

SPRINT #6

POWER BI: VISUALIZATION AND REPORTS

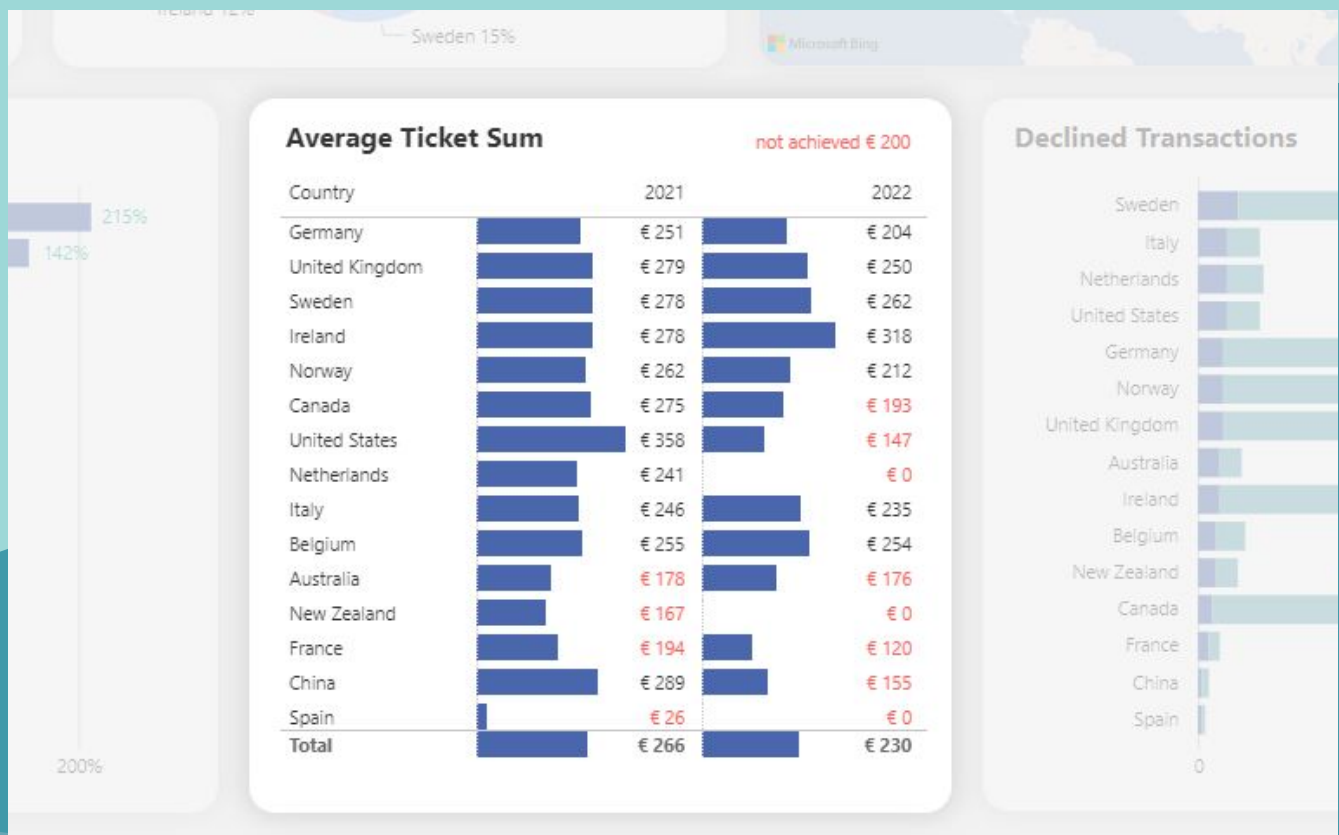
student:
Leo Kalugin



Date: 15/01/2025

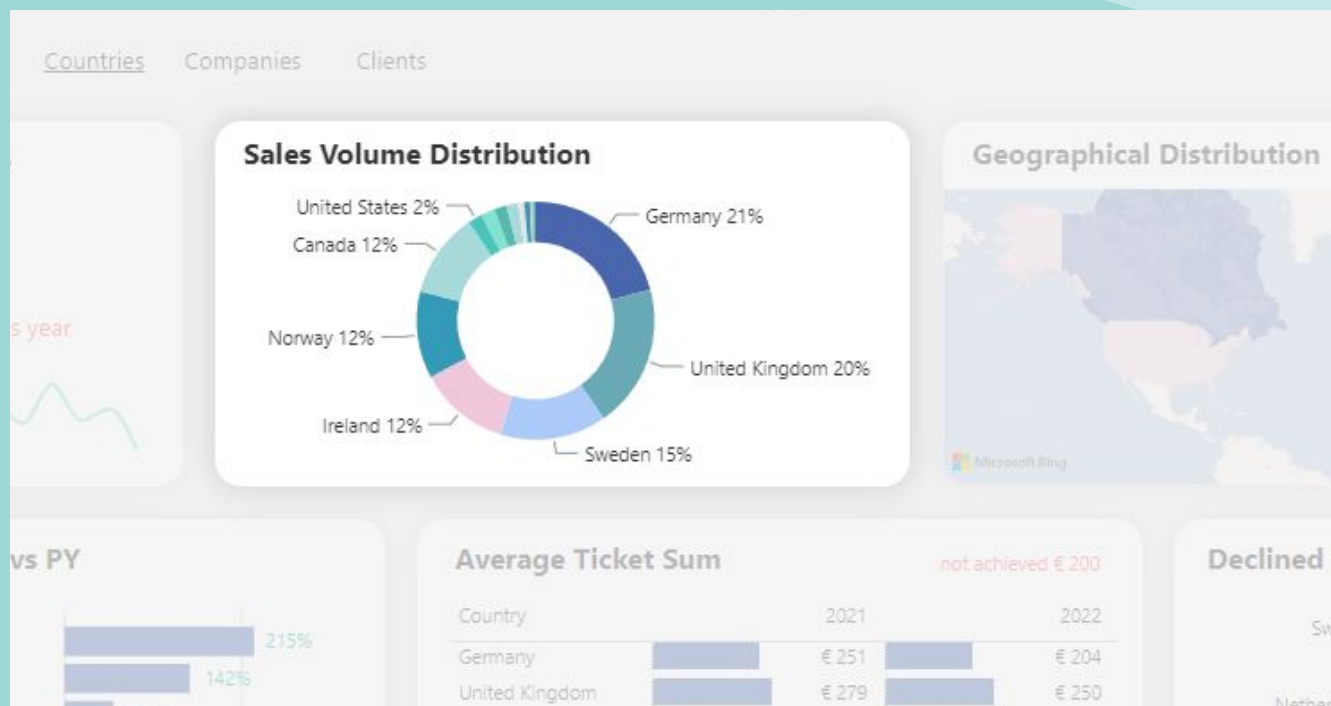
LEVEL 1 EXERCISE 1

The company needs to evaluate sales performance internationally. As part of this process, you are asked to choose a chart that details average sales broken down by country and year in a single visual presentation. It is necessary to point out the averages that are less than 200 euros per year.



