VBA HOMEWORK

STUDENT: HOA ROACH

Purpose:

The purpose of this assignment was to code in VBA

Challenge:

VBA script is used to analyze real stock market data. This task requires the master and understanding of loop script to loop through all the stock for each year and then loop through all worksheets for all the years.

Trends Discovered:

The total stock volumn slightly decreased from 2014 to 2015 but then increased in 2016

Screenshots:

Testing data:



3 years: 2016, 2015, 2104

Α	В	С	D	E	F	G	Н	1	J	K	L	M	N	0	P	Q	
<ticker></ticker>	<date></date>	<open></open>	<high></high>	<low></low>	<close> <</close>	vol>		Ticker	Yearly Change	Percent Change	Total Stock Volumn				Ticker	Value	
i .	20160101	41.81	41.81	41.81	41.81	0		A	3.75	8.969146137	528576200			Greatest % Increase	SD	11675	
	20160104	41.06	41.19	40.34	40.69	3287300		AA	-1.53	-5.167173252	5208239000			Greatest % Decrease	DYN.W	-91.4893617	
	20160105	40.73	40.95	40.34	40.55	2587200		AAC	-11.82	-62.01469045	57179800			Greatest Total Volum	n BAC	27428529600	
	20160106	40.24	40.99	40.05	40.73	2103600		AAN	9.6	42.87628406	184809000						
	20160107	40.14	40.15	38.81	39	3504300		AAP	18.61	12.36462694	262665300						
	20160108	39.22	39.71	38.47	38.59	3736700		AAT	4.73	12.33376793	49026400						
	20160111	38.71	38.9	37.41	37.94	2818600		AAV	1.67	32.87401575	27358200						
	20160112	38.43	38.58	37.65	38.19	1989300		AB	-0.4	-1.677148847	64736300						
	20160113	38.35	38.47	36.72	36.86	4206600		ABB	3.34	18.83812747	503779400						
	20160114	36.94	37.88	36.55	37.61	2893300		ABBV	3.38	5.705604321	2034231800						
	20160115	36.67	37.56	36.55	37.11	2994300		ABC	-25.52	-24.60707743	647239900						
	20160118	37.11	37.11	37.11	37.11	0		ABEV	0.45	10.0896861	4199335100						
	20160119	37.64	37.92	36.79	37.2	2506500		ABG	-5.74	-8.511269276	89828200						
	20160120	36.68	37.61	36.13	37.26	2469000		ABM	12.37	43.44924482	79787400						
	20160121	37.35	37.83	36.81	37.23	2298300		ABR	0.31	4.335664336	27556100						
	20160122	37.91	38.18	37.58	37.98	1834400		ABR-A	0.57	2.326530612	792500						
	20160125	37.4	38.03	37.4	37.61	1831200		ABR-B	2.02	8.953900709	795300						
	20160126	37.89	37.96	37.36	37.51	1755000		ABR-C	0.18	0.715137068	521300						
	20160127	37.39	37.92	36.81	37.05	1479400		ABRN	0.7	2.845528455	1759800						
	20160128	37.27	37.27	36.01	36.11	3479400		ABT	-6.5	-14.47339123	2298099600						
	20160129	36.44	37.69	36.31	37.65	2959800		ABX	8.6	116.5311653	4996990800						
