MV 2_digit_s: Num Nulls dtype: in gvkey datadate tic AP AT BV COGS EMP REC SALE XOPR MV 2_digit_s: Num Nulls	0 t64 0 0 1 3206 1 5356 4918 3544 5144 0 4918 7933 ic 0				
dtype: in	gvkey	datadate	AP	AT	
		3.053000e+04	3.053000e+04	3.053000e+04	
	1393.285293	2.014310e+07	4.705187e+03	1.672655e+04	
2701.55472 std 70	26 6007 . 546859	1.418901e+04	5.482637e+04	1.236621e+05	
12357.1370 min	045 1004.000000	2.012113e+07	0.000000e+00	0.000000e+00	
-132599 . 00	00000 7454 . 000000	2.013123e+07	2.048000e+00	5.799425e+01	
15.783500 50% 3	1214.000000	2.014123e+07		6.077515e+02	
182.949000	7				
1156.5577		2.015123e+07	2.732065e+02	3.579302e+03	
max 319 284434.000	9507 . 000000 0000	2.017093e+07	1.709017e+06	3.287968e+06	
mean 2 std 14 min -8 25% 50% 75%	COGS 0530.000000 2845.038393 4319.185590 8016.000000 7.888500 103.612500 986.073500	EMP 27575.000000 11.744432 49.258676 0.000000 0.068000 0.670000 5.241000 2300.000000	REC 3.053000e+04 5.435096e+03 6.392260e+04 0.000000e+00 3.068000e+00 6.179650e+01 4.515395e+02 3.102199e+06	SALE 30530.000000 4266.712782 18655.974339 -3781.680000 19.186750 228.820000 1666.862000 483521.000000	\

count mean std min 25% 50% 75% max	XOPR 30530.000000 3428.044452 16019.282615 -8016.000000 21.811250 174.168500 1324.350500 452560.000000 gvkey	MV 30530.000000 4767.074906 19442.728091 0.000000 74.330325 804.318650 4350.708349 790050.098100 datadate	2_digit_sic 30530.000000 47.339404 20.360948 1.000000 28.000000 48.000000 63.000000 99.000000 AP	Num Nulls 30530.000000 0.498264 0.733525 0.000000 0.000000 1.000000 5.000000	
BV \ count 24923.	24923.000000	2.492300e+04	2.492300e+04	2.492300e+04	
mean 3387.1	79085.082293	2.014318e+07	5.739964e+03	1.925087e+04	
std 13384.	75531.457713	1.422507e+04	6.062769e+04	1.256695e+05	
min 0.0020	1004.000000 00	2.012113e+07	0.000000e+00	2.000000e-03	
25% 69 . 506	15929.000000 500	2.013123e+07	5.235000e+00	1.825015e+02	
50% 348.81		2.014123e+07	5.060000e+01	1.013837e+03	
75% 1646 . 1		2.015123e+07	4.120435e+02	4.865511e+03	
max 284434	318815.000000 .000000	2.017093e+07	1.709017e+06	2.692538e+06	
count mean std min 25% 50% 75% max	COGS 24923.000000 3380.091030 15728.486676 0.000000 22.247000 197.941000 1334.248000 435726.253000	EMP 22975.000000 13.436062 52.767743 0.000000 0.154000 1.100000 6.847500 2300.000000	REC 2.492300e+04 5.654431e+03 5.019350e+04 0.000000e+00 1.232100e+01 1.113700e+02 6.090500e+02 1.291825e+06	SALE 24923.000000 5048.457541 20399.785699 0.001000 53.580500 404.021000 2274.457000 483521.000000	\
count mean std min 25% 50% 75%	XOPR 24923.000000 4072.997384 17591.607843 0.000000 45.117000 301.801000 1768.167500	MV 24923.000000 5479.611692 21301.494554 0.003100 143.516450 1180.553800 4791.357200	2_digit_sic 24923.000000 48.241825 19.275033 1.000000 34.000000 49.000000 63.000000	Num Nulls 24923.000000 0.499539 0.732957 0.000000 0.000000 0.000000	

```
452560.000000 790050.098100
                                           99.000000
                                                           5.000000
max
gvkey
                  int64
datadate
                  int64
tic
                 object
AΡ
                float64
                float64
ΑT
BV
                float64
                float64
COGS
EMP
                float64
REC
                float64
SALE
                float64
X0PR
                float64
MV
                float64
2_digit_sic
                  int64
Num Nulls
                  int64
Binned SALE
                  int64
dtype: object
         7
1
         7
2
3
         7
         7
4
         . .
45061
         8
45063
         0
45064
         0
45065
         0
45066
Name: Binned_SALE, Length: 24923, dtype: int64
qvkey
                          int64
datadate
                datetime64[ns]
tic
                         object
AP
                        float64
ΑT
                        float64
BV
                        float64
COGS
                        float64
EMP
                        float64
REC
                        float64
SALE
                        float64
X0PR
                        float64
MV
                        float64
2 digit sic
                          int64
Num Nulls
                          int64
Binned SALE
                          int64
dtype: object
                                  AP
                                                  ΑT
                                                                  BV
                gvkey
COGS \
```