LEVEL 1 EXERCISE 2

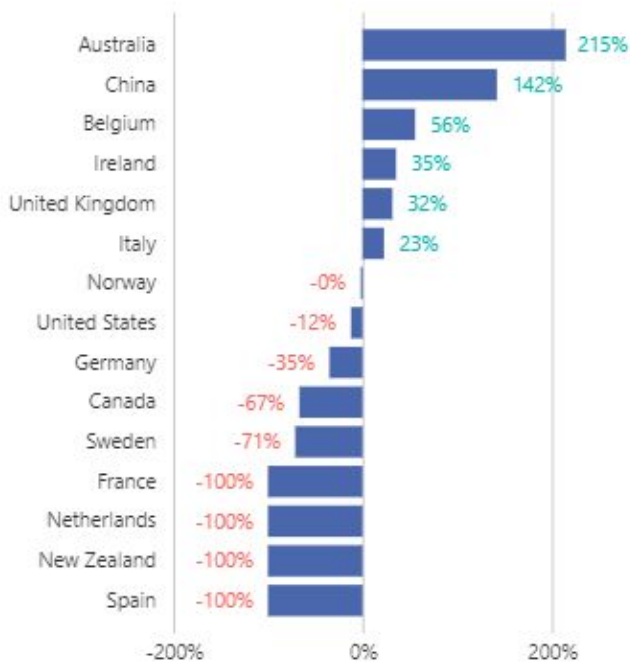
The company is interested in obtaining an overview of the transactions carried out by each country. Your task is to create a visualization that identifies the percentage of sales by country.



LEVEL 1 EXERCISE 3

Design a visual indicator in Power BI to analyze the difference in sales between the years 2022 and 2021 in each country. The company is interested in understanding how sales have varied in different countries during this period and wishes to identify any significant decreases or increases in sales.

