The project was conducted for a company whose objective was to monitor the arrivals and sales of various items in the warehouse. Each item that arrives in the warehouse is identified by a code. Each item has a supplier's predetermined expiration date and an actual expiration date (TMA).

We extracted data from the company's management system for both the arrivals and sales of various products. Through a series of calculations and analyses, we were able to provide the company with a framework that offered a comprehensive overview.



We analyzed over 5,000 items, extracting data from more than 150,000 records. In the end, the summary of some items can be seen in the image. It is possible to analyze the sales percentage and the number of repeated expirations (the higher the number, the more critical it is for the company, since if I ordered a product on September 10 with a 20-day expiration and then ordered the same product on September 20 with the same expiration, it is very likely that I would sell the 'almost' expired product).

Finally, I created a graphical interface program that allows for detailed analysis, product by product.

	ARTICOLO 1123	DATA INIZIO	DATA FINE 10/08/2024		N°GIORNI 68	N° ORDINI 8		
		03/06/2024						
DESCRIZIONE	NOME ARTICOLO	COLLI VEND	UTI	357	TMA EFFETTIVO	79	SCOSTAMENTO	
BUYER	BUYER1	COLLI ACQUIS	STATI	360	TMA STABILITO	60	TMA	19
FORNITORE	NOME FORNITORE	DIFFERENZA COLLI		3	тмс	34		
					SCADENZE RIPETUTE	2		
MEDIA COLLI ARRIVATI/ORDINI	45,0							
COLLI_VENDUTI AL GIORNO	5,3							
%VENDITA-ACQUISTO	99,17%							
MEDIA COLLI /ENDUTI/10SETTIMANE	35,7							

This program is automated; by changing the item code (in this case, 1123), all parameters are automatically updated.