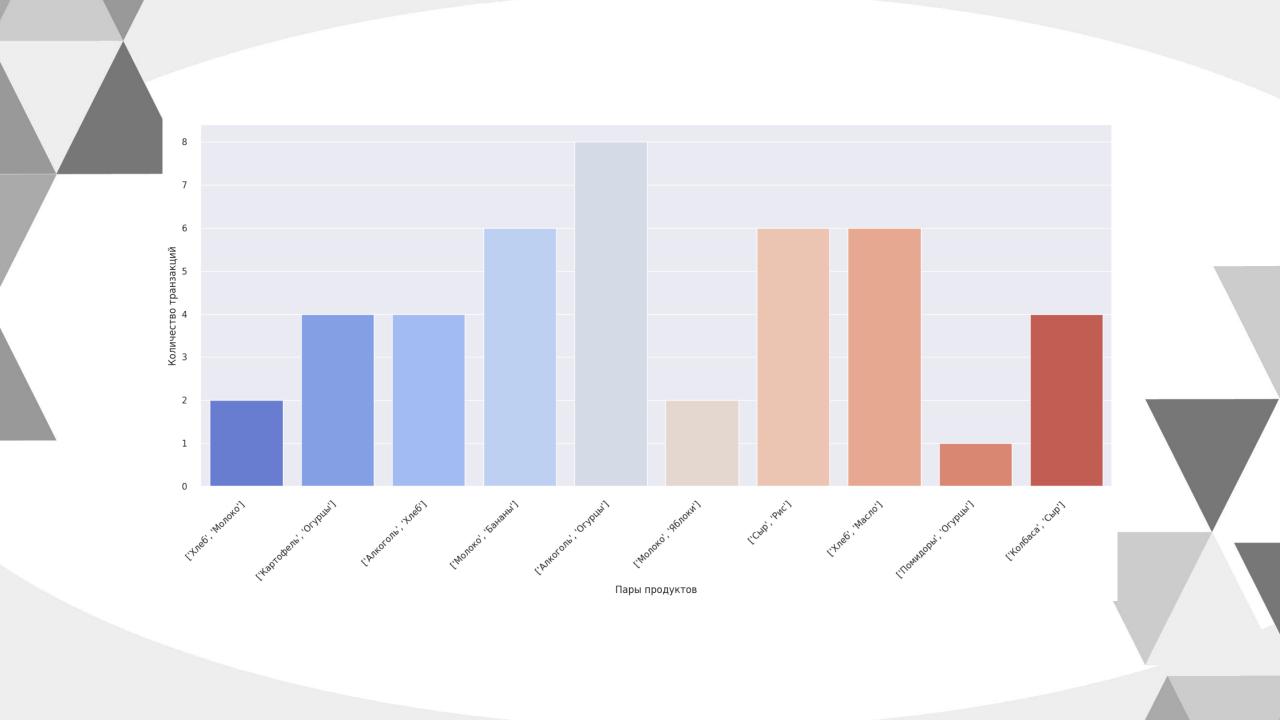


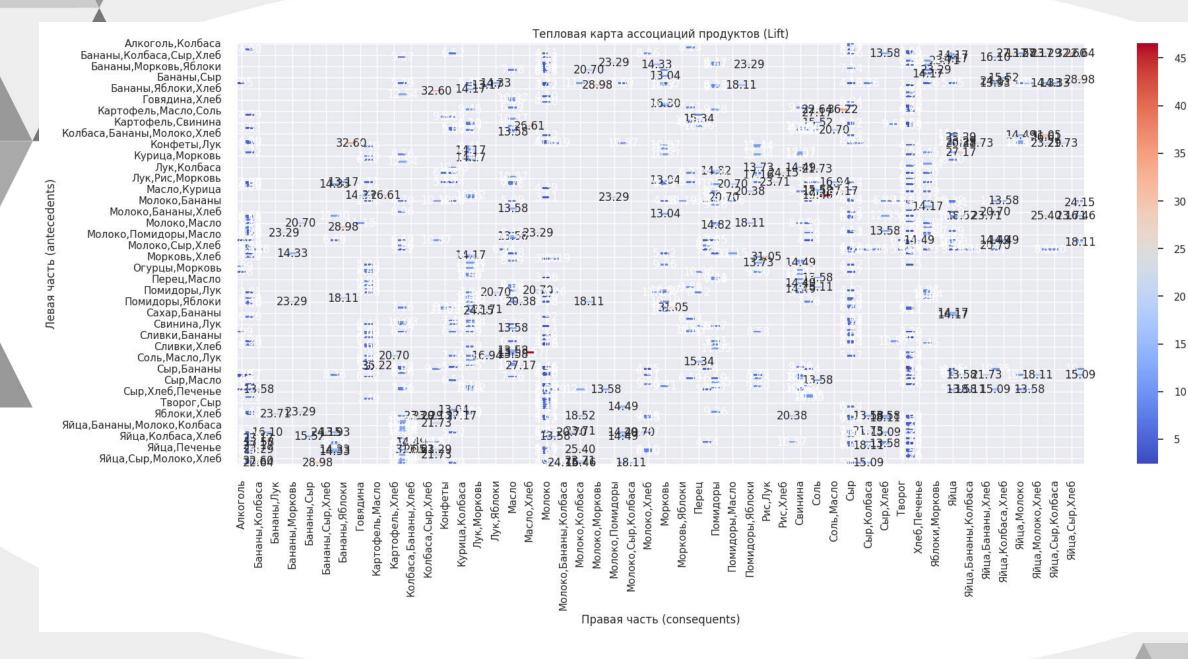


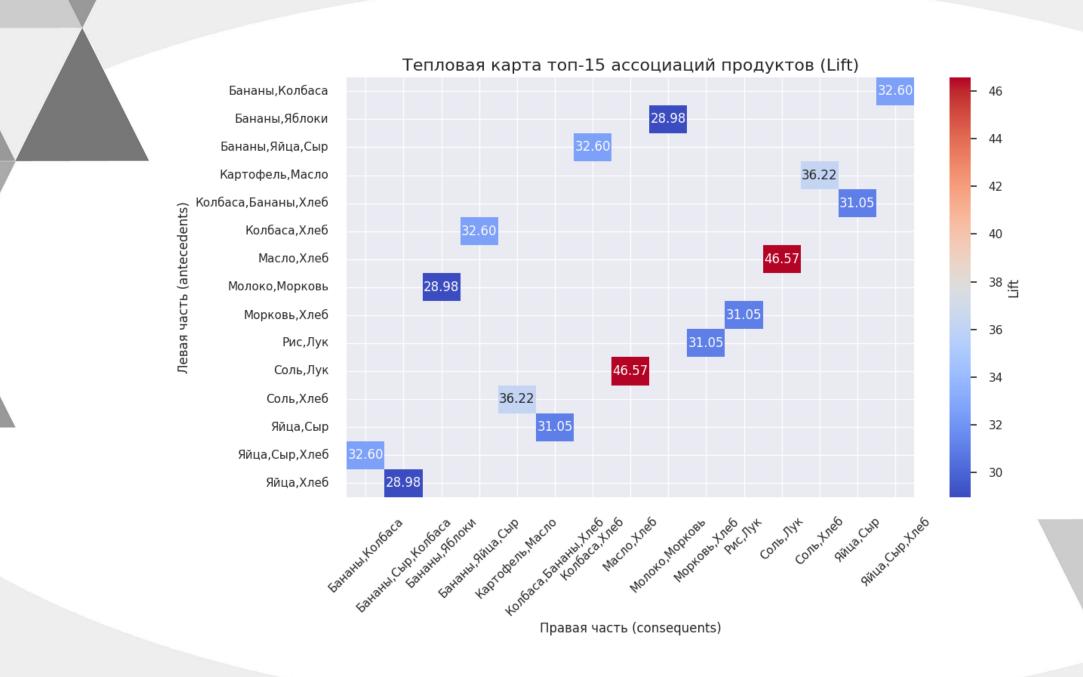


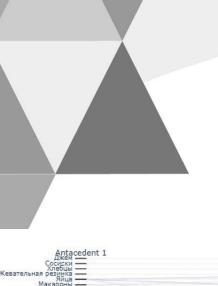








