Hello! Here are some of my data visualization projects that I put together at the company where I work.

It's a large company in the retail sector, with various product lines. We had a problem where, to consolidate all the necessary information for decision-making, we needed to extract information from various sources, put it in an Excel spreadsheet, and calculate various formulas, which was not practical in our daily workflow, especially for quick visualization.

So, I gained access to the company's BigQuery and combined various databases such as inventory, sales, traffic, appointments, order portfolio, product information and consolidating them through a query.

This way, instead of extracting information from multiple sources, I only needed to run the query, and within a few minutes, I had consolidated information.

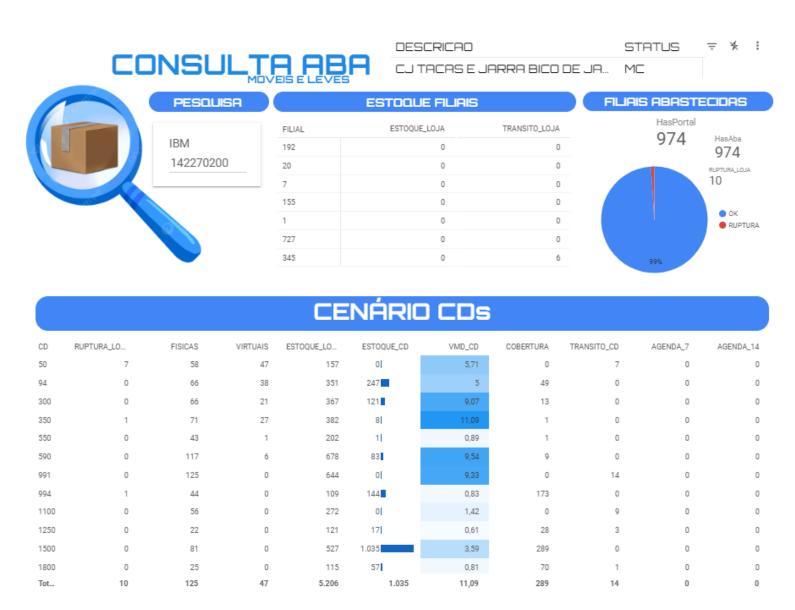
However, it was still necessary to paste the information into an Excel spreadsheet and update the dashboard data. So, I first created an automatic job using Google Colab to send this database by email to everyone on my team, so they could access the consolidated information.

Finally, for a simpler and more interactive visualization, I used Looker Studio's features to create dashboards tailored to the users' needs, and just send the links to the automatic reports to the managers and directors of the department

To preserve the company's confidential data, the data shown in the following screenshots has been multiplied by random numbers and does not reflect actual figures.

Attached are screenshots of the dashboards:

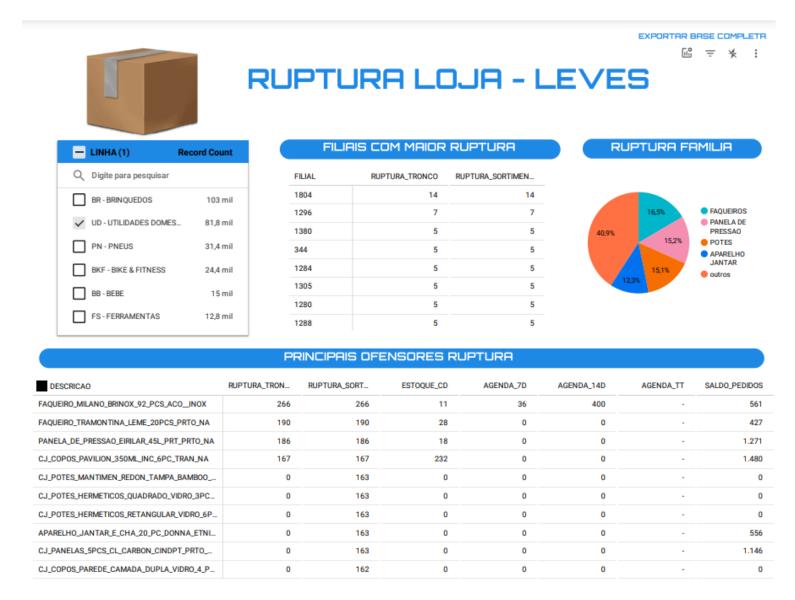
Dashboard 1: This first dashboard provides all the necessary information in the supply scenario by simply entering a product code in the filter. It includes product description and status, traffic, store inventory, distribution center inventory, the number of stores with the product, stores facing stockouts, average sales, coverage, appointments, and order portfolio.