Monthly Sales Growth vs PY

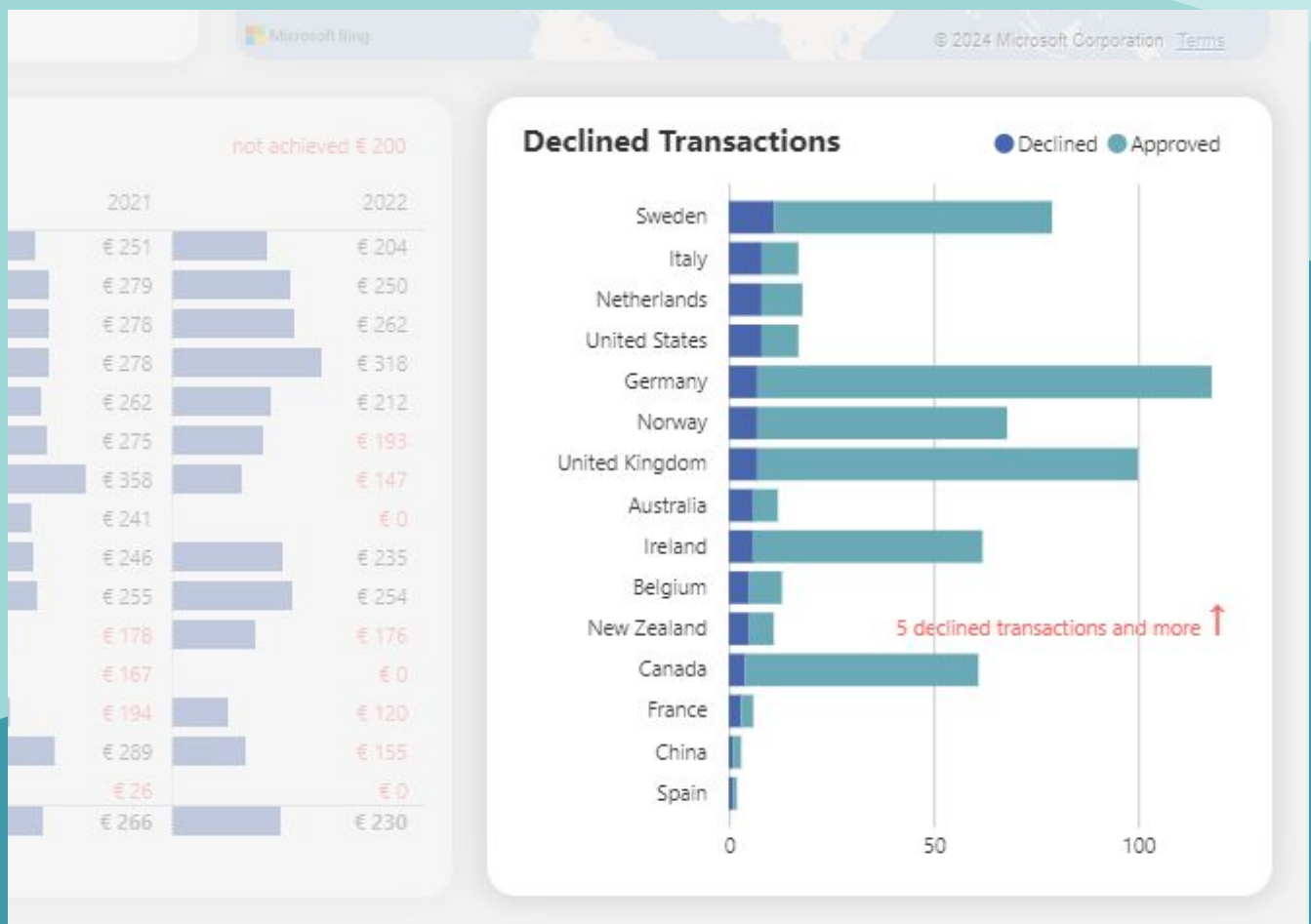


Average Ticket Sum

Country	2021
Germany	€ 251
United Kingdom	€ 279
Sweden	€ 278
Ireland	€ 278
Norway	€ 262
Canada	€ 275
United States	€ 358
Netherlands	€ 241
Italy	€ 246
Belgium	€ 255
Australia	€ 178
New Zealand	€ 167
France	€ 194
China	€ 289
Spain	€ 26
Total	€ 266

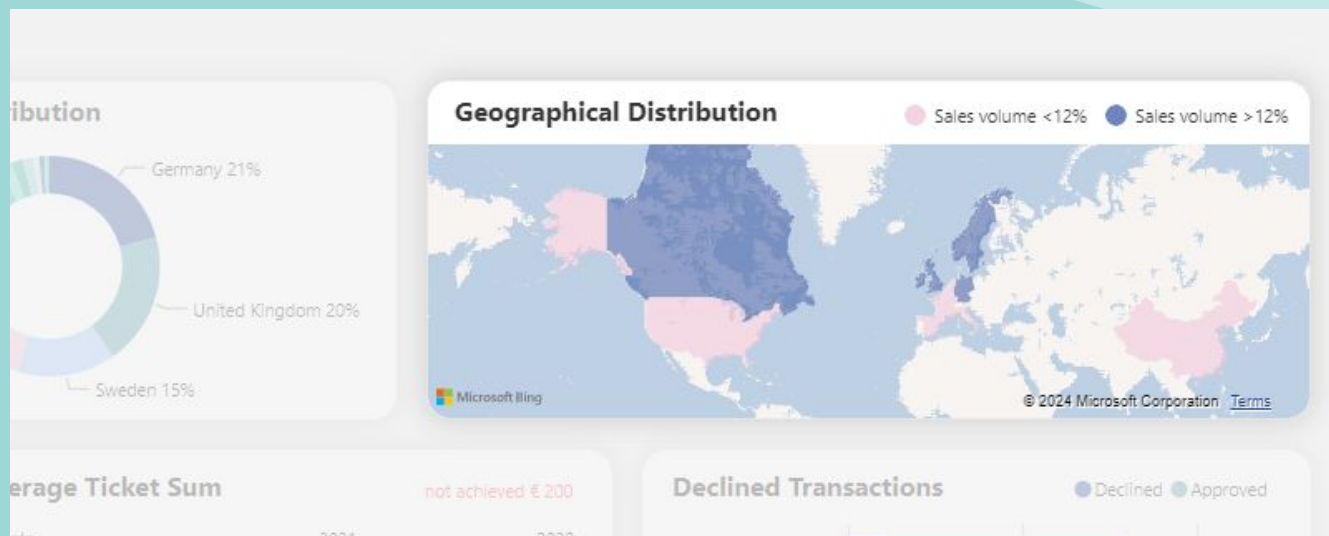
LEVEL 1 EXERCISE 4

Create a visualization in which the number of rejected transactions in each country can be counted to measure the effectiveness of the operations. Remember that the company expects to have less than 5 declined transactions per country.