count	24923.000000 .000000	2.492300e+04	2.492300e+04	24923.000000
mean	79085.082293	5.739964e+03	1.925087e+04	3387.110514
0.0077 std	75531.457713	6.062769e+04	1.256695e+05	13384.436803
0.0360 min	1004.000000	0.000000e+00	2.000000e-03	0.002000
0.0000 25%	15929.000000	5.235000e+00	1.825015e+02	69.506500
0.0000 50%	30582.000000	5.060000e+01	1.013837e+03	348.810000
0.0004 75%	454 157363.500000	4.120435e+02	4.865511e+03	1646.140500
0.0030 max		1.709017e+06	2.692538e+06	284434.000000
1.0000				
MV \	EMP	REC	SALE	XOPR
count	2.297500e+04	2.492300e+04	24923.000000	24923.000000
mean	.000000 -2.044639e-15	5.654431e+03	3801.272048	4072.997384
std	511692 1.000000e+00	5.019350e+04	9620.207599	17591.607843
min	.494554 -2.546264e-01	0.000000e+00	0.453880	0.00000
0.0033 25%	100 -2.517080e-01	1.232100e+01	53.580500	45.117000
143.53 50%	16450 -2.337804e-01	1.113700e+02	404.021000	301.801000
	553800 -1.248596e-01	6.090500e+02	2274.457000	1768.167500
	357200	1.291825e+06	52423.780160	452560.000000
	0.098100	112910250100	324231700100	4323001000000
, 5005	2_digit_sic	Num Nulls	Binned_SALE	Year
count	24923.000000	24923.000000	24923 . 000000	24923.000000
mean	48.241825	0.499539	4.499980	2014.208402
std	19.275033	0.732957	2.872451	1.428829
min	1.000000	0.000000	0.000000	2012.000000
25%	34.000000	0.000000	2.000000	2013.000000
50%	49.000000	0.000000	4.000000	2014.000000
75%	63.000000	1.000000	7.000000	2015.000000
max	99.000000	5.000000	9.000000	2017.000000
COGS	gvkey datada \	te tic	AP A	T BV
	-			

0	1004 003629	2014-	-05-31	AIR	171.100	2199.500	999.500
73	1004	2015-	-05-31	AIR	142.300	1515.000	845.100
14.		2016-	-05-31	AIR	163.400	1442.100	865.800
21		2017-	-05-31	AIR	177.400	1504.100	914.200
24	-	2015-	-12-31	AAL	1563.000	48415.000	5635.000
27.		2016-	-12-31	AAL	1592.000	51274.000	3785.000
31		2013-	-12-31	CECE	23.108	348.536	5 170.406
41		2014-	-12-31	CECE	31.882	414.365	5 181.224
59		2015-	-12-31	CECE	62.199	598.819	239.153
77		2016-	-12-31	CECE	58.985	498.634	190.082
94.		2013-	-11-30	ASA	0.355	5 252.142	2 250.347
12		2014-	-11-30	ASA	0.175	223.333	3 221.800
15		2015-	-11-30	ASA	0.198	3 162.350	160.744
18		2016-	-11-30	ASA	0.412	245.020	243.229
22	-	2014-	-03-31	AVX	94.634	1 2384.988	3 2047.685
24		2015-	-03-31	AVX	76.043	3 2459.015	5 2131.963
27	002255 59 1072	2016-	-03-31	AVX	78.168	3 2409.819	9 2177.106
30		2017-	-03-31	AVX	80.441	L 2477.413	3 2216.479
31	002181 08 1075	2013-	-12-31	PNW	284.516	13508.686	6 4194.470
33		2014-	-12-31	PNW	295.211	l 14313.532	2 4367.493
0.	005194						
	ļ	EMP	REC		SALE	X0PR	MV
_	digit_sic						
0 50		711	297.900	7.	618251	1779.000	961.308000
	-0.162	714	231.100	7.	374190	1510.600	1046.395400

