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:

- 1 Product consult.
- 2 Promotions report.
- 3 Stockout report.
- 4 PEX report.
- 5 Stock report.
- 6 Branches assortment report.

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.



31,4 mil

24,4 mil

12,8 mil

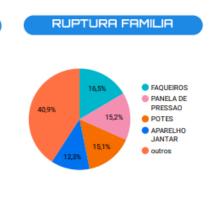
PN - PNEUS

BB - BEBE

BKF - BIKE & FITNESS

FS-FERRAMENTAS

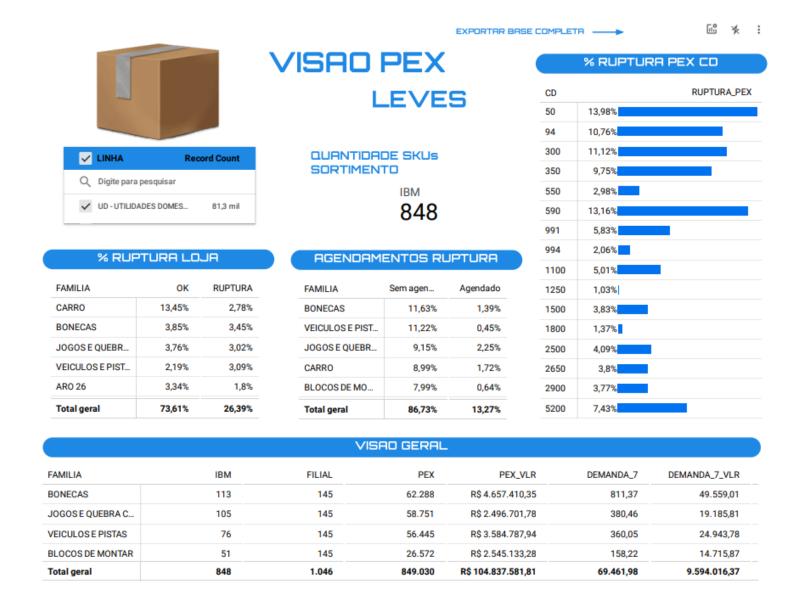
FILI	AIS COM MAIOR	RUPTURA
FILIAL	RUPTURA_TRONCO	RUPTURA_SORTIMEN
1804	14	14
1296	7	7
1380	5	5
344	5	5
1284	5	5
1305	5	5
1280	5	5
1288	5	5



EXPORTAR BASE COMPLETA

	PRINCIPAIS OFENSORES RUPTURA						
DESCRICAO	RUPTURA_TRON	RUPTURA_SORT	ESTOQUE_CD	AGENDA_7D	AGENDA_14D	AGENDA_TT	SALDO_PEDIDO
FAQUEIRO_MILANO_BRINOX_92_PCS_ACOINOX	266	266	11	36	400		56
FAQUEIRO_TRAMONTINA_LEME_20PCS_PRTO_NA	190	190	28	0	0		42
PANELA_DE_PRESSAO_EIRILAR_45L_PRT_PRTO_NA	186	186	18	0	0		1.2
CJ_COPOS_PAVILION_350ML_INC_6PC_TRAN_NA	167	167	232	0	0		1.48
CJ_POTES_MANTIMEN_REDON_TAMPA_BAMBOO	0	163	0	0	0		
CJ_POTES_HERMETICOS_QUADRADO_VIDRO_3PC	0	163	0	0	0		
CJ_POTES_HERMETICOS_RETANGULAR_VIDRO_6P	0	163	0	0	0		
APARELHO_JANTAR_E_CHA_20_PC_DONNA_ETNI	0	163	0	0	0		5
J_PANELAS_5PCS_CL_CARBON_CINDPT_PRTO	0	163	0	0	0		1.1
CJ_COPOS_PAREDE_CAMADA_DUPLA_VIDRO_4_P	0	162	0	0	0		

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
ES-EERRAMENTAS	13.2 mi

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

	NIVEL PRODUTO									
-	÷ ★			_		1414				
VE	VENDA_VLR_M_3	VENDA_VLR_M_2	VENDA_VLR_M_1	VENDA_VLR_M_0	VAR_M_3	VAR_M_2	VAR_M_1	FILIAL	DESCRICAO	IBM
R\$	R\$ 6.010.554,94	R\$ 7.489.325,52	R\$ 6.604.260,95	R\$ 292.881,14	-59,97%	24,6%	-11,82%	1.011	PNEU 175/7	235820500
R\$	R\$ 1.233.914,56	R\$ 815.788,22	R\$ 325.807,51	R\$ 14.247,08	-92,23%	-33,89%	-60,06%	923	PNEU 175/6	218803500
R\$	R\$ 2.791.981,03	R\$ 3.061.342,68	R\$ 2.707.209,2	R\$ 69.767,45	-87,2%	9,65%	-11,57%	883	PNEU 175/7	235820600
Т	R\$ 1.142.599,57	R\$ 3.121.915,97	R\$ 2.183.287,99	R\$ 134.821,77	796,88%	173,23%	-30,07%	754	PNEU 175/6	237123500
R	R\$ 83.215.151,95	R\$ 8.459.538,57	R\$ 14.328.425,71	R\$ 2.104.959,3	1.011,56%	-89,83%	69,38%	715	PNEU 175/7	233913100
R	R\$ 26.659,35	R\$ 93.161,98	R\$ 5.794.995,61	R\$ 67.795,23	-97,51%	249,45%	6.120,34%	599	PNEU XBRI	236149700
	R\$ 548.881,55	R\$ 887.872,21	R\$ 712.135,56	R\$ 21.727,04	0,51%	61,76%	-19,79%	585	PNEU 185/6	236188900
	R\$ 2.301.574,63	R\$ 1.678.086,64	R\$ 1.840.367,02	R\$ 29.182,63	2.124,93%	-27,09%	9,67%	571	PNEU 175/7	234480400
	R\$ 23.500,74	R\$ 30.651,87	R\$ 1.308.898,36	R\$ 42.626,38	-82,2%	30,43%	4.170,21%	472	PNEU 175/7	234341100
	R\$ 979.012,21	R\$ 892.027,53	R\$ 457.428,39	R\$ 28.517,62	2,25%	-8,88%	-48,72%	462	PNEU CARR	235316200
	R\$ 370.497,36	R\$ 500.925,77	R\$ 432.378,07	R\$ 24.663,96	-30,2%	35,2%	-13,68%	458	PNEU CARR	236569500
	R\$ 1.482.947,92	R\$ 53.883,49	R\$ 72.726,11	R\$ 2.504,82	1.300,31%	-96,37%	34,97%	438	PNEU 175/6	222360000
	R\$ 54.191,85	R\$ 44.929,85	R\$ 46.527,23	R\$ 0	-48,41%	-17,09%	3,56%	419	PNEU CARR	235315900
	R\$ 214.003,21	R\$ 72.013,73	R\$ 44.623,43	R\$ 0	-15,05%	-66,35%	-38,03%	365	PNEU CARR	235315800
	R\$ 15.814,37	R\$ 7.943,36	R\$ 942.849,79	R\$ 6.677,3	-25,69%	-49,77%	11.769,66%	213	PNEU CARR	230435700
	R\$ 12.009.93	R\$ 16.049.42	R\$ 8.530.67	R\$ 239.97	-69.71%	33.63%	-46.85%	167	PNEU CARR	230435000
R\$	R\$	R\$ 27.431.184,02	R\$ 37.936.150,55	R\$ 2.852.188,81	56,26%	-72,91%	38,3%	1.036		Total geral