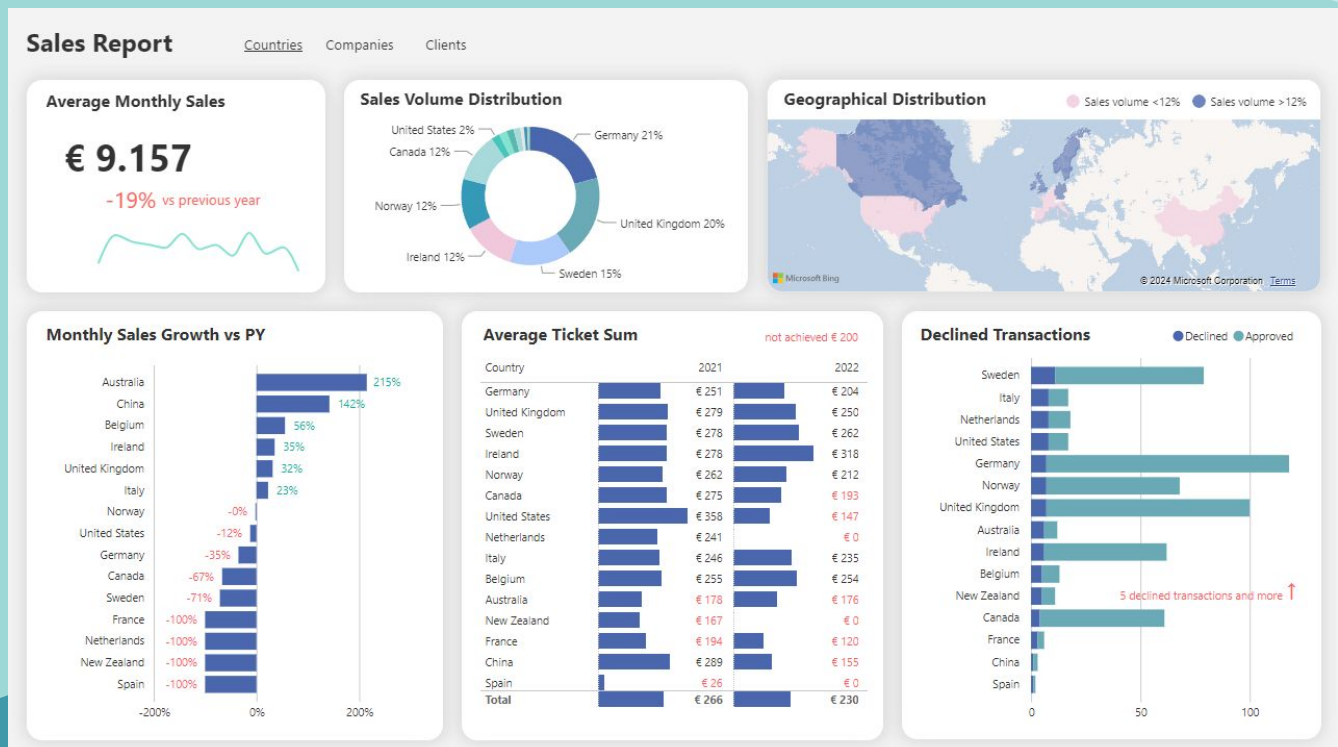
LEVEL 1 EXERCISE 5

The company seeks to understand the geographic distribution of sales to identify specific patterns and opportunities in each region. Select the best view to display this information.