145	-0.165557	242.700	7.416138	1525.700	842.511200	
50 218	-0.167452	251.400	7.477378	1619.400	1200.328800	
50 240	1.991064	1425.000	10.621083	32099.000	26452.741700	
45 275	2.063077	1594.000	10.601125	32347.000	23685.556900	
45 311 35	-0.239788	44.364	5.284812	171.674	413.281200	
419	-0.238461	58.394	5.572979	227.617	408.189200	
35 595	-0.232378	97.778	5.906511	322.251	260.490200	
35 770	-0.235960	83.062	6.033113	360.792	476.559900	
35 945 67	NaN	0.194	1.499846	4.110	2418.935675	
1205 67	NaN	0.099	0.797057	3.677	2418.935675	
1523 67	NaN	0.087	0.510426	3.376	2418.935675	
1861 67	NaN	0.075	0.190620	3.210	208.524900	
	-0.048061	279.791	7.274205	1233.231	2217.152800	
	-0.057536	256.496	7.210248	1098.265	2400.071300	
	-0.061327	220.072	7.086344	987.276	2105.374400	
	-0.049956	221.091	7.179812	1067.927	2750.693400	
	-0.132715	393.497	8.147470	2192.597	5830.831400	
	-0.133985	395.179	8.158125	2263.032	7553.105000	
	Num Nulls	Binned_S	ALE Year	prevSALE	prevAT prevEl	ЧΡ
0	COGS \ 0		7 2014	2167.100	2136.900 -0.1352	35
0.00 73	0		7 2015	2035.000	2199.500 -0.1447	11
0.00 145	0		7 2016	1594.300	1515.000 -0.1627	14
0.00 218 0.00	0		7 2017	1662.600	1442.100 -0.1655	57

		9	2015	42650.000	43771.000 1	892519
0		9	2016	40990.000	48415.000 1	991064
0		4	2013	135.052	94.104 -0	246061
0		4	2014	197.317	348.536 -0	239788
0		4	2015	263.217	414.365 -0	238461
404 0		5	2016	367.422	598.819 -0	232378
585 3		0	2013	5.817	468.013	NaN
009 3		0	2014	4.481	252.142	NaN
009 3		0	2015	2.219	223.333	NaN
008 2		0	2016	1.666	162.350	NaN
008 0		6	2014	1414.400	2601.995 -0	.051851
533 0		6	2015	1442.604	2384.988 -0	.048061
556 0		6	2016	1353.228	2459.015 -0	057536
255 0		6	2017	1195.529	2409.819 -0	.061327
991 0		8	2013	3301.804	13379.615 -0	129304
695 0		8	2014	3454.628	13508.686 -0	132715
032						
prevREC	prevX0PR		prevAP	Scaled_Sa	les Scaled_p	revSales
315.400 297.900 231.100 242.700 1771.000 1425.000 29.499 44.364 58.394 97.778 0.481	1921.900 1779.000 1510.600 1525.700 36065.000 32099.000 117.119 171.674 227.617 322.251 4.095	1 1 13 15	71.100 42.300 63.400 77.000 63.000 11.098 23.108 31.882 62.199 0.148	1.052 1.152 1.175 0.846 0.783 0.566 0.635 0.613 0.836	343	1.014133 0.925210 1.052343 1.152902 0.974389 0.846638 1.435136 0.566131 0.635230 0.613578 0.012429 0.017772
	728 330 330 210 309 404 605 309 3009 3009 3008 2008 533 656 60 255 60 255 60 291 695 6032 695 6032 695 6032 695 6032 697 695 6032 697 695 6032 697 695 6032 697 695 6032 697 695 6032 697 695 6032 697 695 6032 697 695 6032	0 330 0 210 0 309 0 404 0 585 3 009 3 009 3 008 2 008 0 533 0 556 0 255 0 991 0 695 0 032 prevREC prevXOPR 315.400 1921.900 297.900 1779.000 231.100 1510.600 242.700 1525.700 1771.000 36065.000 1425.000 32099.000 29.499 117.119 44.364 171.674 58.394 227.617 97.778 322.251 0.481 4.095	728	728	728	728

