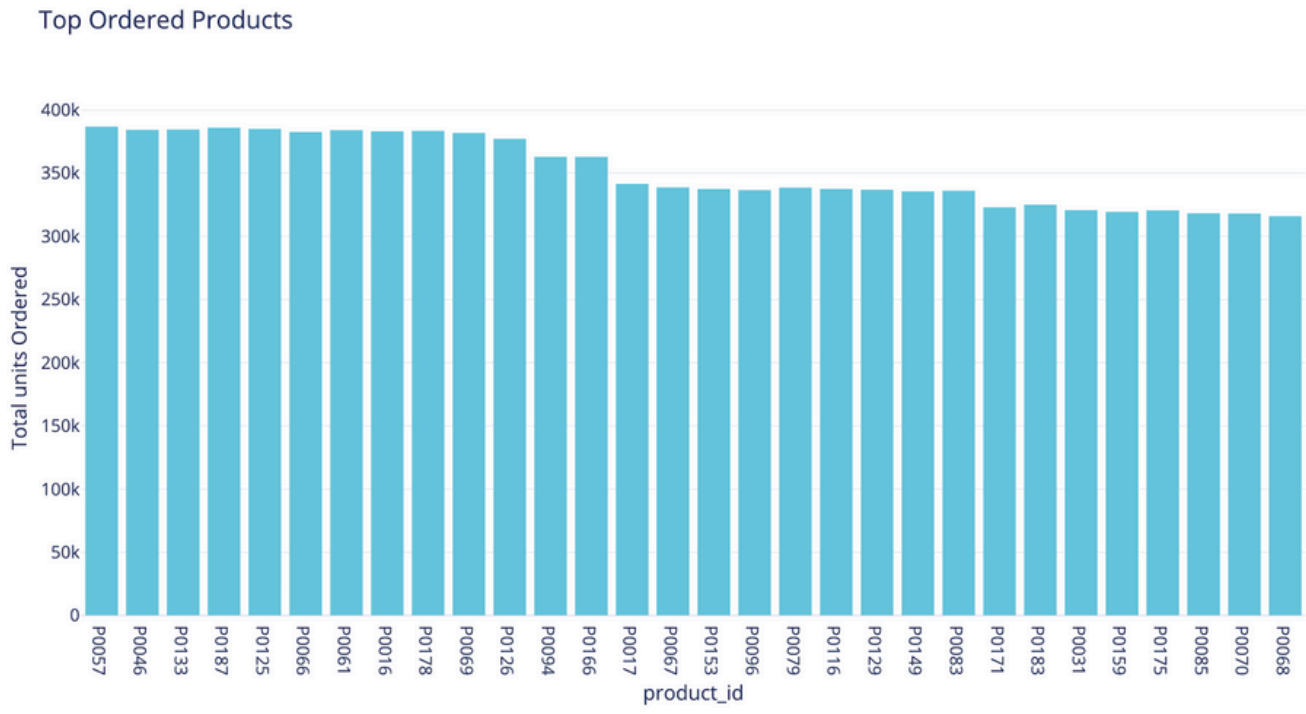
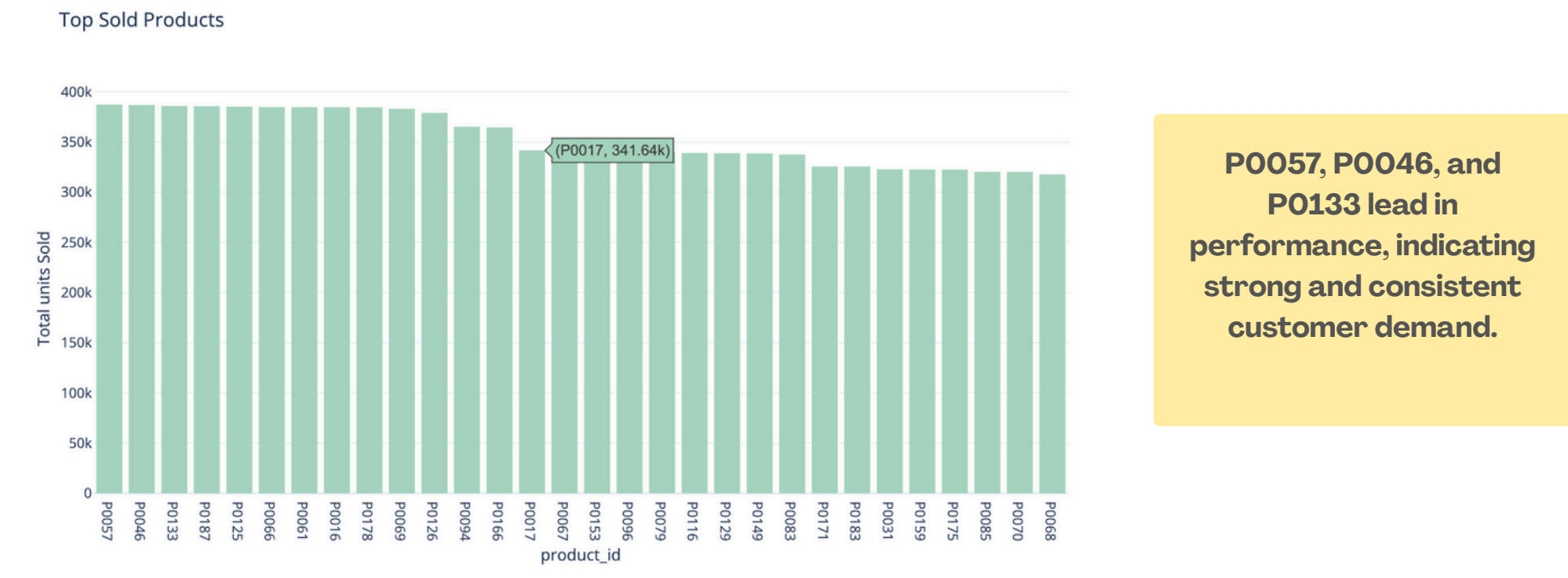


