



SMU

Data Science Bootcamp

STOCK DATA ANALYSIS using VBA Code

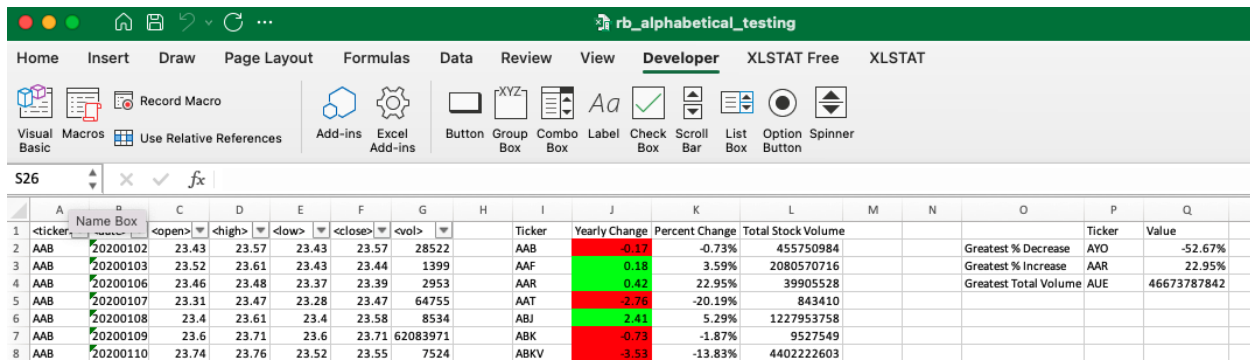
Raymond Bell

October 9, 2022

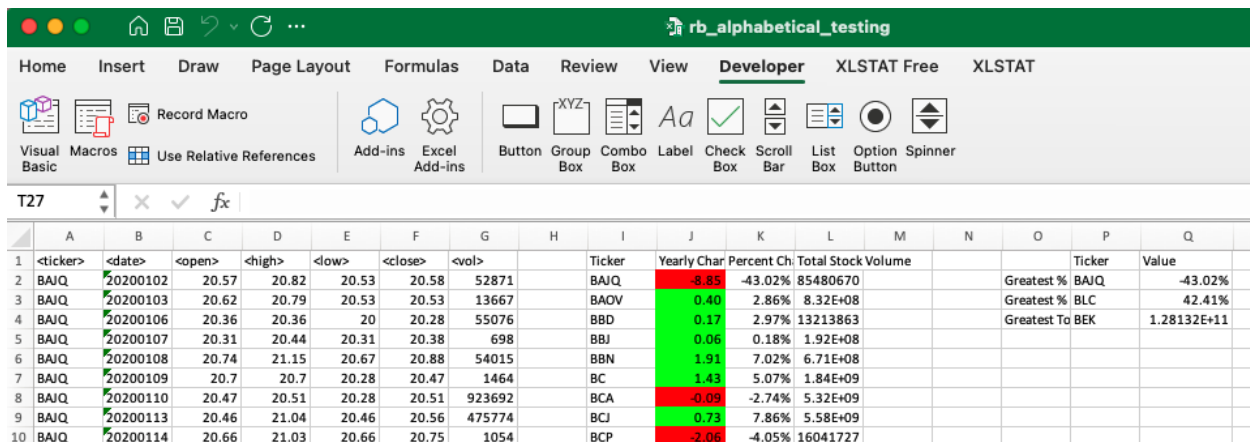
Stock Analysis Summary

This project's scope demonstrates how VBA script can be used to analyze stock performance and ranking utilizing large data sets. It does so by executing loops through multiple stock items over multiple years. The output includes each stock's date, ticker symbol, performance highs, and lows. Additionally, the opening and closing prices and the stock volume are delineated in a way that enables the user to evaluate yearly and percent change. This functionality allows the evaluator to capture internal performance fluctuation and draw comparisons between other stock items.

VBA exploits several excel features, such as conditional formatting, pivot tables, charts, and graphs, for better data visualization and storytelling.



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Yearly Change	Percent Change	Total Stock Volume				Ticker	Value
2	AAB	20200102	23.43	23.57	23.43	23.57	28522		AAB	-0.17	-0.73%	455750984			Greatest % Decrease	AYO	-52.67%
3	AAB	20200103	23.52	23.61	23.43	23.44	1399		AAF	0.18	3.59%	2080570716			Greatest % Increase	AAR	22.95%
4	AAB	20200106	23.46	23.48	23.37	23.39	2953		AAR	0.42	22.95%	39905528			Greatest Total Volume	AUE	46673787842
5	AAB	20200107	23.31	23.47	23.28	23.47	64755		AAT	-2.76	-20.19%	843410					
6	AAB	20200108	23.4	23.61	23.4	23.58	8534		ABJ	2.41	5.29%	1227953758					
7	AAB	20200109	23.6	23.71	23.6	23.71	62083971		ABK	-0.73	-1.87%	9527549					
8	AAB	20200110	23.74	23.76	23.52	23.55	7524		ABKV	-3.53	-13.83%	4402222603					



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Yearly Char	Percent Ch	Total Stock Volume				Ticker	Value
2	BAIQ	20200102	20.57	20.82	20.53	20.58	52871		BAIQ	-8.85	-43.02%	85480670			Greatest %	BAIQ	-43.02%
3	BAIQ	20200103	20.62	20.79	20.53	20.53	13667		BAOV	0.40	2.86%	8.32E+08			Greatest %	BLC	42.41%
4	BAIQ	20200106	20.36	20.36	20	20.28	55076		BBD	0.17	2.97%	13213863			Greatest To	BEK	1.28132E+11
5	BAIQ	20200107	20.31	20.44	20.31	20.38	698		BBJ	0.06	0.18%	1.92E+08					
6	BAIQ	20200108	20.74	21.15	20.67	20.88	54015		BBN	1.91	7.02%	6.71E+08					
7	BAIQ	20200109	20.7	20.7	20.28	20.47	1464		BC	1.43	5.07%	1.84E+09					
8	BAIQ	20200110	20.47	20.51	20.28	20.51	923692		BCA	-0.09	-2.74%	5.32E+09					
9	BAIQ	20200113	20.46	21.04	20.46	20.56	475774		BCJ	0.73	7.86%	5.58E+09					
10	BAIQ	20200114	20.66	21.03	20.66	20.75	1054		BCP	-2.06	-4.05%	16041727					

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