1523 1861 2204 2479 2759 3035 3108 3368	0.099 0.087 217.091 279.791 256.496 220.072 368.730 393.497	3.677 3.376 1221.124 1233.231 1098.265 987.276 2045.713 2192.597	0.175 0.198 115.187 94.634 76.043 78.168 221.312 284.516	0.010262 0.004938 0.604868 0.550313 0.496107 0.529852 0.255734	0.010262 0.543583 0.604868 0.550313 0.496107 0.246779
,	Scaled_Emp	Scaled_E	npChange	Scaled_COGS	Scaled_COGSChange
\ 0 73 145 218 240 275 311 419 595 770 945 1205 1523 1861 2204 2479 2759 3035 3108 3368	-0.000068 -0.000074 -0.000109 -0.000116 0.000045 0.0000548 -0.000561 -0.000394 NaN NaN NaN NaN NaN O.000018 -0.000024 -0.000025 -0.000021 -0.000010	-8.189 -1.870 -1.314 2.255 1.486 6.669 3.800 1.466 -5.986	4220e-06 5234e-06 6334e-06 4123e-06 1378e-06 7425e-06 5786e-05 6115e-06 8093e-05 1329e-06 NaN NaN NaN NaN NaN 0649e-06 2970e-06 1347e-06 8439e-06 9531e-07	1.698415e-06 1.401010e-06 2.052489e-06 2.264145e-06 1.332622e-06 1.218022e-06 3.282055e-06 1.160080e-06 1.411921e-06 1.065644e-06 2.015441e-08 3.346838e-08 3.469252e-08 4.537734e-08 9.821862e-07 9.453842e-07 9.453842e-07 9.050568e-07 3.760984e-07 3.844712e-07	-1.429487e-07 -2.490662e-07 1.848134e-08 1.078998e-07 -2.147107e-07 1.322545e-08 1.045909e-06 2.739318e-07 4.361403e-07 8.863597e-08 7.355626e-11 -3.941205e-09 -3.093142e-09 -2.346616e-09 8.645588e-09 -1.261699e-07 -1.072707e-07 7.887458e-08 2.519516e-08 1.196635e-08
Scale	Scaled_Rec d_AP \	Scaled_R	ecChange	Scaled_XOPR	Scaled_X0PRChange
	0.139408	-(0.008189	0.832514	-0.066873
	0.105069	-(0.030371	0.686792	-0.122028
	0.160198	(0.007657	1.007063	0.009967
218	0.174329	(0.006033	1.122946	0.064975
	0.032556	-(0.007905	0.733339	-0.090608
	0.032924	(0.003491	0.668119	0.005122
0.0328 311	882 0.471436	(0.157964	1.824301	0.579731

0.245558				
419 0.167	7541	0.040254	0.653066	0.160509
0.091474		010.020.	0100000	0.1 = 0.00000
595 0.235	5971	0.095047	0.777698	0.228383
0.150107	274.0	0 004575	0.602506	0.064363
770 0.138 0.098502	3/10	-0.024575	0.602506	0.064362
945 0.000	n415	-0.000613	0.008782	0.000032
0.000759	7413	0.000013	01000702	01000032
1205 0.000	0393	-0.000377	0.014583	-0.001717
0.000694				
1523 0.000	0390	-0.000054	0.015116	-0.001348
0.000887	2462	0.000074	0.010772	0 001022
1861 0.000 0.002538	0462	-0.000074	0.019772	-0.001022
2204 0.107	7529	0.024097	0.473956	0.004653
0.036370	323	01024037	01475550	01004033
2479 0.107	7546	-0.009767	0.460491	-0.056590
0.031884				
2759 0.089	9496	-0.014812	0.401492	-0.045136
0.031788				
3035 0.091	1746	0.000423	0.443157	0.033468
0.033381	2410	0 001051	0 162076	0 010070
3108 0.029 0.021265	9410	0.001851	0.163876	0.010978
3368 0.029	254	0.000125	0.167524	0.005214
0.021853	9234	0.000123	0.10/324	0.003214
01021033				
Scaled	APChange	BookToMarket	average_sales	
SALE_Industry			3 _	
0	0.010202	1.039729	6.999454	
6 . 999454				
	-0.013094	0.807630	6.908063	
6.908063	0 012027	1 027642	6 005100	
145 6.885100	0.013927	1.027642	6.885100	
218	0.009708	0.761625	7.408951	
7.408951	01000700	01701015	71.100352	
240	0.004249	0.213021	8.028481	
8.028481				
275	0.000599	0.159802	8.118526	
8.118526				
311	0.127625	0.412325	6.248188	
6.248188	0 025174	0 442071	6 250202	
419 6.359362	0.025174	0.443971	6.359362	
595	0.073165	0.918088	6.392779	
	0 1 0 1 D T O D	0.310000	0.332113	