Top Selling Product



Products like P0057, P0046, and P0133 lead the demand, indicating consistently high customer preference across the board.

Slow moving product by store

store_number	product_id	inventory_turnover_r atio	day_of_inventory
2001	P0031	96.44	3.8
1004	P0068	97.51	3.7
4001	P0187	101.15	3.6
3002	P0067	100.45	3.6
2002	P0116	102.67	3.6
1004	P0183	101.07	3.6
2002	P0126	102.72	3.6
1004	P0067	104.36	3.5
1003	P0175	103.97	3.5
3001	P0031	104.27	3.5

Fast moving product by store

store_number	product_id	inventory_turnover_r atio	day_of_inventory
3004	P0067	145.65	2.5
5001	P0125	143.71	2.5
3001	P0166	144.4	2.5
2001	P0178	143.57	2.5
1003	P0068	143.38	2.5
4003	P0066	144.26	2.5
1001	P0016	138.82	2.6
4001	P0125	138.32	2.6
2001	P0057	138.85	2.6
2002	P0066	139.07	2.6

vs

Average inventory turnover ratio of slow-moving product: 101 days
Average inventory turnover ratio of fast moving product: 142 days
AVGERAGE inventory turnover ratio 121 days

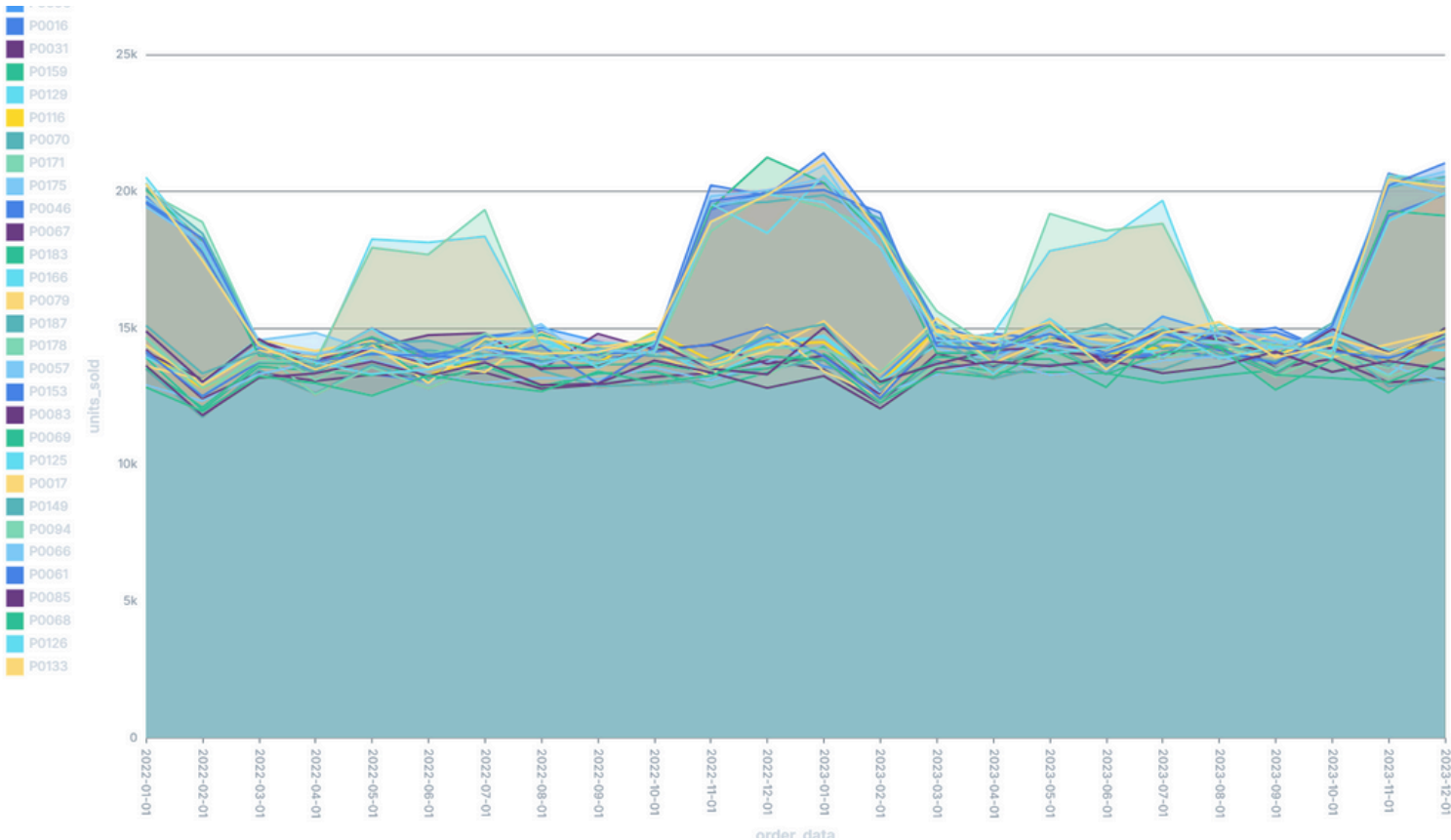
low_inventory_detection

product_id	store_number	stock_level_calculation
P0166	2003	24
P0067	3003	31
P0016	3001	32
P0070	5004	32
P0083	2001	41
P0031	5002	42
P0083	2004	43
P0068	3001	45
P0067	1001	51
P0085	2002	51

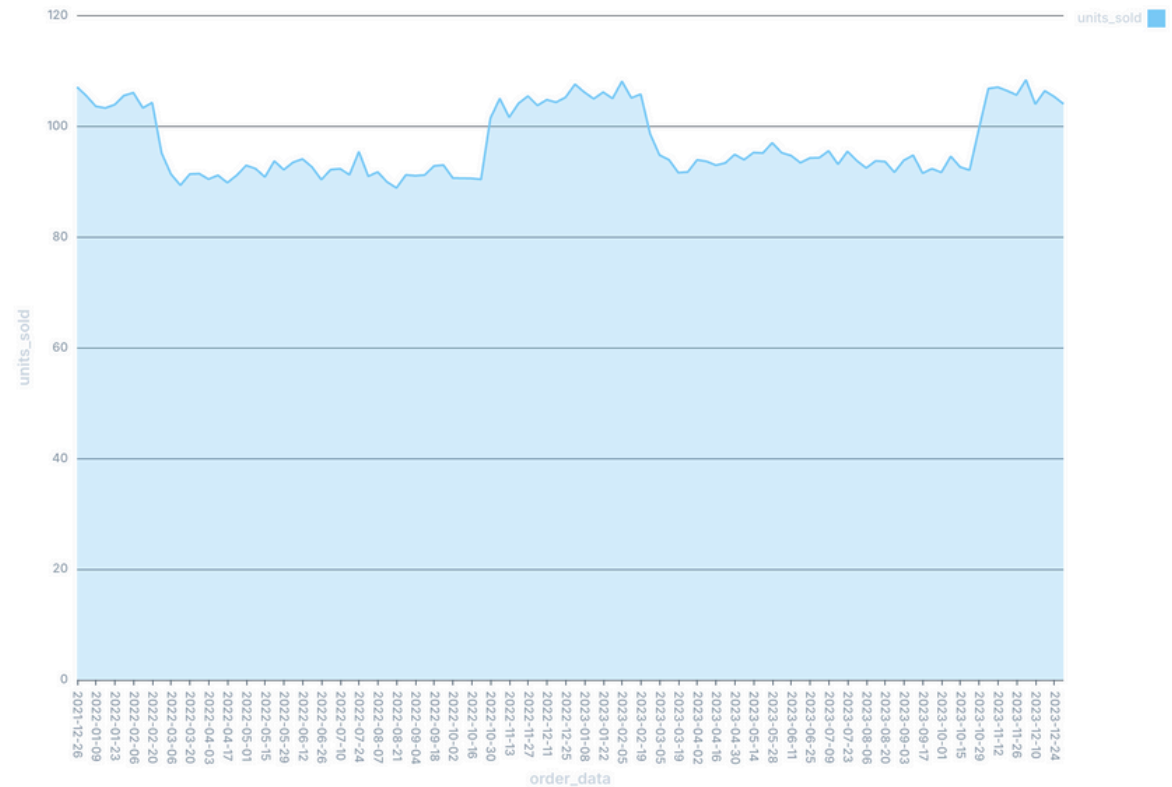
The product_id = *P0166, P0067, P0016, P0070* needs immediate order for their respective mentioned store