LEVEL 1 EXERCISE 6

Your boss has asked you to prepare a presentation for your team detailing the information on all the graphs viewed so far. To comply with this request, you must provide an interpretation of the views obtained. The presentation can be made with general information or by selecting a particular element, such as, for example, the results of Spain.

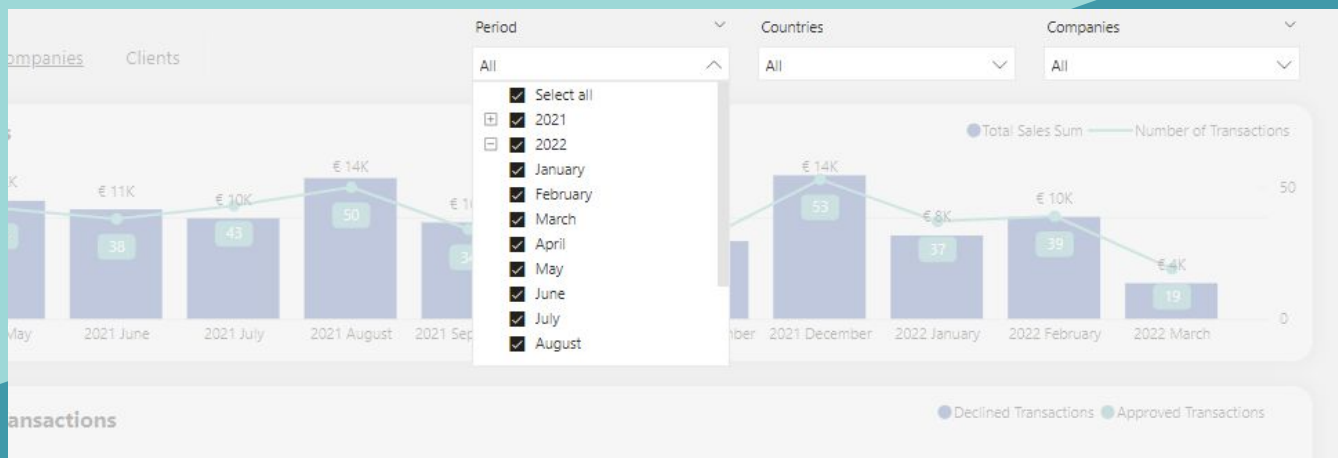


LEVEL 2 EXERCISE 1

Your task is to implement an interactive filter that allows you to select the sales for each year.

LEVEL 2 EXERCISE 2

Management is interested in further analyzing sales for the month. Therefore, you are asked to make the necessary adjustments to display the information in this way.

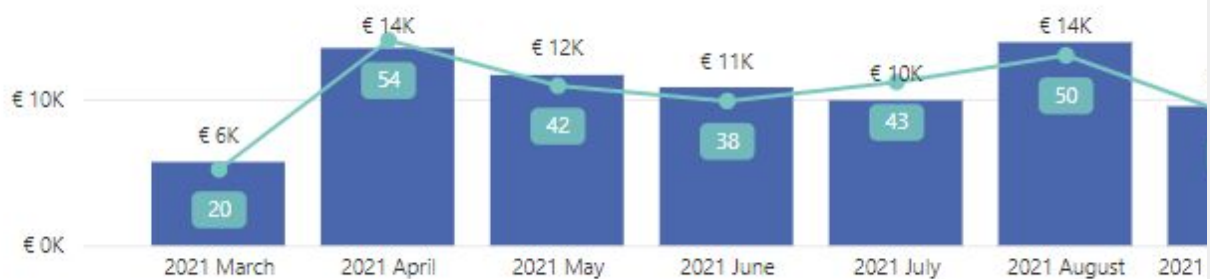


LEVEL 2 EXERCISE 3

View the total sales and the number of transactions completed. You can create two separate views if needed.