6.392	779			
770		-0.005367	0.398863	6.226697
6.226	697	0.000443	0 402405	4 06 4746
945	716	0.000442	0.103495	4.964716
4.964 1205		-0.000714	0.091693	4.897168
4.897	168			
1523	224	0.000103	0.066452	4.931224
4.931	224	0 001010	1 100427	4 000007
1861 4.986	207	0.001318	1.166427	4.986287
2204	207	-0.007899	0.923565	5.747203
5.747	203	0.007033	0.923303	31747203
2479	203	-0.007795	0.888292	5.708505
5.708	505	01007700	0.000=0=	
2759		0.000864	1.034071	5.746273
5.746	273			
3035		0.000943	0.805789	6.278186
6.278	186			
3108		0.004724	0.719361	7.405098
7.405	098	0 00070	0 570220	7 240202
3368	202	0.000792	0.578238	7.318203
7.318	203			
	nrev	/SALE2		
0	pic	NaN		
73	7.6	518251		
145		374190		
218		116138		
240		NaN		
275	10.6	521083		
311		NaN		
419		284812		
595		572979		
770	5.9	906511		
945	_	NaN		
1205		199846		
1523	-	797057		
1861 2204	0.5	510426 NaN		
2479	7 -	274205		
2759		210248		
3035		086344		
3108	,	NaN		
3368	8.1	147470		
			OLS Regress	sion Results

========					
Dep. Variabl	.e :	Scal	led_Sales	R-squared:	
0.846			01.5	Adi Danua	and a
Model: 0.846			0LS	Adj. R—squa	rea:
Method:		Least	Squares	F-statistic	::
5651.			M 2024	D 1 /5 1	
Date: 0.00		Mon, 08	Mar 2021	Prob (F-sta	tistic):
Time:			17:22:06	Log-Likelih	ood:
-17294.			40050		
No. Observat 3.461e+04	:10ns:		12353	AIC:	
Df Residuals	5:		12340	BIC:	
3.471e+04			40		
Df Model: Covariance 1	vne:	r	12 nonrobust		
=========	;======	' 	========	========	==========
=========	=====				D 111
[0.025	a 9751	coef	std err	t	P> t
		0 0507	0.040	4 705	
Intercept 0.033		0.0567	0.012	4.765	0.000
Scaled_prevS		0.7466	0.003	242.034	0.000
0.741					
Scaled_Emp 0.815	2 970	1.8466	0.526	3.507	0.000
Scaled_EmpCh		-753.4976	151.500	-4.974	0.000
-1050.462	-456.5	533			
Scaled_COGS -7.88e+04			1.75e+04	-2.546	0.011
Scaled COGS			4.04e+04	6.670	0.000
1.9e+05 3		5			
Scaled_Rec -0.001	0.001	6.913e-05	0.000	0.233	0.815
Scaled_RecCh		0.0232	0.019	1.205	0.228
-0.015	0.061				
Scaled_XOPR		0.2492	0.035	7.026	0.000
0.180 Scaled_XOPRO	0.319 Change	-0.4547	0.080	-5.662	0.000
-0.612	-0.297				
Scaled_AP	0 000	-0.0016	0.005	-0.315	0. 753
-0.012 Scaled_APCha		-0.0433	0.032	-1.360	0.174
-0.106	0.019			_100	

BookToMarket -2.767e-06 3.9e-05 -0.071 0.943

-7.93e-05 7.37e-05

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Omnibus: 32709.553 Durbin-Watson:

2.241

Prob(Omnibus): 0.000 Jarque-Bera (JB):

11883653771.874

Skew: 30.139 Prob(JB):

0.00

Kurtosis: 4807.633 Cond. No.