A significant increase in sales is observed in the clothing category during the winter season.

Monthly Sales



Weekly Sales



Age of Inventory

product_id	store_number	inventory_age_days
P0096	1001	1.46
P0016	1002	1.46
P0031	1001	1.58
P0159	1001	1.56
P0129	1004	1.53
P0116	1002	1.53
P0070	1003	1.63
P0171	1002	1.53
P0175	1002	1.58
P0046	1004	1.45

Average inventory age : 1.5

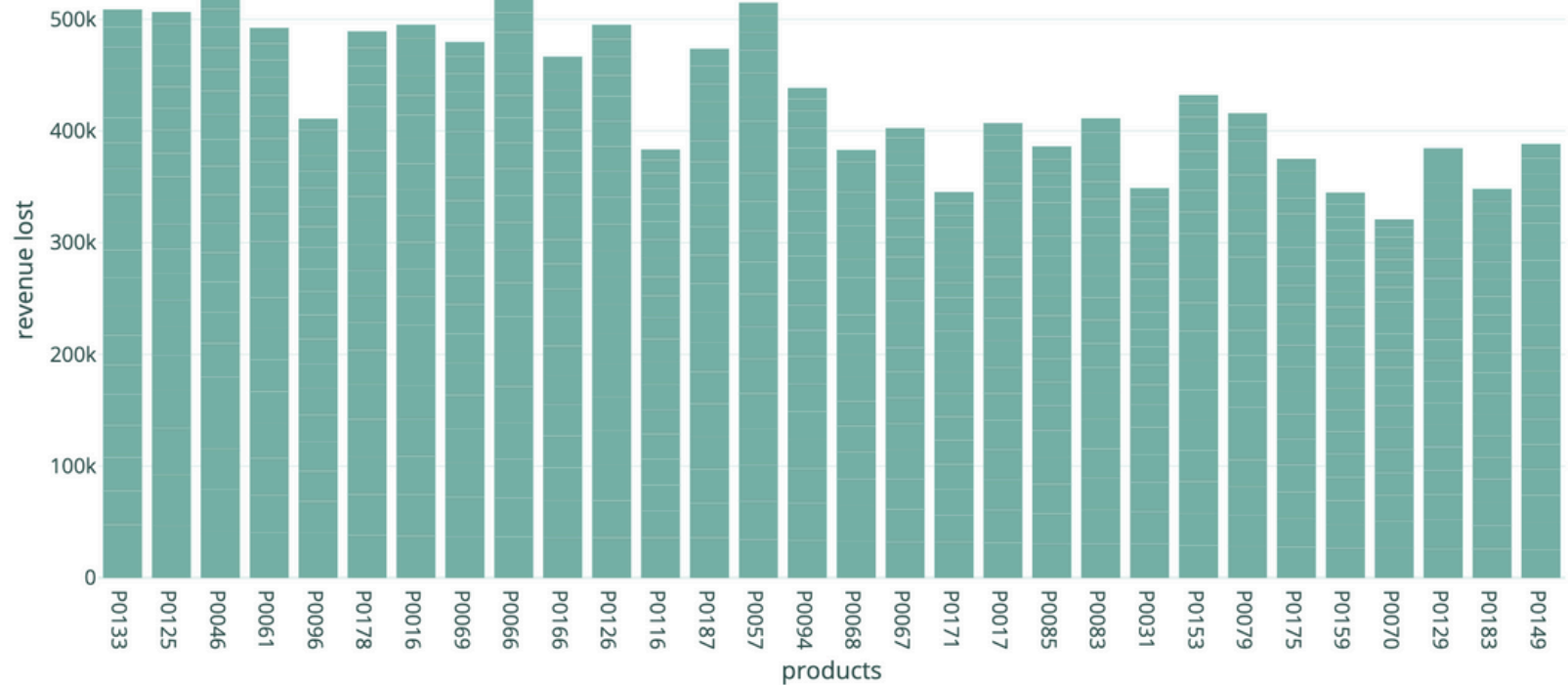
Average inventory of Top 10 product (by store number) : 1.622

