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 README.md

Unit 2 | Assignment - The VBA of Wall Street

Background

You are well on your way to becoming a programmer and Excel master! In this homework assignment you will use VBA scripting to analyze real stock market data. Depending on your comfort level with VBA, choose your assignment from Easy, Moderate, or Hard below.

Files

- [Test Data](#) - Use this while developing your scripts.
- [Stock Data](#) - Run your scripts on this data to generate the final homework report.

Stock market analyst



Easy

- Create a script that will loop through each year of stock data and grab the total amount of volume each stock had over the year.
- You will also need to display the ticker symbol to coincide with the total volume.

- Your result should look as follows.

A	B	C	D	E	F	G	H	I	J
<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Total Stock Volume
A	20120102	34.93	0.88765424	34.93	34.93	0		A	814896200
A	20120103	35.83	0.62434596	35.74	36.48	2973000		AA	5288484400
A	20120104	36.15	0.64311528	35.59	36.19	3327400		AAN	122764100
A	20120105	35.88	1.49957681	35.72	37	4894500		AAP	281621700
A	20120106	37.09	0.46588463	36.81	37.4	3370000		AAT	37930400
A	20120109	37.62	0.12353847	37.47	38.38	3168400		AAV	76860100
A	20120110	38.82	0.42161527	38.61	39.1	3189900		AB	85613400
A	20120111	38.88	0.25519228	38.53	38.92	2812900		ABB	646919900
A	20120112	39.14	0.59396154	38.36	39.52	2842200		ABC	649534800
A	20120113	38.93	0.82049984	38.5	39.06	3618200		ABG	82198400
A	20120116	39.06	0.42915398	39.06	39.06	0		ABM	83157100
A	20120117	39.76	0.15465386	39.7	39.99	4157900		ABR	26110000
A	20120118	39.92	0.73669219	39.85	41.27	3170700		ABT	1722456500
A	20120119	41.37	1.00069213	41.11	41.85	3091700		ABX	2023750900
A	20120120	41.9	0.66003835	40.68	41	3906400		ACC	205260300

Moderate

- Create a script that will loop through all the stocks and take the following info.
 - Yearly change from what the stock opened the year at to what the closing price was.
 - The percent change from the what it opened the year at to what it closed.
 - The total Volume of the stock
 - Ticker symbol
- You should also have conditional formatting that will highlight positive change in green and negative change in red.
- The result should look as follows.

A	B	C	D	E	F	G	H	I	J	K	L	M
<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Yearly Change	Percent Change	Total Stock Volume	
A	20120102	34.93	0.88765424	34.93	34.93	0		A	6.010000229	17.21%	818263700	
A	20120103	35.83	0.62434596	35.74	36.48	2973000		AA	0.090000004	0.35%	5307828600	
A	20120104	36.15	0.64311528	35.59	36.19	3327400		AAN	1.600000024	6%	123054100	
A	20120105	35.88	1.49957681	35.72	37	4894500		AAP	2.720000029	3.91%	282077000	
A	20120106	37.09	0.46588463	36.81	37.4	3370000		AAT	7.420000076	36.18%	38010800	
A	20120109	37.62	0.12353847	37.47	38.38	3168400		AAV	-0.899999976	-21.74%	77150200	
A	20120110	38.82	0.42161527	38.61	39.1	3189900		AB	4.349999905	33.26%	85845800	
A	20120111	38.88	0.25519228	38.53	38.92	2812900		ABB	1.960000038	10.41%	648469300	
A	20120112	39.14	0.59396154	38.36	39.52	2842200		ABC	5.989999771	16.11%	650829900	
A	20120113	38.93	0.82049984	38.5	39.06	3618200		ABG	10.470000027	48.56%	82548300	
A	20120116	39.06	0.42915398	39.06	39.06	0		ABM	-0.670000017	-3.25%	83342100	
A	20120117	39.76	0.15465386	39.7	39.99	4157900		ABR	2.470000029	70.17%	26389200	
A	20120118	39.92	0.73669219	39.85	41.27	3170700		ABT	9.270000458	16.49%	1731582000	
A	20120119	41.37	1.00069213	41.11	41.85	3091700		ABX	-10.239999977	-22.63%	2032072400	
A	20120120	41.9	0.66003835	40.68	41	3906400		ACC	4.170000076	9.94%	205791500	