	20160201	37.37	37.95	37	37.69	2666500		AC	2.35	7.704918033	6530000						
	20160202	37.18	37.55	36.95	37.07	1742300		ACC	8.43	20.39187228	258457600						
	20160203	37.27	37.36	36.29	37.19	2128400		ACCO	5.92	83.02945302	163653100						
	20160204	37.15	37.79	36.97	37.42	2833400		ACH	1.97	23.90776699	11563400						
	20160205	37.26	37.31	35.83	36.04	4424600		ACM	6.33	21.07892108	296759000						
	20160208	35.61	35.78	34.39	34.8	3888600		ACN	12.63	12.0861244	650155300						
	20160209	34.21	35.77	34.15	35.37	3464400		ACP	2.08	18.32599119	21179200						
	20160210	35.63	36.73	35.53	35.85	3169900		ACRE	2.29	20.01748252	35062000						
	20160211	35.12	35.61	34.94	35.33	3224000		ACV	0.62	3.414096916	12734300						
	20160212	35.84	36.23	35.52	36.22	3923600		ADC	12.06	35.48102383	51966400						
	20160215	36.22	36.22	36.22	36.22	0		ADM	8.97	24.45474373	909133500						
	20160216	36.72	37.17	36.4	37.08	2903600		ADNT	11.6	24.68085106	101270800						
	20160217	35.22	38.13	34.75	37.87	5382300		ADPT	-46.88	-85.98679384	181359500						
	20160218	37.73	37.96	37.09	37.19	2231400		ADS	-48.07	-17.38077159	198979100						
	20160219	36.98	37.6	36,85	37,44	2339400		ADSW	1.72	8,390243902	34703200						
	20160222	37.88	38.19	37.78	38.03	1792900		ADX	-0.12	-0.935307872	44199400						
	20160223	37.64	37.96	36.95	37.17	1282200		AEB	-1.6	-6.630750104	5311800						
	20160224	36.65	37.5	36.47	37.48	1454900		AED	-0.7	-2.706883217	5932500						
	20160225	37.62	37.71		37.63	1453500		AEE	9.23	21.35091372	448588700						
	20160226	37.75	37.92		37.59	944200		AEG	-0.14	-2.469135802	492308100						
	20160229	37.59	37.7		37.35	2187500		AEH	-0.74	-2.870442203	16856300						
	20160301	37.63	38.66		38.59	2760100		AEK	-1.49	-5.410312273	10721900						
	20160302	38.49	39.27	38,41	39.04	3612500		AEL	-1.49	-6.200582605	200190700						
	20160303	38.92	39.23		39.2	946800		AEM	15.72	59.8173516	609302500						
	20160304	39.14	39.58		39.34	1124900		AEO	-0.33	-2.129032258	1367241800						
	20160307	39.04	39.68		39.43	1221500		AEP	4.69	8.048738631	705384600						
	20160308	38.97	39.13		38.09	1801400		AER	-1.55	-3.59128823	605224000						
	20160309	38.31	38.4		38.13	1614600		AES	2.05	21.42110763	1349417900						
	20160310	38.17	38.51		37.98	1614900		AES-C	0.32	0.638977636	3618900						
	20160310	38.43	39.27		39.23	1517300		AET	15.89	14.69663337	688246900						
	20160314	38.98	39.17		39.02	929600		AEUA	7.4	21.79675994	9916700						
	20160315	38.50	38.71		38.79	1059400		ΔE	7.4	17.66561514	219713200						
	2016 2015			- IA IIA	79								: •				