Average inventory of bottom 10 product (by store number): 1.417

Reorder Point and Safety Stock

product_id	store_number	safety_stock	reorder_point
P0046	4001	146.27	620.75
P0016	5003	143.85	615.63
P0069	5002	151.72	609.27
P0069	2003	141.54	606.64
P0187	2002	150.9	599.4
P0066	5004	133.84	590.27
P0061	2001	147.13	589.66
P0094	3004	127.4	589
P0187	4002	141.38	584.55
P0046	2004	129.02	576.37

Lost Revenue

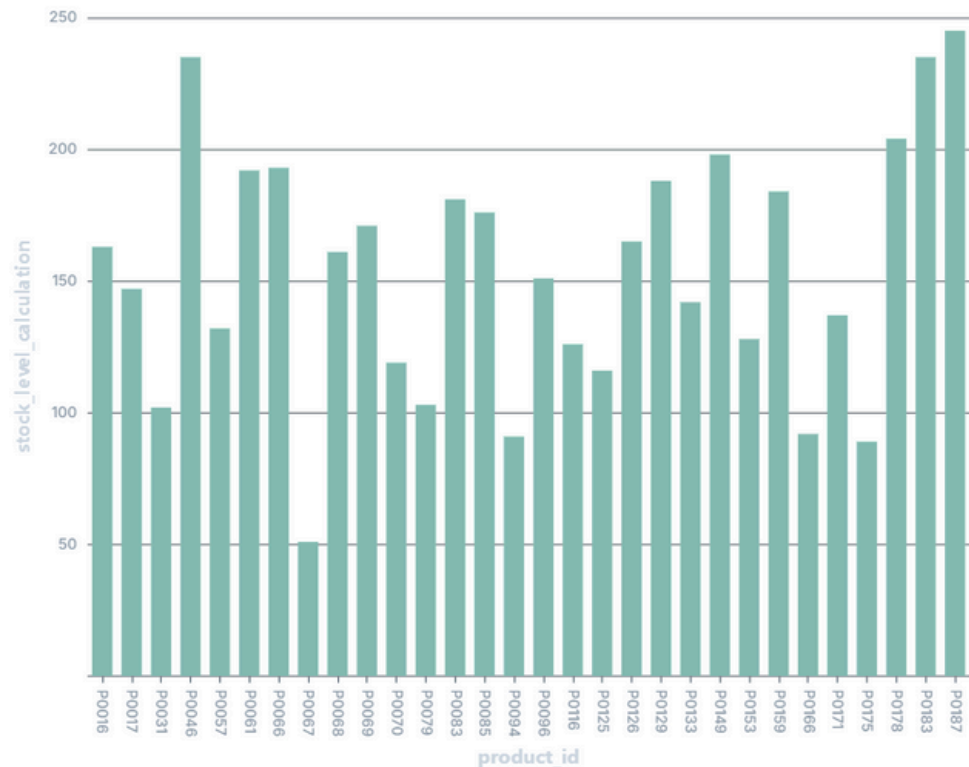


Inventory Gap

order_data	store_id	region	product_id	inventory_level	expected_inventory	inventory_gap
04-01-2022	S001	East	P0016	93	187	-94
08-01-2022	S001	East	P0016	180	76	104
11-01-2022	S001	East	P0016	221	191	30
13-01-2022	S001	East	P0016	126	210	-84
16-01-2022	S001	East	P0016	132	110	22
17-01-2022	S001	East	P0016	290	132	158
19-01-2022	S001	East	P0016	259	303	-44
20-01-2022	S001	East	P0016	167	288	-121
21-01-2022	S001	East	P0016	199	188	11
23-01-2022	S001	East	P0016	193	183	10

A significant discrepancy in inventory calculations indicates **potential supplier inconsistencies**, which may be due to delayed, partial, or missed deliveries.

Stock Level calculation:



"The graph displays the stock level calculation for January 1, 2024, for store ID 'S001' located in the **West** region."