



Merchant 100552's Data Analysis

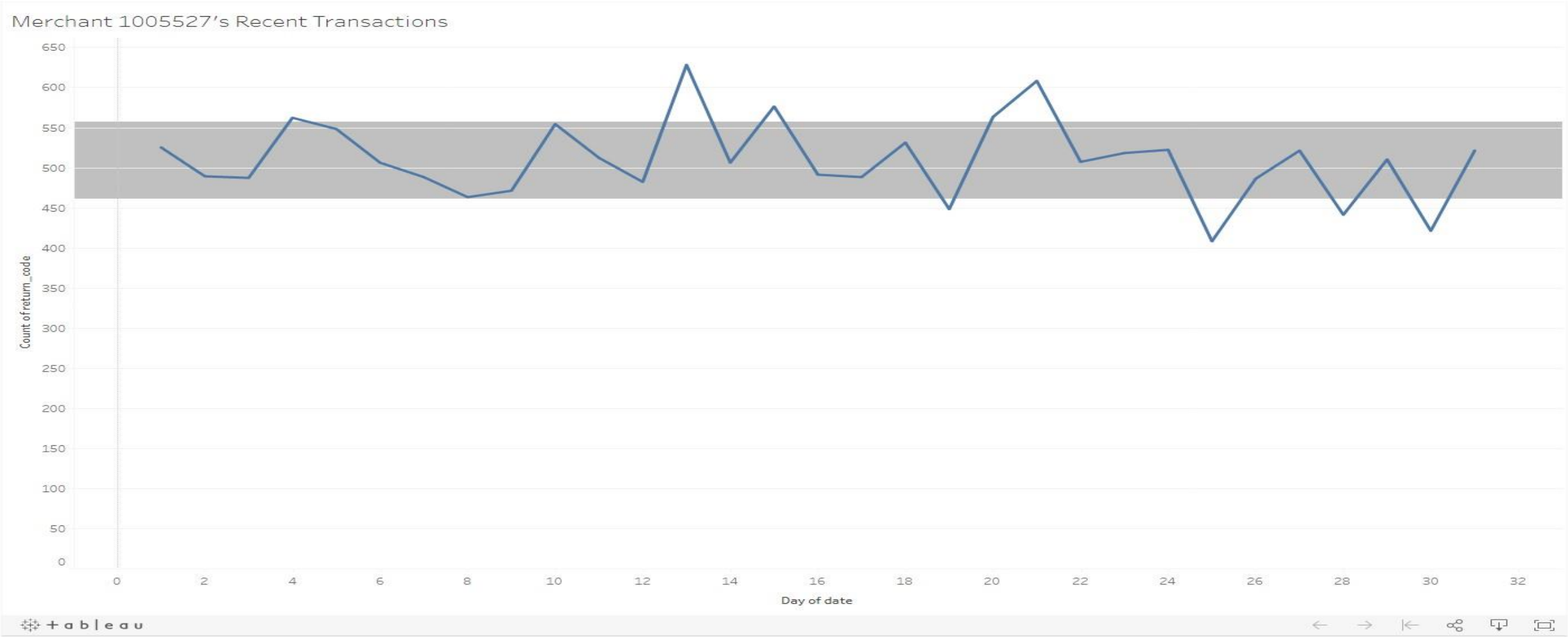
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Introduction

Merchant 1005527, has contacted us with concerns that their most recent sets of transactions have been off. With the provided data we will investigate these claims.

Note: All graphs can be found at the following Tableau link: [Merchant's Transactions](#)

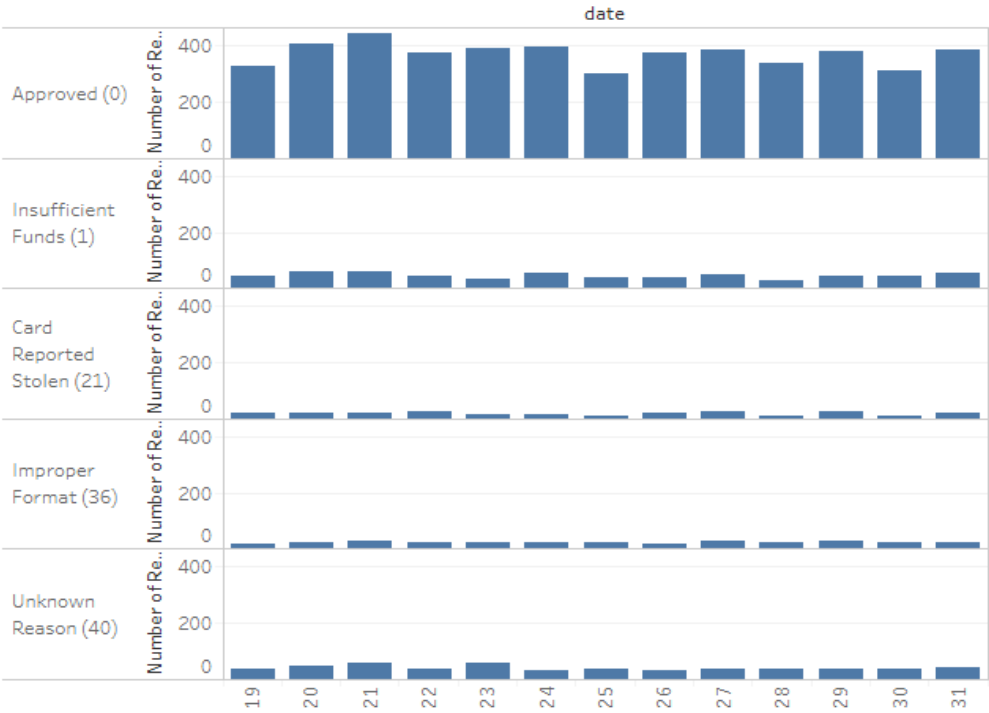
First, we investigated their sales over the latest month to see if there were any trends or patterns available. We noticed some outliers in total transactions on various days and decided to get the standard deviation of the data before we went any further. With that, we were able to confirm where the discrepancies were and investigate them further.



[Merchant's Recent Transactions](#)

From there we did a crosstabulation that investigated each type of transaction on the most recent days. The days that were investigated further were March 19th – March 31st. From that we saw that on most days, where there were an unusual number of transactions, it matched on most of the types. However, while this was an unusual pattern, a firm conclusion cannot be made from the data given.

Detailed look at March 19th - March 31st



Detailed Look at March 19th - 31st (crosstab)

	date												
return_code	19	20	21	22	23	24	25	26	27	28	29	30	31
Approved (0)	329	408	442	377	390	397	302	375	386	340	383	313	385
Insufficient..	45	60	59	43	30	56	38	39	49	27	43	41	51
Card Repor..	21	22	21	25	17	15	12	23	24	12	24	12	19
Improper F..	16	23	29	24	22	21	20	17	26	24	25	19	23
Unknown R..	37	50	57	38	59	33	36	32	36	38	35	36	43
Grand Total	448	563	608	507	518	522	408	486	521	441	510	421	521

Conclusion

While there is evidence of outliers in the data, we are unable to pinpoint the cause or correlation that explains why. The unusual days could be due to sales, inclement weather or other events. More data and information would be needed to investigate them further.