Hard

- Your solution will include everything from the moderate challenge.
- Your solution will also be able to locate the stock with the "Greatest % increase", "Greatest % Decrease" and "Greatest total volume".
- Solution will look as follows.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Yearly Change	Percent Char	Total Stock Volume			Greatest % Increase	Ticker	Value
A	20160101	41.81	42.363655	41.81	41.81	0		A	-3.75	8.97%	528576200			Greatest % Increase	AKS	355.80%
A	20160104	41.06	41.3050473	40.34	40.69	3287300		AA	-1.53	-5.17%	5208239000			Greatest % Decrease	ADPT	-85.99%
A	20160105	40.73	0.90221381	40.34	40.55	2587200		AAC	-11.82	-62.01%	57179800			Greatest Total Volume	AA	5208239000
A	20160106	40.24	0.71801573	40.05	40.73	2103600		AAN	9.60000038	42.88%	184809000					
A	20160107	40.14	3.22740293	38.81	39	3504300		AAP	18.6100006	12.36%	262665300					
A	20160108	39.22	0.71641219	38.47	38.59	3736700		AAT	4.73000002	12.33%	49026400					
A	20160111	38.71	0.20687024	37.41	37.94	2818600		AAV	1.66999996	32.87%	27358200					
A	20160112	38.43	0.58114487	37.65	38.19	1989300		AB	-0.4	-1.68%	64736300					
A	20160113	38.35	0.21244273	36.72	36.86	4206600		ABB	1.33999991	18.84%	503779400					
A	20160114	36.94	1.28488505	36.55	37.61	2893300		ABBV	3.38000011	5.71%	2034231800					
A	20160115	36.67	1.46003866	36.55	37.11	2994300		ABC	-25.52	-24.61%	647239900					
A	20160118	37.11	0.11435119	37.11	37.11	0		ABEV	0.44999999	10.09%	4199335100					
A	20160119	37.64	1.88362563	36.79	37.2	2506500		ABG	-5.73999998	-8.51%	89828200					
A	20160120	36.68	0.60916018	36.13	37.26	2469000		ABM	12.36999999	43.45%	79787400					
A	20160121	37.35	0.13645039	36.81	37.23	2298300		ABR	0.31	4.34%	27556100					
A	20160122	37.91	0.26625958	37.58	37.98	1834400		ABR-A	0.56999999	2.33%	792500					
A	20160125	37.4	0.22347325	37.4	37.61	1831200		ABR-B	2.01999998	8.95%	795300					
A	20160126	37.89	0.20312977	37.36	37.51	1755000		ABR-C	0.18000001	0.72%	521300					
A	20160127	37.39	0.2189313	36.81	37.05	1479400		ABRN	0.69999999	2.85%	1759800					
A	20160128	37.27	0.69301528	36.01	36.11	3479400		ABT	-6.5	-14.47%	2298099600					
A	20160129	36.44	0.66381729	36.31	37.65	2959800		ABX	8.60000038	116.53%	4996990800					
A	20160201	37.37	0.66648906	37	37.69	2666500		AC	2.34999999	7.70%	6530000					
A	20160202	37.18	0.88729006	36.95	37.07	1742300		ACC	8.43000031	20.39%	258457600					

CHALLENGE

- Make the appropriate adjustments to your script that will allow it to run on every worksheet just by running it once.
- This can be applied to any of the difficulties.

Other Considerations

- Use the sheet `alphabetical_testing.xlsx` while developing your code. This dataset is smaller and will allow you to test faster.
- Make sure that the script acts the same on each sheet. The joy of VBA is to take the tediousness out of repetitive task and run over and over again with a click of the button.

Submission

- Submit a screen shot each year of your results on the Multi Year Stock Data.
- Submit your VBA Scripts as separate files.

Submission

- To submit please save the following in the same folder to <https://www.dropbox.com/>.
 - A screen shot for each year of your results on the Multi Year Stock Data.
 - VBA Scripts as separate files.
- After everything has been saved, create a sharable link and submit that to <https://bootcampspot-v2.com/>.

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