Α	В	С	D	E	F	G	н	1 1	J	K	L	M	N	0	P	Q	
<ticker></ticker>						<vol></vol>		Ticker	Yearly Change		Total Stock Volumn				Ticker		
A	20150101	40,94	40.94		40.94	0		A	0.87	2.125061065	645319200			Greatest % Increase		15630000000	
A	20150102	41.18	41.31	40.37	40.56	1530700		AA	-17.76	-37.4920836	6449104200			Greatest % Decrease	KMI.W	-98.5915493	
A	20150105	40.32	40.46		39.8	2042200		AA-B	-17.14	-33.97423191	40441700			Greatest Total Volumn		21277761900	
A	20150106	39.81	40.02		39.18	2084500		AAC	-11.86	-38.35705045							
A	20150107	39,52	39.81		39.7	3359600		AAN	-8.18	-26.75825973	179606700						
A	20150108	40.24	40.98		40.89	2116300		AAP	-8.77	-5.506027122	266930500						
A	20150109	41	41		40.59	1644900		AAT	-1.46	-3.667420246							
A	20150112	40.61	40.72		40.11	2771100		AAV	0.29	6.054279749							
A	20150113	40.47	40.7		39.55	2013400		AB	-1.98	-7.665505226							
A	20150114	39.03	39.1		39.06	5134000		ABB	-3.42	-16.17021277	532805500						
A	20150115	39.33	39.41		38.01	2630200		ABBV	-6.2	-9.474327628	2643021600						
A	20150115	37.86	38.46			3003900		ABC	13.55	15.02883762	516218400						
A	20150119	38.25	38.25		38.25	0		ABEV	-1.76	-28.29581994	3915345800						
A	20150119	38.43	38.66			5033600		ABG	-8.48	-11.16965227	82930400						
A	20150120	37.75	38.41		38.16	2721600		ABM	-0.48	-0.628272251	72539400						
A	20150121	38.51	39.86		39.65	4856500		ABR	0.38	5.612998523	37916900						
A	20150122	39.6	39.66			1519200		ABR-A	-0.49	-1.960784314	1243100						
A	20150125	38.79	39.17		39.15	1511200		ABR-B	-0.49	-8.663967611	1022000						
A	20150126	38.7	39.25		38.75	1703500		ABR-C	-2.14	-0.474495848	634000						
A	20150127	39.01	39.25		38.73	2033500		ABRN	0.12	0.408163265	2109900						
A	20150128	39.01	39.05		38,46	2329900		ABKIN	-0.11	-0.244335851	1469310700						
						3054300			-0.11								
A	20150130	38.01 37.9	38.32 38.76		37.77			ABX AC	-5.57	-31.34883721	4289215100						
	20150202				38.69	2508400			1	3.389830508							
A	20150203	39.04	39.63			2950300		ACC	-0.02	-0.048355899	228980000						
A	20150204	39.33	39.46		39.11	2567400		ACCO	-1.88	-20.86570477	167330800						
A	20150205	39.22	39.82		39.53	1826300		ACH	-3.28	-28.47222222	35801000						
A	20150206	39.54	39.81		39.34	2697200		ACM	-0.34	-1.119525848	362299600						
A	20150209	39.23	39.43		39.04	3586100		ACN	15.19	17.00817378	625655000						
A	20150210	39.31	39.76		39.67	1408700		ACP	-3.76	-24.88418266	14348400						
A	20150211	39.64	39.81		39.33	3337000		ACRE	-0.04	-0.348432056							
A	20150212	39.58	40.06		40.02	1317700		ACV	-6.79	-27.21442886							
A	20150213	39.97	40.31		40.15	2211900		ACW	-2.68	-61.75115207	46092000						
A	20150216	40.15	40.15		40.15	0		ADC	2.9	9.327758122	27995400						
A	20150217	40.01	40.53		40.52	2875700		ADM	-15.32	-29.46153846							
A	20150218	41.12	42.2		41.54	9007200		ADPT	17.12	45.77540107	82504100						
A	20150219	41.4	41.57		41.15	3737300		ADS	-9.48	-3.314105926							
A	20150220	41.09	42.11		41.95	2971800		ADX	-0.85	-6.213450292	31402600						
A	20150223	41.89	41.96		41.73	1967900		AEB	0.65	2.768313458							
A	20150224	41.62	42.1		42.06	1922100		AED	0.45	1.770956316							
A	20150225	42.34	42.49	42.09	42.2	2343400		AEE	-2.9	-6.2865814	419963700						
A	20150226	42.23	42.38	42	42.36	1505400		AEG	-1.83	-24.4	308824100						
A	20150227	42.3	42.36	42.05	42.21	1676300		AEH	0.28	1.098039216	12978100						
A	20150302	42.34	42.74	42.34	42.7	1847000		AEK	-0.58	-2.062588905	8268400						
A	20150303	42.43	42.57	42.14	42.26	1635400		AEL	-5.16	-17.67728674	134214500						
A	20150304	41.95	42.16	41.73	42	1305900		AEM	1.39	5.584572117	682224900						
A	20150305	41.99	42.24	41.84	42.22	1376400		AEO	1.62	11.67146974	1255753900						
A	20150306	41.95	42.05	41.49	41.53	1528500		AEP	-2.45	-4.034914361	709551700						
A	20150309	41.54	41.89	41.44	41.74	1492300		AER	4.34	11.17980422	527225700						
A	20150310	41.22	41.27	40.63	40.63	1961200		AES	-4.2	-30.50108932	1540683700						
A	20150311	40.79	41.13	40.67	40.85	2064300		AES-C	-0.81	-1.591668304	2371700						
A	20150312	40.99	41.24	40.97	41.1	2719800		AET	19.29	21.71563661	732993400						
A	20150313	40.96	41.46		40.87	4704500		AEUA	-16.3	-32.43781095	12416800						
Δ	20150316	/11.2	/1 83		/1 81	2551/100		ΔF	2.40	18 63772/55	19/5/3500						