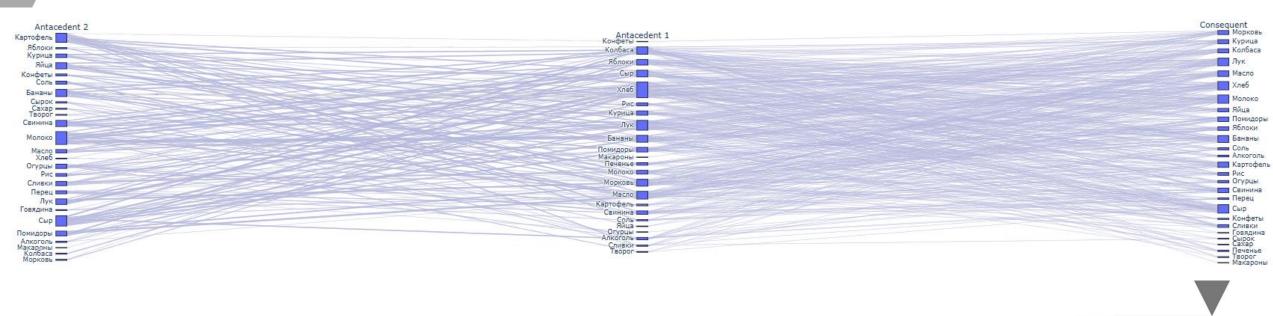




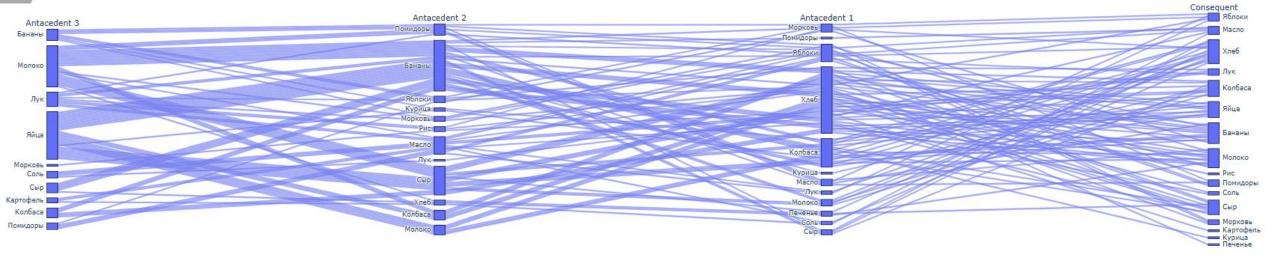


Солѕециелт хлеб Колбаса Молоко Молок