1.05e+09

========

Warnings:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

[2] The condition number is large, 1.05e+09. This might indicate that there are

strong multicollinearity or other numerical problems.

OLS Regression Results

========

Dep. Variable: Scaled_Sales R-squared:

0.846

Model: OLS Adj. R-squared:

0.846

Method: Least Squares F-statistic:

40.80

Date: Mon, 08 Mar 2021 Prob (F-statistic):

4.96e-23

Time: 17:22:06 Log-Likelihood:

-17294.

No. Observations: 12353 AIC:

3.461e+04

Df Residuals: 12340 BIC:

3.471e+04

Df Model: 12 Covariance Type: cluster

============

coef std err t P>|t|

[0.025 0.975]

Intercept 0.0567 0.012 4.603 0.000

0.032	0.081				
Scaled_prev		0.7466	0.001	956.616	0.000
0.745					
Scaled_Emp		1.8466	0.604	3.057	0.003
0.641	3.052	750 4076	257 222	2.400	
Scaled_EmpCl			357.200	-2.109	0.039
-1466.280	-40./10) _452a.404	1.84e+04	2 420	0 010
Scaled_COGS -8.13e+04			1.846+04	-2 . 420	0.018
			8.73e+04	3,089	0.003
9.55e+04		10376103	01750104	31003	01005
		.913e-05	2.93e-05	2.356	0.021
1.06e-05	0.000				
Scaled_RecCl	hange	0.0232	0.036	0.648	0.519
-0.048					
Scaled_X0PR		0.2492	0.028	8.756	0.000
0.192					
Scaled_XOPR		-0.4547	0.182	-2.504	0.015
-0.817	-0.092	0 0010	0 000	1 000	0.210
Scaled_AP -0.005	0 002	-0.0016	0.002	-1.006	0.318
Scaled APCh		-0.0433	0 030	-1.444	0.153
-0.103	_	010433	01030	11777	01133
BookToMarke		.767e-06	7.47e-07	-3.706	0.000
-4.26e-06					
=========	=======	======	========		=========
========					
Omnibus:			32709.553	Durbin-Wats	on:
2.241	,		0.000		(30)
Prob(Omnibus			0.000	Jarque-Bera	(JB):
11883653771 Skew:	.0/4		30.139	Prob(JB):	
0.00			30.139	FIOD(JD);	
Kurtosis:			4807.633	Cond. No.	
1.05e+09			.00,1000		
=========	=======	======	:=======	========	=========

Warnings:

========

- [1] Standard Errors are robust to cluster correlation (cluster)
- [2] The condition number is large, 1.05e+09. This might indicate that there are

strong multicollinearity or other numerical problems.
/opt/anaconda3/lib/python3.7/site-packages/statsmodels/base/
model.py:1752: ValueWarning: covariance of constraints does not
have full rank. The number of constraints is 12, but rank is 8
 'rank is %d' % (J, J_), ValueWarning)

/opt/anaconda3/lib/python3.7/site-packages/statsmodels/base/model.py:1752: ValueWarning: covariance of constraints does not have full rank. The number of constraints is 12, but rank is 9 'rank is %d' % (J, J_), ValueWarning)