Α	В	С	D	E	F	G	H	1	J	K	L	M	N	0	P	Q
icker>	<date></date>	<open></open>	<high></high>	<low></low>	<close></close>	vol>		Ticker	Yearly Change	Percent Change	Total Stock Volumn				Ticker	Value
	20140101	57.19	57.19	57.19		0		A	-16.25	-28.4140584	572978100			Greatest % Increase	DM	5581.1594
	20140102	57.1	57.1	56.15	56.21	1916100		AA	15.48	48.54186265	5161412000				СВО	-95.7264957
	20140103	56.39	57.35	56.26		1866600		AA-B	1.34	2.72856852	21618200			Greatest Total Volumn		2159547470
	20140106	57.4	57.7	56.56		1777400		AAC	10.92	54.6						
	20140107	56,95	57.63	56.93		1463200		AAN	1.17	3.979591837	237929300					
	20140108	57.33	58.54	57.17	58.39	2659400		AAP	48.6	43.91037224	200376400					
	20140109	58.4		57.87	58.41	1757600		AAT	8.38	26.66242444	40207800					
	20140110	58.51	59.01	58.14	58.93	1623300		AAV	0.45	10.36866359	86658700					
	20140113	58.77	59.1	58.6	58.93	2946700		AB	4.49	21.04029991	83051600					
	20140114	59.16		59.02	59.88	2562200		ABB	-5.41	-20.3689759	466820000					
	20140115	59.82	60.37	59.59	60.34	2335100		ABBV	12.63	23,91592501	2303237600					
١	20140116	60.24	60.5	60.04	60.5	1835900		ABC	19.85	28.23211492	428969000					
`	20140116	60.24	60.83	60.04	60.71	1699500		ABEV	-1.13	-15.37414966	3208014300					
	20140117	60.83	60.71	60.71	60.71	0		ABG	22.18	41.27279494	81065600					
A			60.88			3008400			0.06							
4	20140121	60.69 60.82		59.86				ABM	0.06	0.209863589	52403000					
A	20140122		61.22	60.71	60.93	2769300		ABR		1.651651652	28348400					
١	20140123	60.48		59.4	59.47	3063500		ABR-A	0.77	3.179190751	1798500					
١	20140124	59.46		57.71	57.87	2656300		ABR-B	2.09	9.243697479	1722000					
4	20140127	57.9		56.98	58.3	4669000		ABR-C	0.94	3.86036961	1758200					
A	20140128	58.5		57.91	58.1	2536200		ABRN	0.49	2.040816327	3451100					
A	20140129	57.67	58.22	57.41	57.65	2163000		ABT	6.69	17.45369163	1516024700					
A	20140130	58.42		58.42	59.51	3743100		ABX	-6.88	-39.02439024	3085372400					
A	20140131	58.61	59.15	58.05	58.15	3529000		ACC	9.15	28.40732692	180543400					
A	20140203	58.15	58.48	56.08	56.15	2929200		ACCO	2.29	34.07738095	223248000					
A	20140204	56.32	57.88	56.09	57.81	2911800		ACH	2.82	32.4137931	34117500					
A	20140205	57.58	57.7	56.96	57.43	2283800		ACM	0.94	3.194019708	303393900					
A	20140206	57.51	58.35	57.46	58.29	1609400		ACN	7.09	8.623206033	705479100					
A	20140207	58.46	59.47	58.13	59.42	1975200		ACP	-2.47	-14.05005688	14206700					
A	20140210	59.27	59.44	58.29	59.01	1760400		ACRE	-1.62	-12.36641221	44197000					
A	20140211	59	60	58.88	59.73	2148200		ACW	0.61	16.3538874	60360500					
A	20140212	60	60.46	59.67	59.89	2347200		ADC	2.07	7.133011716	16456400					
A	20140213	59.45	60.38	59.37	60.08	3097000		ADM	8.6	19.8156682	899905700					
A	20140214	57.15	57.77	54.87	55.25	17862700		ADPT	12.24	48.64864865	19722500					
A	20140217	55.25	55.25	55.25	55.25	0		ADS	23.12	8.793214924	178760600					
A	20140218	55.38	56.04	54.96	55.15	6553800		ADX	0.61	4.667176741	34090400					
A	20140219	55.01	56.65	54.9	55.94	4838700		AEB	3.8	19.30894309	7019700					
A	20140220	56.14	57.54	56.05	57.29	4629700		AED	1.82	7.715133531	9710300					
A	20140221	57.25	57.4	56.32	56.34	2407100		AEE	9.97	27.57190265	412343900					
A	20140224	56.45	56.98	56.4	56.75	2392700		AEG	-1.98	-20.88607595	245332800					
A	20140225	56.8		56.75	56.89	3375100		AEH	2.09	8.927808629	17897000					
A	20140226	56,98		56,75		2400900		AEK	-0.07	-0.248315005	11292400					
A	20140227	57.02	57.28	56.19		3123700		AEL	2.81	10.6520091	136859700					
A	20140228	56.45		56.4	56.93	2876200		AEM	-1.49	-5.648218347	600094300					
A	20140228	56.12	57.12	55.79	56.71	2488300		AEO	-0.52	-3.611111111	1376762500					
A	20140304	57.31	58	56.98	57.78	2841900		AEP	13.98	29.91014121	680782800					
Α	20140305	57.71	58	57.56		3113500		AER	0.47	1.225554107	286370900					
Α.	20140305	58.39	59.32	58.14	58.77	5178800		AES	-0.74	-5.099931082	1286666200					
Α.	20140306	59.06		57.52	58.42	3247100		AES-C	0.71	1.414906337	2214100					
A A	20140307	58.29	58.34	57.52		2563400		AET	20.24	29.50867473	608235900					
			58.34					AF								
A	20140311	58.23		56.5		3421700			-0.47	-3.398409255	120157200					
Α .	20140312	56.52	57.08	56.01	57.06	1652300		AF-C	2.74	12.5	3220400					
A	20140313	57.16		55.77	55.85	2318800		AFA	4.21	19.72820993	2822800					
Δ	201//031/	55.61	55 98	55.23	55.44	17/15/200		ΔER	1.2/	9.8962/19002	1706/1700					