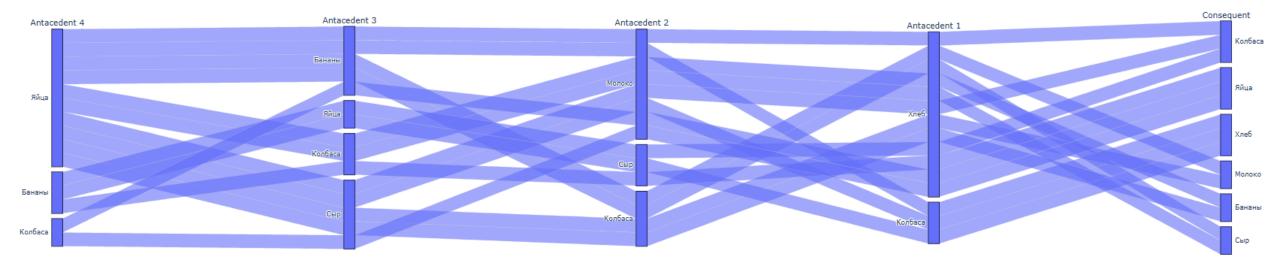


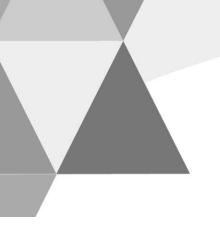


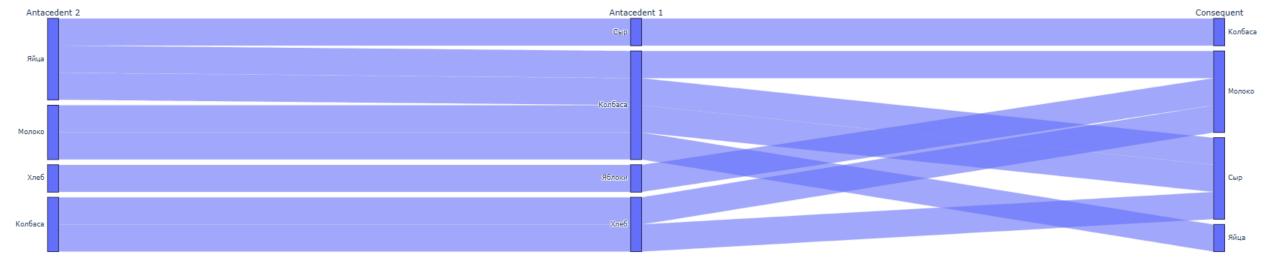












Спасибо за внимание