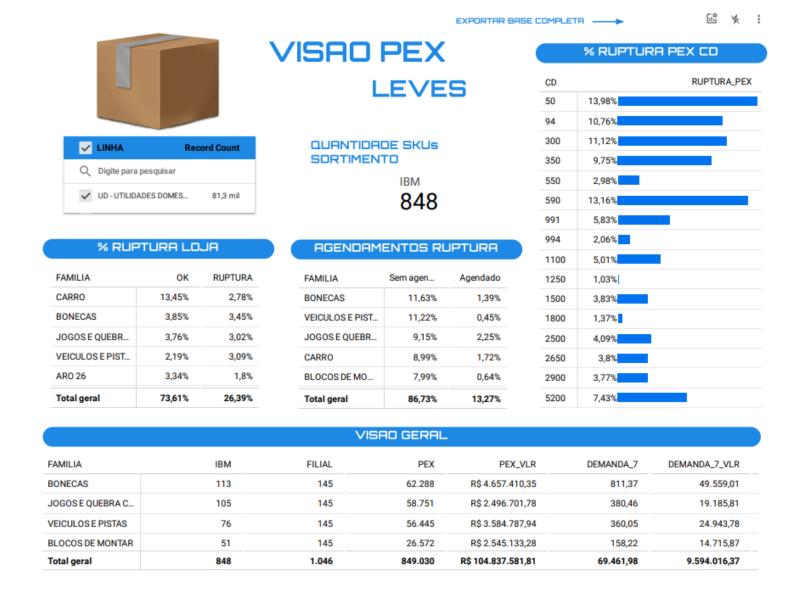
Dashboard 2: This one is quite similar to the first one but displays filtered data for all products that will be promoted in the future. These are items that require special attention.



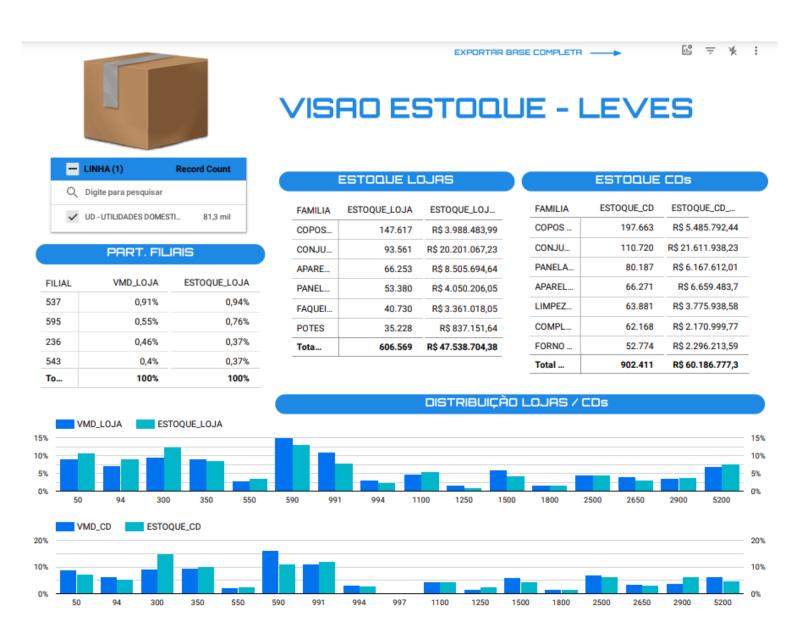
Dashboard 3: This can be filtered by product line and displays the stockout situation (items without inventory) across the company. It shows branches with more stockout items, the percentage of stockouts by category, and the main contributors to this indicator. This visualization is highly useful for taking actions to improve the indicator.



Dashboard 4: This dashboard provides a view of the PEX (Point of Exposure), which are the items that should be displayed in the sales floor. It also shows a PEX + demand view, indicating the value and quantity representation, what is available in stores, and what is needed to achieve 100% of the intended availability.



Dashboard 5: This presents an overview of the company's inventory, both in stores and distribution centers, and the distribution of inventory according to the demand from each location.