Total Sales vs Number of Transactions



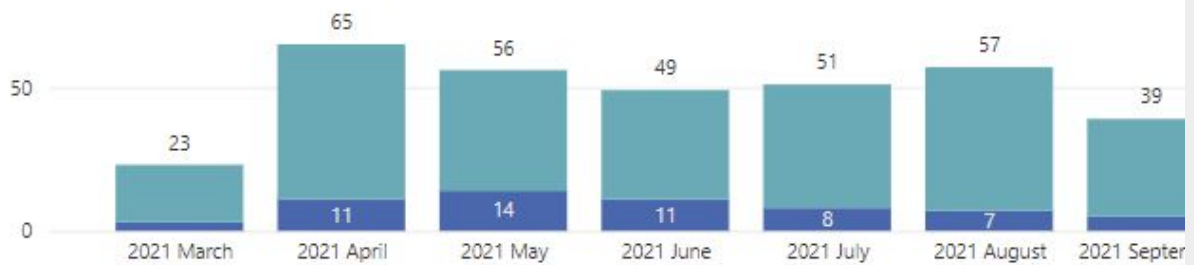
LEVEL 2 EXERCISE 4

Create a visualization that allows you to effectively and clearly observe the quantity of sales made and the quantity of rejected transactions.

Declined Transactions vs Approved Transactions



Declined Transactions vs Approved Transactions



Declined Transactions vs Approved Transactions



LEVEL 2 EXERCISE 5

Select a view that reflects the descriptive statistics of the companies that made transactions. Remember to show the total for each statistic.

Company Name	Country	Total Sales	Approved	Declined	Average Ticket	Standard Deviation	Products	Max Product Price	Max Product Name	Min Product Price	Min Product Name
Nunc Interdum Incorporated	Germany	€ 25.267	104	1	€ 243	€ 150	261	€ 195,94	Winterfell	€ 9,24	Tarly Stark
Ut Semper Foundation	Sweden	€ 16.122	58	1	€ 278	€ 139	144	€ 195,94	Winterfell	€ 9,24	Tarly Stark
Malesuada PC	Ireland	€ 14.886	51	1	€ 292	€ 138	130	€ 195,94	Winterfell	€ 9,24	Tarly Stark
Enim Condimentum Ltd	United Kingdom	€ 14.578	56	1	€ 260	€ 143	135	€ 195,94	Winterfell	€ 9,24	Tarly Stark
Lorem Eu Incorporated	Canada	€ 13.916	53	1	€ 263	€ 130	125	€ 195,94	Winterfell	€ 9,24	Tarly Stark
Arcu LLP	Norway	€ 13.763	55	1	€ 250	€ 133	137	€ 195,94	Winterfell	€ 9,24	Tarly Stark
Non Institute	United Kingdom	€ 8.911	30	0	€ 297	€ 134	72	€ 195,94	Winterfell	€ 26,51	duel tourney
Eget Ipsum Ltd	United States	€ 482	1	1	€ 482	€ 0	4	€ 169,96	riverlands north	€ 63,33	north of Casterly
Sed Id Limited	United States	€ 478	1	1	€ 478	€ 0	1	€ 63,33	north of Casterly	€ 63,33	north of Casterly
Total		€ 129.506	500	87	€ 259	€ 143	1236	€ 195,94		€ 9,24	

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LEVEL 3 EXERCISE 1

In your company, they want to deepen the analysis of the characteristics of the users who participate in the transactions, as well as the products sold. You've been asked to create relevant views to strategically improve ad campaigns and increase sales. After creating the charts, you must present the user information with ID 96 with a brief description of the data through a slide show. Make sure to optimize the readability and understanding of the visualizations through appropriate adjustments. The views you must include are:

- Personal information of users;
- Amount of transactions made and rejected. The company expects each user to have at least 10 transactions per year, and to have less than 2 declined transactions per year;
- Identification of the cheapest and most expensive product purchased by each user, together with its price;
- Geographic distribution of users;
- Average purchases made;
- The user must have the option to select if they wish to view the information of one year only.