OLS Regression Results

	=======			=========
Dep. Variable: 0.846	Sca	led_Sales	R-squared:	
Model:		0LS	Adj. R-squa	red:
0.846		0_0	7.0.51 1. 0400	. • • • • • • • • • • • • • • • • • • •
Method:	Leas	t Squares	F-statistic	:
775.0 Date:	Mon, 08	Mar 2021	Prob (F-sta	tistic):
0.00	- -			
Time:		17:22:08	Log-Likelih	ood:
-17294.		40050		
No. Observations:		12353	AIC:	
3.461e+04 Df Residuals:		12340	RTC.	
3.471e+04		12540	DIC.	
Df Model:		12		
Covariance Type:		HC3		
=======================================	========	========	========	=========
=======================================				
[0.025 0.975]			z	
Intercept 0.003 0.110	0.0567	0.027	2.079	0.038
Scaled_prevSales		0.302	2.475	0.013
0.155 1.338		1 710	1 074	0. 202
Scaled_Emp -1.523 5.216	1.8466	1.719	1.074	0.283
Scaled_EmpChange	-753.4976	379.781	-1.984	0.047
-1497 . 855 -9 .	140			
Scaled_COGS		3.46e+04	-1.288	0.198
-1.12e+05 2.32e		1 2205	2 210	0.027
Scaled_COGSChange 3.14e+04 5.08e+		1.22e+05	2.218	0.027
Scaled_Rec		9.39e-05	0.736	0.462
-0.000 0.000		91390 03	01/30	01402
Scaled RecChange		0.039	0.587	0.557
-0.054 0.100				
Scaled_X0PR	0.2492	0.242	1.031	0.303
-0.225 0.723				

```
Scaled_XOPRChange
                                          -1.988
                    -0.4547
                                 0.229
                                                      0.047
           -0.006
-0.903
Scaled AP
                    -0.0016
                                 0.002
                                          -0.784
                                                      0.433
-0.006
            0.002
                                 0.114
Scaled APChange
                    -0.0433
                                          -0.381
                                                      0.703
-0.266
            0.179
BookToMarket
                 -2.767e-06
                              6.94e-06
                                          -0.399
                                                      0.690
-1.64e-05
            1.08e-05
========
Omnibus:
                           32709.553
                                      Durbin-Watson:
2.241
Prob(Omnibus):
                               0.000
                                      Jarque-Bera (JB):
11883653771.874
Skew:
                              30.139
                                      Prob(JB):
0.00
Kurtosis:
                            4807.633
                                      Cond. No.
1.05e+09
========
Warnings:
[1] Standard Errors are heteroscedasticity robust (HC3)
[2] The condition number is large, 1.05e+09. This might indicate
that there are
strong multicollinearity or other numerical problems.
    VIF Factor
                        Variable
                Scaled_prevSales
         1.20
0
1
         1.27
                      Scaled Emp
2
         1.15
                Scaled EmpChange
3
        16.31
                     Scaled COGS
4
         6.50
               Scaled COGSChange
5
         1.01
                      Scaled Rec
6
         1.01
                Scaled RecChange
7
        17.38
                     Scaled XOPR
8
         6.80
               Scaled XOPRChange
9
         1.03
                       Scaled AP
10
         1.04
                 Scaled_APChange
                    BookToMarket
         1.00
11
                   Robust linear Model Regression Results
______
========
                                      No. Observations:
Dep. Variable:
                        Scaled Sales
12233
Model:
                                 RLM
                                      Df Residuals:
12224
Method:
                                IRLS
                                      Df Model:
```

8 Norm: Scale Est.: Cov Type: Date: Time: No. Iterati		Mon, 08	HuberT mad H1 Mar 2021 17:23:03 50		
========	======				
[0.025	0.975]	coet	std err	Z	P> z
Intercept		0.0138	0.001	13.978	0.000
0.012	0.016				
Scaled_prev	Sales	0.9481	0.002	440.505	0.000
0.944	0.952				
Scaled_Emp		0.0251	0.069	0.366	0.714
-0.109	0.160				
Scaled EmpChange -		-856.9468	22.528	-38.039	0.000
-901.101	-812.79	92			
Scaled_COGS		1.106e+04	1140.113	9.705	0.000
8830 . 295	1.33e+0	94			

8.17e-06

0.009

0.004

0.010

-11.484

78.365

-3.931

-0.132

0.000

0.000

0.000

0.895

If the model instance has been used for another fit with different fit

parameters, then the fit options might not be the correct ones anymore $\boldsymbol{\boldsymbol{.}}$