Dashboard 6: Finally, the last dashboard provides a performance view of items present in stores. It shows the sales history for each item in recent months and the variation for each month. These insights help us decide which items should remain in stores or be added.

PERFORMANCE SORTIMENTO LOJAS



— LINHA (1)	FILIAL
Q Digite para pesquisar	
UD - UTILIDADES DOMESTICAS	54,6 mi
✓ PN - PNEUS	16,2 mi
FS - FERRAMENTAS	13,2 mi

✓ FILIAL	FILIAL
Q Digite para pesquisar	
✓ 1199	57,6 mil
√ 1508	57,3 mil
✓ 1545	57,2 mil

NIVEL PRODUTO										
									- ⊁	-
IBM	DESCRICAO	FILIAL	VAR_M_1	VAR_M_2	VAR_M_3	VENDA_VLR_M_0	VENDA_VLR_M_1	VENDA_VLR_M_2	VENDA_VLR_M_3	V
235820500	PNEU 175/7	1.011	-11,82%	24,6%	-59,97%	R\$ 292.881,14	R\$ 6.604.260,95	R\$ 7.489.325,52	R\$ 6.010.554,94	R\$
218803500	PNEU 175/6	923	-60,06%	-33,89%	-92,23%	R\$ 14.247,08	R\$ 325.807,51	R\$ 815.788,22	R\$ 1.233.914,56	R\$
235820600	PNEU 175/7	883	-11,57%	9,65%	-87,2%	R\$ 69.767,45	R\$ 2.707.209,2	R\$ 3.061.342,68	R\$ 2.791.981,03	Rŝ
237123500	PNEU 175/6	754	-30,07%	173,23%	796,88%	R\$ 134.821,77	R\$ 2.183.287,99	R\$ 3.121.915,97	R\$ 1.142.599,57	
233913100	PNEU 175/7	715	69,38%	-89,83%	1.011,56%	R\$ 2.104.959,3	R\$ 14.328.425,71	R\$ 8.459.538,57	R\$ 83.215.151,95	R
236149700	PNEU XBRI	599	6.120,34%	249,45%	-97,51%	R\$ 67.795,23	R\$ 5.794.995,61	R\$ 93.161,98	R\$ 26.659,35	R
236188900	PNEU 185/6	585	-19,79%	61,76%	0,51%	R\$ 21.727,04	R\$ 712.135,56	R\$ 887.872,21	R\$ 548.881,55	
234480400	PNEU 175/7	571	9,67%	-27,09%	2.124,93%	R\$ 29.182,63	R\$ 1.840.367,02	R\$ 1.678.086,64	R\$ 2.301.574,63	
234341100	PNEU 175/7	472	4.170,21%	30,43%	-82,2%	R\$ 42.626,38	R\$ 1.308.898,36	R\$ 30.651,87	R\$ 23.500,74	
235316200	PNEU CARR	462	-48,72%	-8,88%	2,25%	R\$ 28.517,62	R\$ 457.428,39	R\$ 892.027,53	R\$ 979.012,21	
236569500	PNEU CARR	458	-13,68%	35,2%	-30,2%	R\$ 24.663,96	R\$ 432.378,07	R\$ 500.925,77	R\$ 370.497,36	
222360000	PNEU 175/6	438	34,97%	-96,37%	1.300,31%	R\$ 2.504,82	R\$ 72.726,11	R\$ 53.883,49	R\$ 1.482.947,92	
235315900	PNEU CARR	419	3,56%	-17,09%	-48,41%	R\$ 0	R\$ 46.527,23	R\$ 44.929,85	R\$ 54.191,85	
235315800	PNEU CARR	365	-38,03%	-66,35%	-15,05%	R\$ 0	R\$ 44.623,43	R\$ 72.013,73	R\$ 214.003,21	
230435700	PNEU CARR	213	11.769,66%	-49,77%	-25,69%	R\$ 6.677,3	R\$ 942.849,79	R\$ 7.943,36	R\$ 15.814,37	
230435000	PNEU CARR	167	-46.85%	33.63%	-69.71%	R\$ 239.97	R\$ 8.530.67	R\$ 16.049.42	R\$ 12.009.93	
Total geral		1.036	38,3%	-72,91%	56,26%	R\$ 2.852.188,81	R\$ 37.936.150,55	R\$ 27.431.184,02	R\$	R\$