-0.1014

0.3049

-0.0383

-1.082e-06

Scaled_RecChange

Scaled_XOPRChange

Scaled_APChange

BookToMarket

-0.084

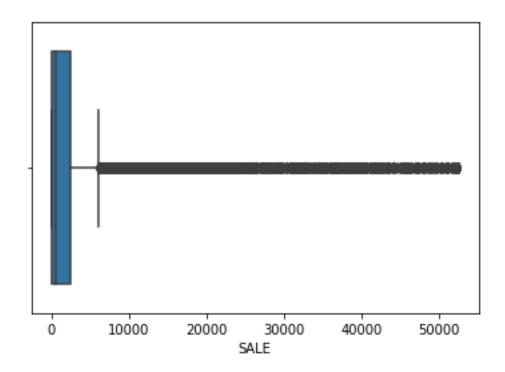
0.313

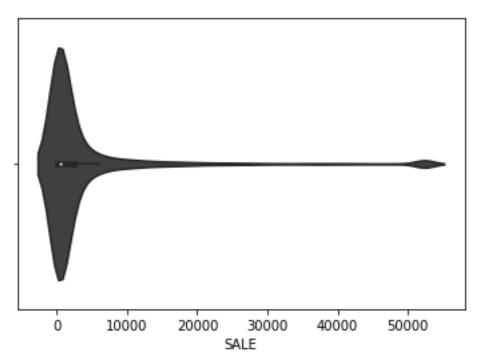
-0.019

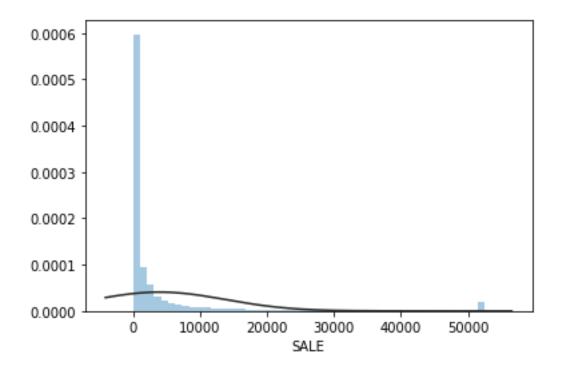
-0.119

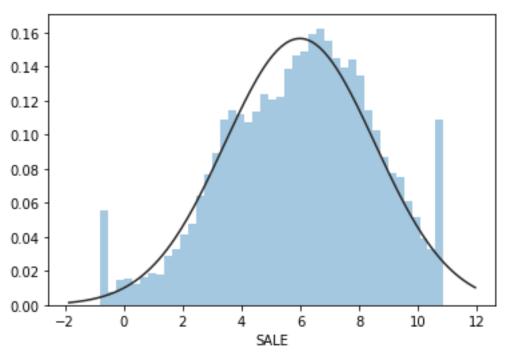
0.297

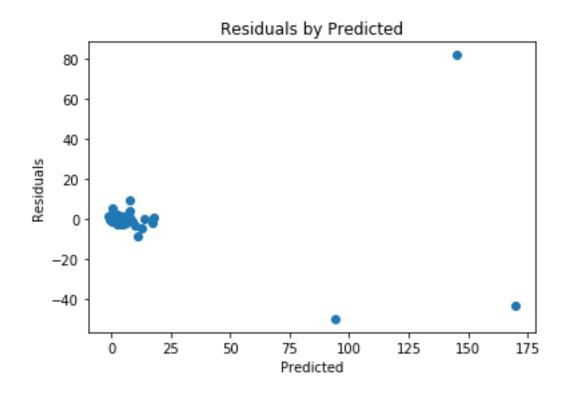
-0.057

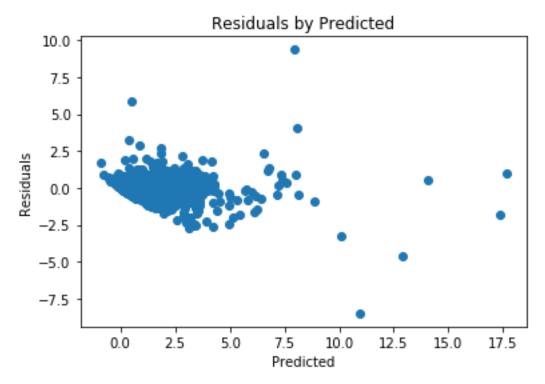


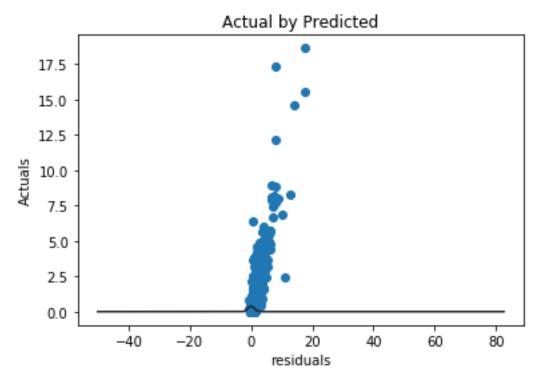












<Figure size 432x288 with 0 Axes>

In [3]: