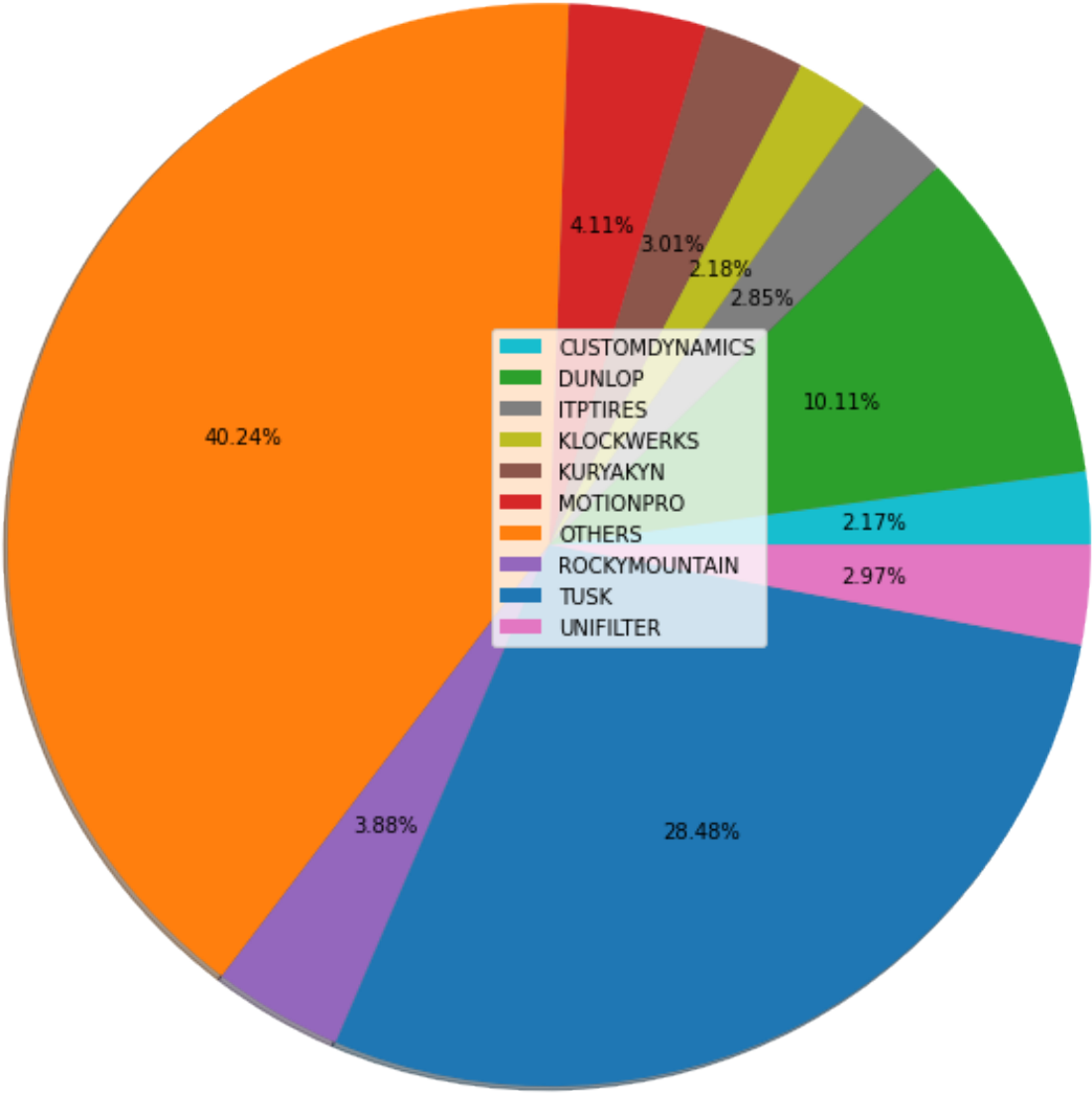


Rollun-model-Profit-01-09-2021

September 1, 2021

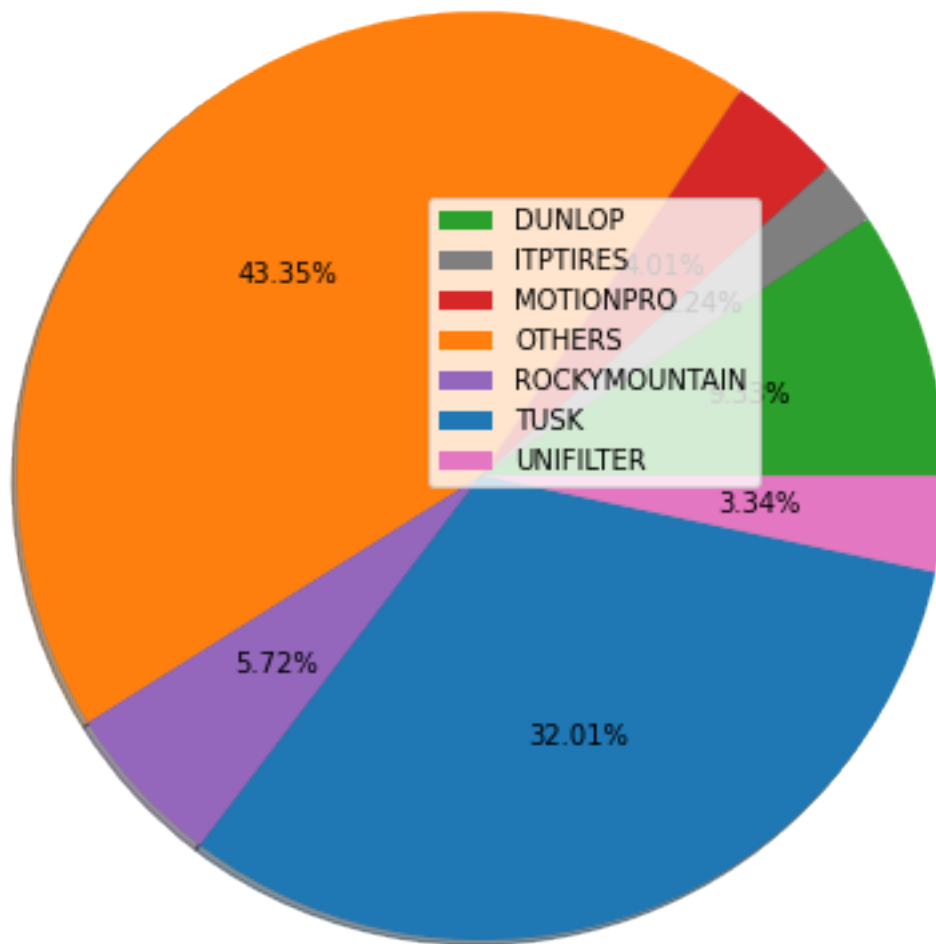
Brands by profit between 2020-12-31 and 2021-07-01



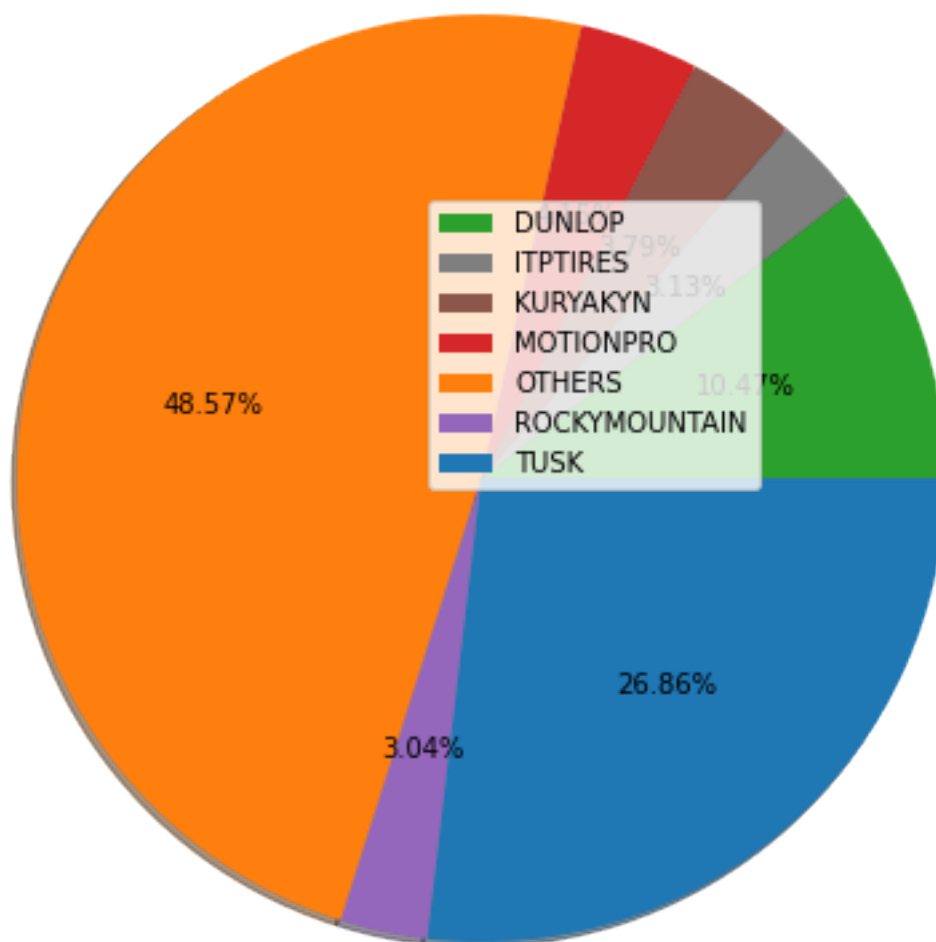
+-----+

	brand_new	sum	count	percent %	mean \$
0	TOTAL	185900	22913	100	8.1
1	OTHERS	74813.2	9719	40.2	7.7
2	TUSK	52935.2	8034	28.5	6.6
3	DUNLOP	18794.2	1090	10.1	17.2
4	MOTIONPRO	7633.5	1873	4.1	4.1
5	ROCKYMOUNTAIN	7214.8	379	3.9	19
6	KURYAKYN	5598.3	314	3	17.8
7	UNIFILTER	5525.6	965	3	5.7
8	ITPTIRES	5295.1	269	2.8	19.7
9	KLOCKWERKS	4050.5	113	2.2	35.8
10	CUSTOMDYNAMICS	4039.9	157	2.2	25.7

Brands by profit between 2020-12-31 and 2021-03-31



Brands by profit between 2021-03-31 and 2021-07-01



Dataframe brands by profit between 2020-12-31 and 2021-03-31

	brand_new	sum	count	percent %	mean \$
0	TOTAL	58424.2	7744	100.0	7.5
1	OTHERS	25325.0	3071	43.3	8.2
2	TUSK	18699.9	3097	32.0	6.0
3	DUNLOP	5451.1	322	9.3	16.9
4	ROCKYMOUNTAIN	3343.5	196	5.7	17.1
5	MOTIONPRO	2344.0	587	4.0	4.0
6	UNIFILTER	1951.6	399	3.3	4.9
7	ITPTIRES	1309.1	72	2.2	18.2

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+---+-----+-----+-----+-----+
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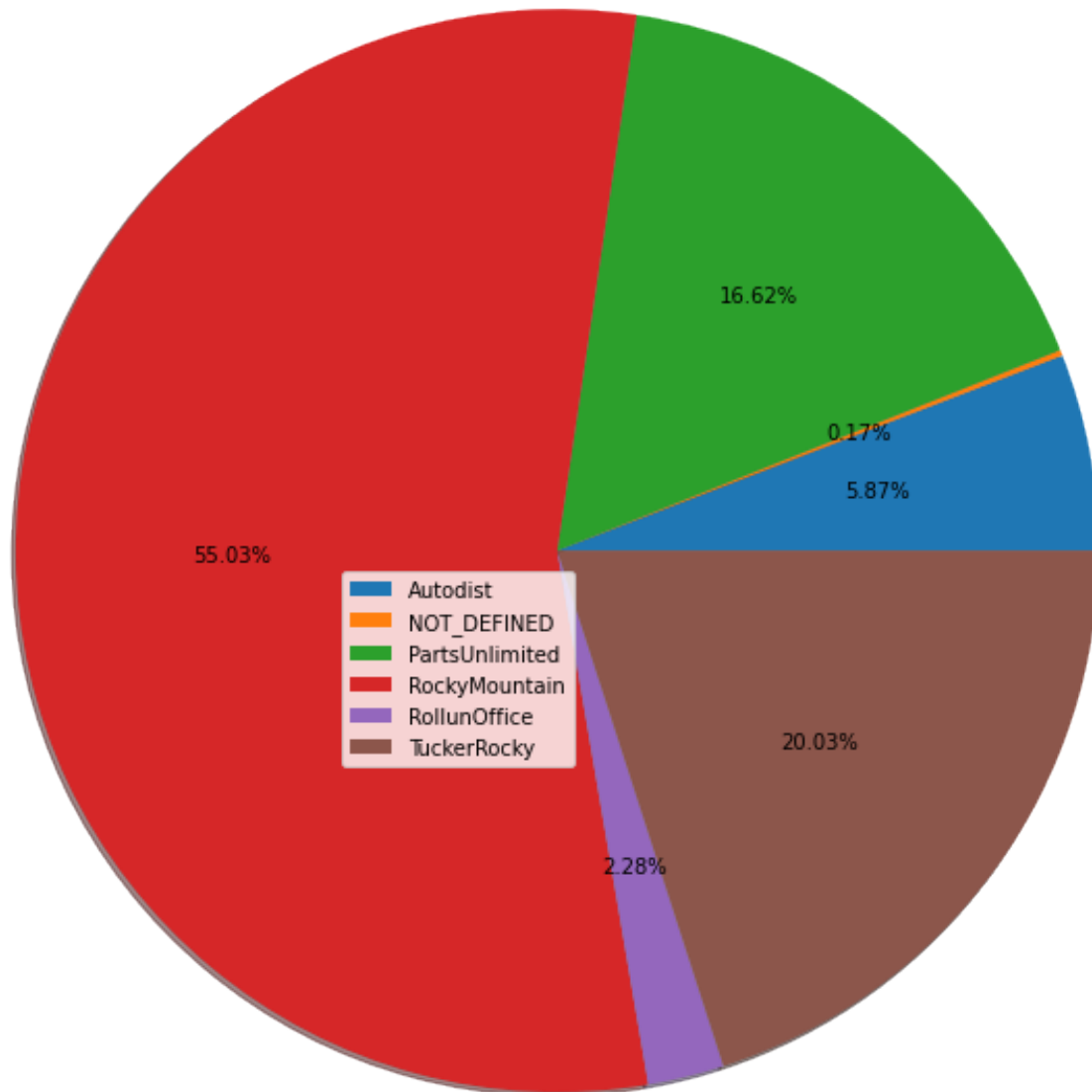
Dataframe brands by profit between 2021-03-31 and 2021-07-01

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+---+-----+-----+-----+-----+
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	brand_new	sum	count	percent %	mean \$
0	TOTAL	127476.2	15169	100.0	8.4
1	OTHERS	61913.8	7531	48.6	8.2
2	TUSK	34235.3	4937	26.9	6.9
3	DUNLOP	13343.1	768	10.5	17.4
4	MOTIONPRO	5289.5	1286	4.1	4.1
5	KURYAKYN	4837.1	267	3.8	18.1
6	ITPTIRES	3986.0	197	3.1	20.2
7	ROCKYMOUNTAIN	3871.3	183	3.0	21.2

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+---+-----+-----+-----+-----+
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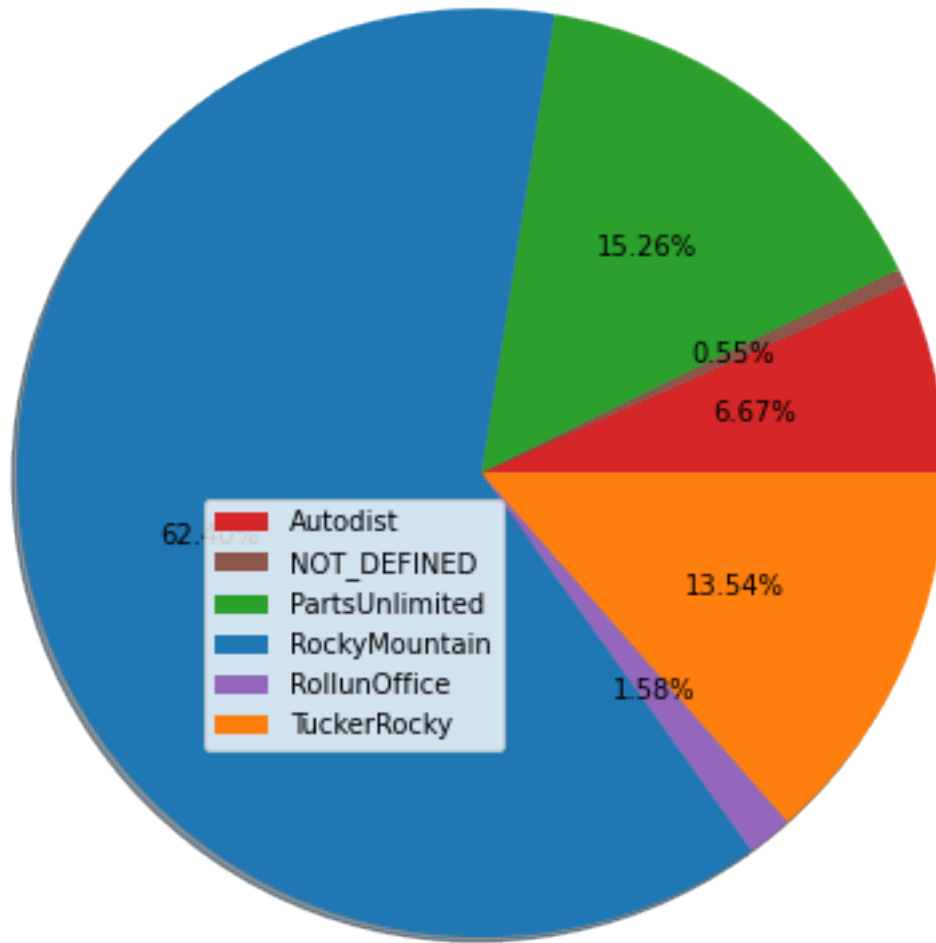
Suppliers by profit between 2020-12-31 and 2021-07-01



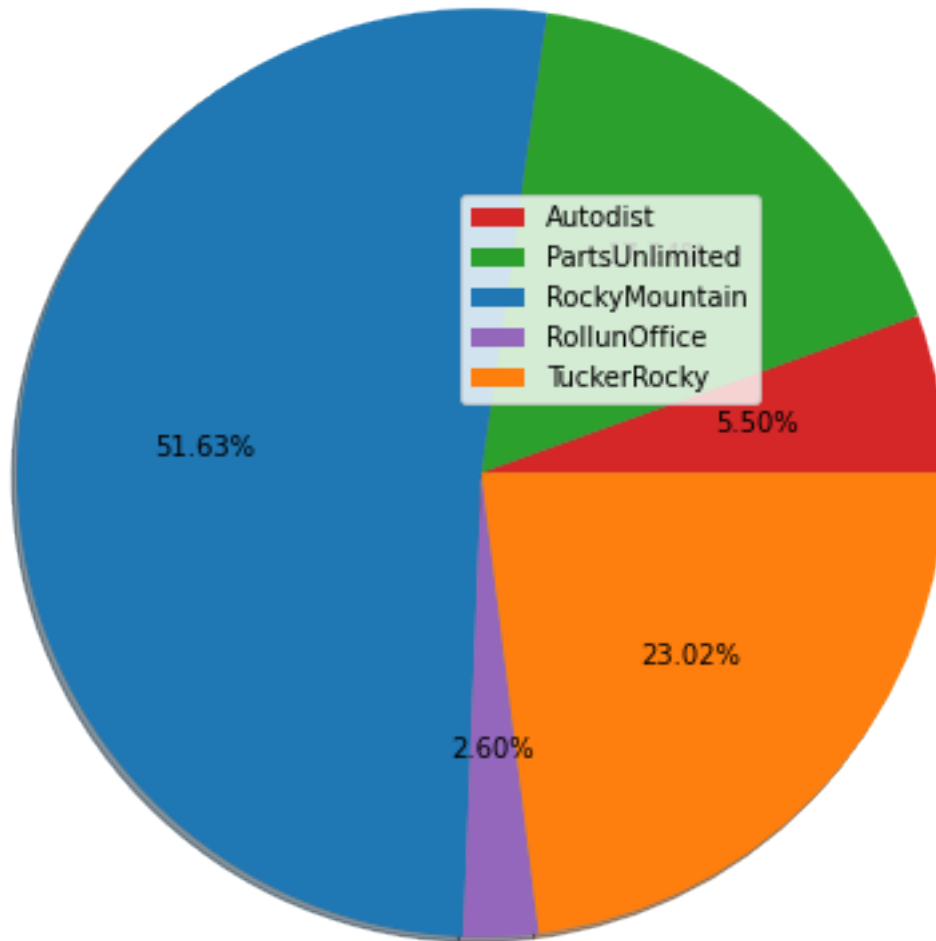
[60]:

	Sr name	sum_prof	count	sum_rev	percent%	prof/rev%	mean_prof\$
0	TOTAL	186147.3	22879	1103983.0	100.0	16.9	8.1
1	RockyMountain	102433.3	13515	539833.9	55.0	19.0	7.6
2	TuckerRocky	37289.9	3086	259101.3	20.0	14.4	12.1
3	PartsUnlimited	30934.9	3052	205595.8	16.6	15.0	10.1
4	Autodist	10922.4	2278	77314.5	5.9	14.1	4.8
5	RollunOffice	4243.0	921	21021.1	2.3	20.2	4.6
6	NOT_DEFINED	323.8	27	1116.5	0.2	29.0	12.0

Suppliers by profit between 2020-12-31 and 2021-03-31



Suppliers by profit between 2021-03-31 and 2021-07-01



Dataframe Suppliers by profit between 2020-12-31 and 2021-03-31

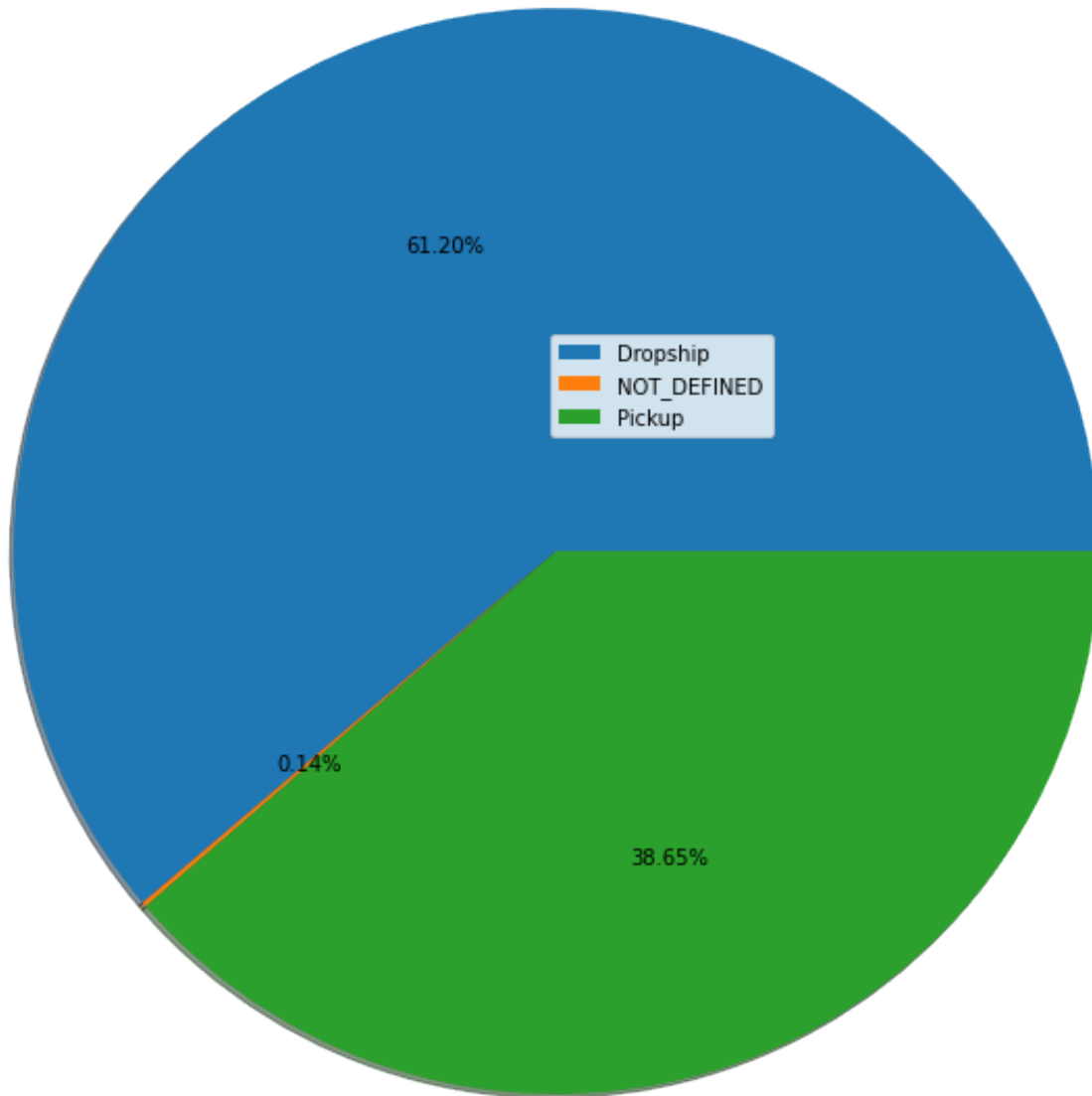
	Sr name	sum_prof	count	sum_rev	percent%	mean_prof\$	prof/rev%
0	TOTAL	58728.4	7730	344093.0	100.0	7.6	17.1
1	RockyMountain	36646.2	5046	198662.3	62.4	7.3	18.4
2	PartsUnlimited	8962.2	910	54245.1	15.3	9.8	16.5
3	TuckerRocky	7952.5	705	53305.6	13.5	11.3	14.9
4	Autodist	3915.2	750	30289.2	6.7	5.2	12.9
5	RollunOffice	928.5	292	6474.4	1.6	3.2	14.3
6	NOT_DEFINED	323.8	27	1116.5	0.6	12.0	29.0

Dataframe Suppliers by profit between 2021-03-31 and 2021-07-01

	Sr name	sum_prof	count	sum_rev	percent%	mean_prof\$	prof/rev%
0	TOTAL	127418.9	15149	759889.9	100.0	8.4	16.8

1	RockyMountain	65787.2	8469	341171.6	51.6	7.8	19.3
2	TuckerRocky	29337.4	2381	205795.6	23.0	12.3	14.3
3	PartsUnlimited	21972.7	2142	151350.7	17.2	10.3	14.5
4	Autodist	7007.1	1528	47025.3	5.5	4.6	14.9
5	RollunOffice	3314.5	629	14546.7	2.6	5.3	22.8

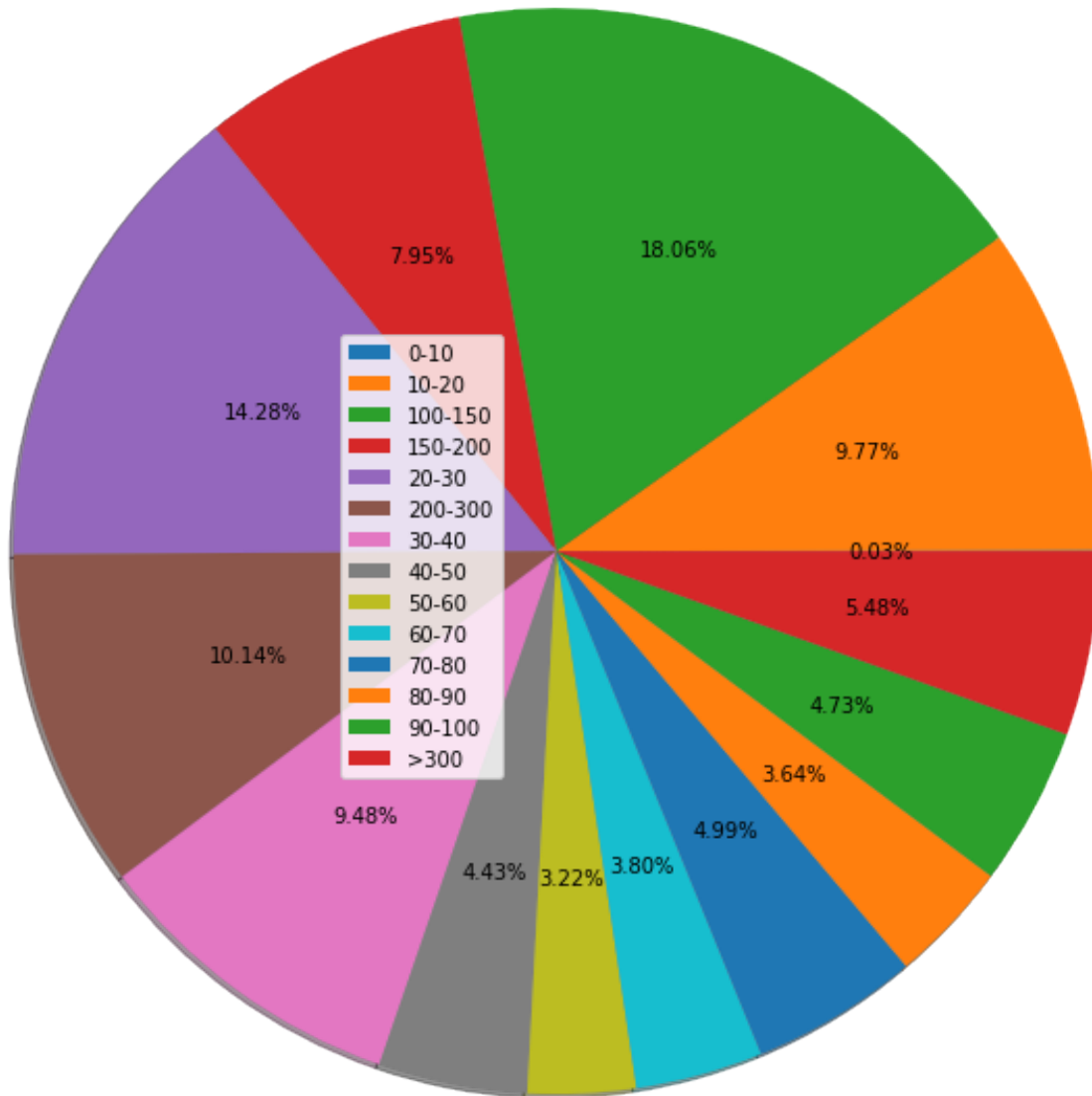
Dropship/pickup by profit between 2020-12-31 and 2021-07-01



	is_dropship	sum	count	percent %	mean \$
0	TOTAL	185900.4	22913	100.0	8.1

1	Dropship	113779.3	8823	61.2	12.9	
2	Pickup	71858.4	14069	38.7	5.1	
3	NOT_DEFINED	262.7	21	0.1	12.5	
+---+-----+-----+-----+-----+-----+-----+						

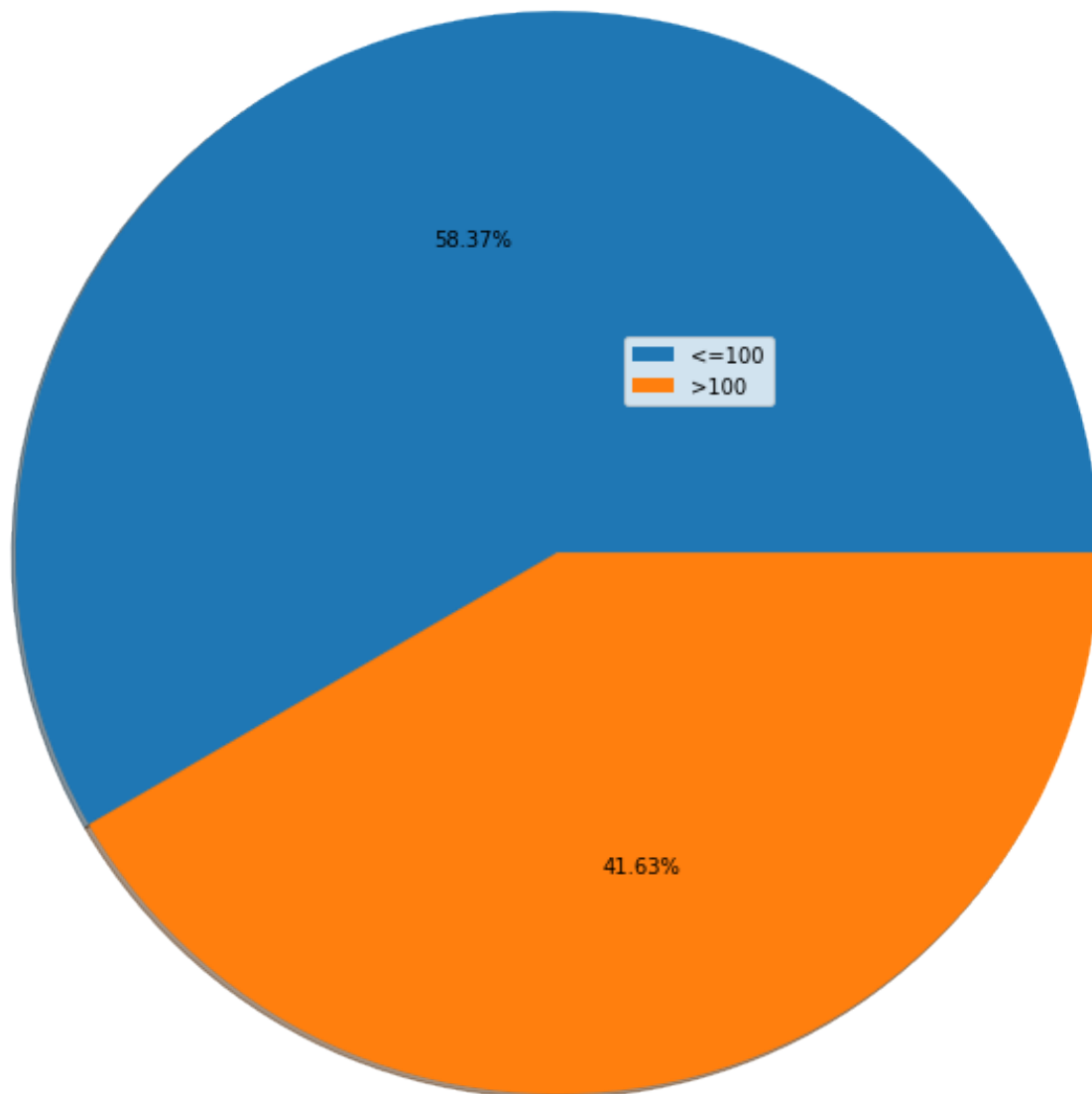
Profit by groups. Groups defined by value of the item-price between 2020-12-31 and 2021-07-01



+---+-----+-----+-----+-----+-----+-----+					
	Item-price	profit sum	count	percent profit %	mean profit \$
+---+-----+-----+-----+-----+-----+-----+					
0	TOTAL	185900.4	22913	100.0	8.1

1	100-150	33577.8	1666	18.1	20.2	
2	20-30	26542.1	6481	14.3	4.1	
3	200-300	18852.0	512	10.1	36.8	
4	10-20	18168.6	6273	9.8	2.9	
5	30-40	17626.2	2997	9.5	5.9	
6	150-200	14769.9	536	7.9	27.6	
7	>300	10189.6	136	5.5	74.9	
8	70-80	9284.1	802	5.0	11.6	
9	90-100	8785.9	595	4.7	14.8	
10	40-50	8239.6	796	4.4	10.4	
11	60-70	7060.5	637	3.8	11.1	
12	80-90	6760.0	505	3.6	13.4	
13	50-60	5981.6	590	3.2	10.1	
14	0-10	62.4	387	0.0	0.2	
+-----+-----+-----+-----+-----+-----+						

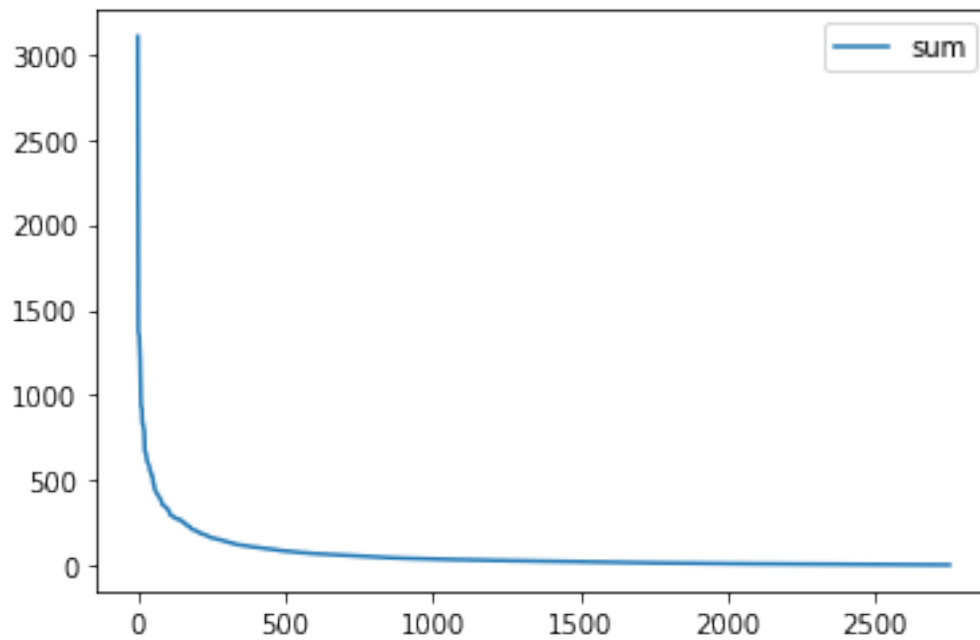
Profit by groups. Groups defined by value of the item-price between 2020-12-31 and 2021-07-01



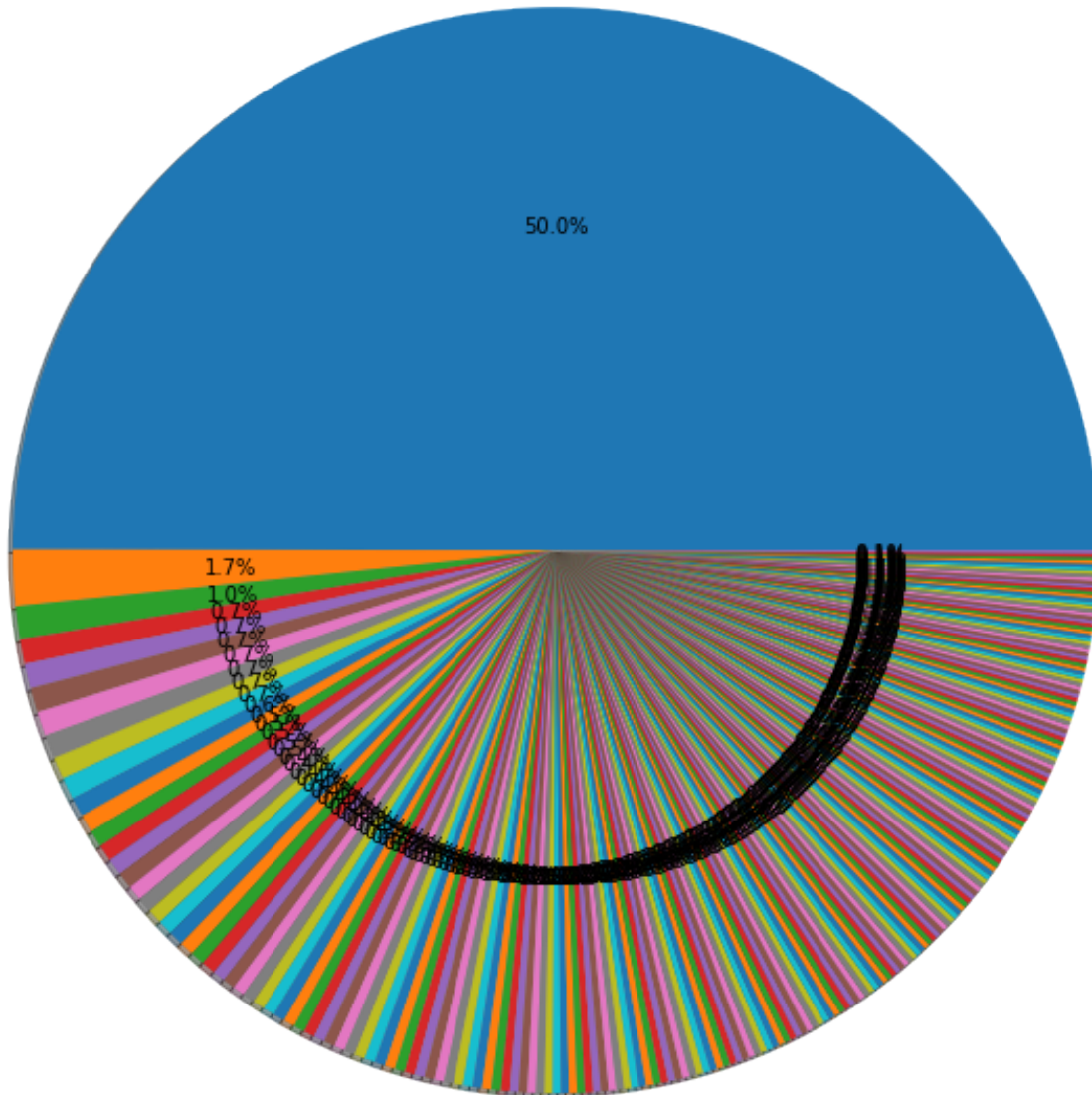
	Item-price	profit sum	count	percent profit %	mean profit \$
0	TOTAL	185900.4	22913	100.0	8.1
1	>100	77389.4	2850	41.6	27.2
2	<=100	108511.0	20063	58.4	5.4

Distribution by products which generate 100 % of profit. Number of products:
2754 Date Between 2020-12-31 and 2021-07-01

[65]: <AxesSubplot:>



Profit by products. 225 products generate 50.0 % of profit. Date Between 2020-12-31 and 2021-07-01



	asin	count	sum	percent %	mean \$
0	TOTAL	12552	185900.4	100.0	14.8
1	OTHERS	3438	92907.0	50.0	27.0
2	B00YNTVRK6	100	3102.3	1.7	31.0
3	B00T6J9F16	42	1823.9	1.0	43.4
4	B07MKPR3Y5	283	1369.4	0.7	4.8
5	B06XC756LG	42	1366.4	0.7	32.5
6	B000WJL65W	46	1352.7	0.7	29.4
7	B008QS9NEW	247	1344.2	0.7	5.4
8	B06XBQ6TJD	47	1297.5	0.7	27.6
9	B005J92G86	128	1219.8	0.7	9.5

10	B000GZKFD6	66	1209.3	0.7	18.3	
11	B07PQXK6Y3	109	1075.5	0.6	9.9	
12	B00RNI4SUA	23	993.5	0.5	43.2	
13	B00PTVUMPI	28	935.7	0.5	33.4	
14	B07RMYBTYL	38	933.8	0.5	24.6	
15	B004E2703G	23	929.4	0.5	40.4	
16	B06XC3HFNF	29	909.4	0.5	31.4	
17	B003QT26D6	61	835.2	0.4	13.7	
18	B07HMBZJPT	170	831.3	0.4	4.9	
19	B00SA8IKGA	15	828.8	0.4	55.3	
20	B07HNL5VNX	250	828.3	0.4	3.3	
21	B06XC9X45S	25	819.0	0.4	32.8	
22	B07H4PP1SC	7	800.0	0.4	114.3	
23	B018UC7I54	118	792.1	0.4	6.7	
24	B07HCZ13R8	8	778.6	0.4	97.3	
25	B00CV63WLU	32	693.9	0.4	21.7	
26	B003072GD0	20	666.8	0.4	33.3	
27	B015R4D870	99	665.6	0.4	6.7	
28	B07142PYG4	28	663.7	0.4	23.7	
29	B0184RZI1Q	11	663.6	0.4	60.3	
30	B08549LV5F	29	650.8	0.4	22.4	
31	B06XC92NRW	23	641.0	0.3	27.9	
32	B005C5AVAC	43	627.1	0.3	14.6	
33	B01N6PA05B	121	618.7	0.3	5.1	
34	B011A01094	61	611.5	0.3	10.0	
35	B011A01WOM	144	607.9	0.3	4.2	
36	B01N5VF8N0	19	607.7	0.3	32.0	
37	B06XN5KJRD	15	597.1	0.3	39.8	
38	B07RN16YJV	19	594.9	0.3	31.3	
39	B01MUI0KYI	159	592.5	0.3	3.7	
40	B004FS3TIS	27	585.9	0.3	21.7	
41	B07FKXCWL7	108	584.1	0.3	5.4	
42	B00306SMIO	50	566.8	0.3	11.3	
43	B077H3S551	52	560.5	0.3	10.8	
44	B00BG07I04	12	559.0	0.3	46.6	
45	B000GRMNKW	58	550.6	0.3	9.5	
46	B07Q1BST9R	89	549.1	0.3	6.2	
47	B01ENNO1LI	11	539.9	0.3	49.1	
48	B07TDKYGKG	11	536.4	0.3	48.8	
49	B000GV5GSO	17	534.4	0.3	31.4	
50	B011J6LD7C	46	534.2	0.3	11.6	
51	B06W5453LH	82	516.4	0.3	6.3	
52	B011A07Z3Y	57	516.1	0.3	9.1	
53	B0711H2JQ1	9	515.1	0.3	57.2	
54	B07RMZQH5C	19	483.6	0.3	25.5	
55	B01MZD90NF	15	481.3	0.3	32.1	
56	B07HR2QNZJ	166	479.8	0.3	2.9	
57	B005J92ETW	34	477.0	0.3	14.0	

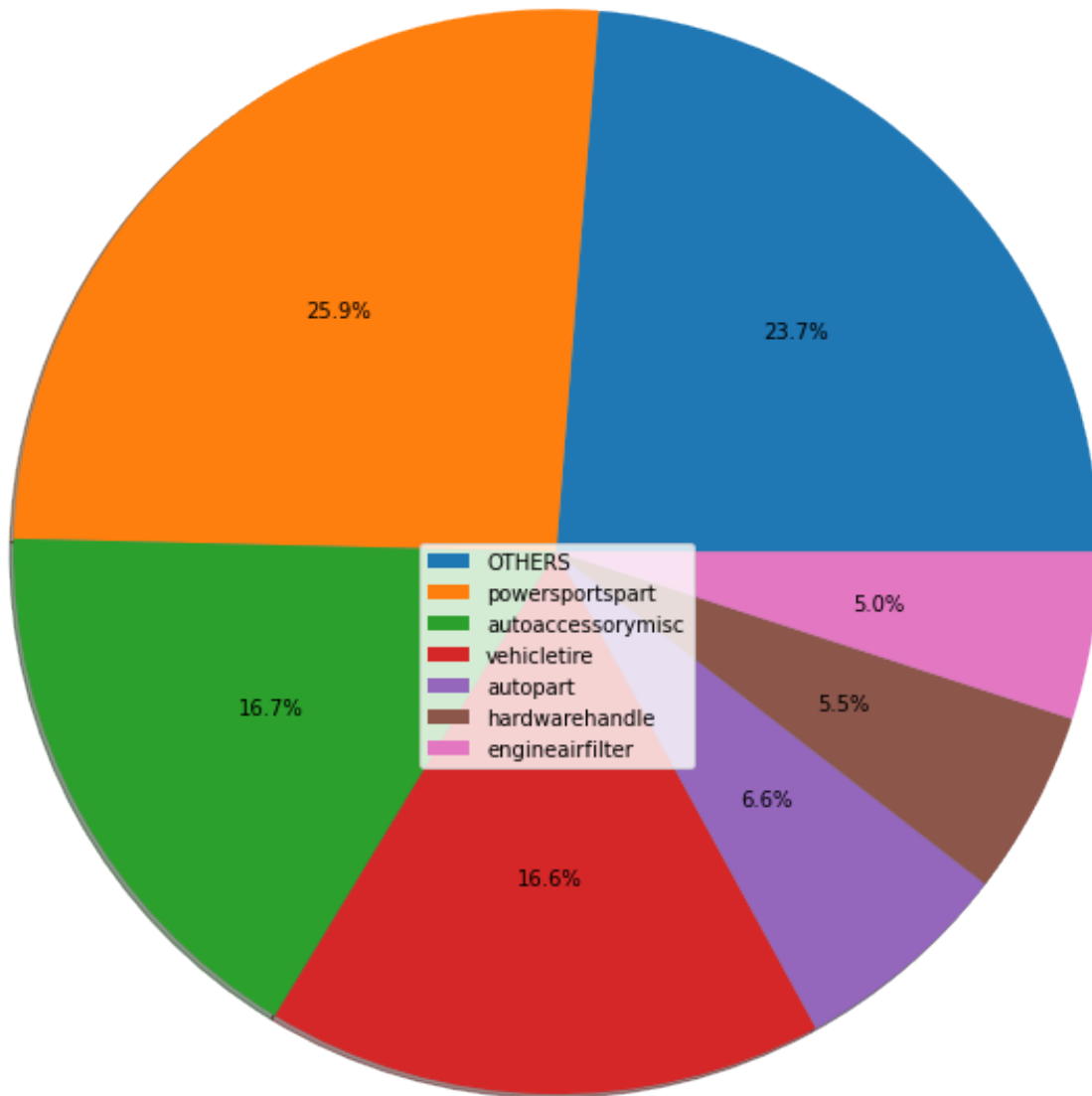
58	B000GVF76A	15	454.7	0.2	30.3	
59	B000GRQQGE	27	451.5	0.2	16.7	
60	B005J8WYVQ	20	444.6	0.2	22.2	
61	B07FKRK8VJ	78	443.1	0.2	5.7	
62	B0080XIYM6	60	440.7	0.2	7.3	
63	B07C2B28NW	49	436.9	0.2	8.9	
64	B011A082CM	117	435.6	0.2	3.7	
65	B00ZZF76ZM	3	425.3	0.2	141.8	
66	B00ZZF7B20	3	425.3	0.2	141.8	
67	B004E5GBJG	27	422.0	0.2	15.6	
68	B00SA8IHTK	7	416.9	0.2	59.6	
69	B01JX961YM	45	415.3	0.2	9.2	
70	B01MYN5PY7	32	413.6	0.2	12.9	
71	B07QDPF8B4	121	411.9	0.2	3.4	
72	B0797FM2YK	175	410.4	0.2	2.3	
73	B01MYDQQ50	20	409.0	0.2	20.5	
74	B00I69WDUW	19	405.5	0.2	21.3	
75	B084YSR5JV	95	402.0	0.2	4.2	
76	B07RMZLB2N	12	395.1	0.2	32.9	
77	B000GROKCQ	62	395.0	0.2	6.4	
78	B005J8X348	29	394.3	0.2	13.6	
79	B07RMKKDCB	21	391.7	0.2	18.7	
80	B0155C3VYY	71	381.6	0.2	5.4	
81	B00VSNL7HS	22	381.3	0.2	17.3	
82	B07FKYM49Z	34	378.7	0.2	11.1	
83	B07S1C931C	11	377.9	0.2	34.4	
84	B01M3WBUL4	63	367.1	0.2	5.8	
85	B011J6LAUC	34	359.0	0.2	10.6	
86	B07T89WZZY	7	357.6	0.2	51.1	
87	B011A01JKY	136	357.5	0.2	2.6	
88	B005J928T8	26	354.0	0.2	13.6	
89	B06XC1CXC6	12	353.0	0.2	29.4	
90	B00SK12GKS	13	352.6	0.2	27.1	
91	B006B20K8I	32	349.5	0.2	10.9	
92	B0068ESQTY	52	348.5	0.2	6.7	
93	B081QYCTZJ	19	348.4	0.2	18.3	
94	B01N6SENNB	98	345.5	0.2	3.5	
95	B07LHB751Y	30	345.0	0.2	11.5	
96	B07FKRK63B	48	344.7	0.2	7.2	
97	B006B24SCW	16	343.4	0.2	21.5	
98	B07HMK2SG2	64	342.9	0.2	5.4	
99	B000GRMNKM	58	341.7	0.2	5.9	
100	B0068EPXMC	17	340.5	0.2	20.0	
101	B07FK54VVY	17	335.0	0.2	19.7	
102	B00SA8IFEC	5	333.4	0.2	66.7	
103	B0068FVFD2	14	331.0	0.2	23.6	
104	B002FKPMC4	69	328.8	0.2	4.8	
105	B000GRMNKG	15	328.5	0.2	21.9	

106	B0155C3VUS	61	321.7	0.2	5.3
107	B01IE4JHX0	66	321.3	0.2	4.9
108	B01HOVQCZE	37	321.2	0.2	8.7
109	B007HGG1ZI	4	310.0	0.2	77.5
110	B000WMRVOE	19	306.5	0.2	16.1
111	B011A022Z0	161	304.2	0.2	1.9
112	B003CJJMMI	17	297.4	0.2	17.5
113	B000GZR4QC	40	296.5	0.2	7.4
114	B011J6Z40E	7	296.0	0.2	42.3
115	B007KPT9M8	10	295.7	0.2	29.6
116	B07FK2FYRN	11	295.7	0.2	26.9
117	B07GT6HFDYD	4	295.0	0.2	73.8
118	B00PTY9BDE	19	293.8	0.2	15.5
119	B07FB1K8CR	9	293.6	0.2	32.6
120	B005J92EZQ	23	291.6	0.2	12.7
121	B0035UDHZ2	74	289.9	0.2	3.9
122	B001K07BQQ	67	288.9	0.2	4.3
123	B01MYBP57A	44	285.4	0.2	6.5
124	B076WN7C6J	10	285.2	0.2	28.5
125	B002FKR1Z0	7	283.6	0.2	40.5
126	B00PHVYVYI	27	282.6	0.2	10.5
127	B005D2C00K	22	282.6	0.2	12.8
128	B003CKXNOU	5	282.1	0.2	56.4
129	B007RURQBM	15	280.7	0.2	18.7
130	B01M1CHUI0	53	280.4	0.2	5.3
131	B06XC4VR26	17	279.1	0.2	16.4
132	B003HC8DGQ	86	276.7	0.1	3.2
133	B01N9Z10V0	50	276.5	0.1	5.5
134	B000GZKC3E	3	275.1	0.1	91.7
135	B00GPG6EJY	23	275.0	0.1	12.0
136	B0045AYCY6	6	274.6	0.1	45.8
137	B0085SQX2S	5	273.9	0.1	54.8
138	B00ZYWN7ZE	24	272.5	0.1	11.4
139	B073QB35LD	23	272.3	0.1	11.8
140	B007RURNI8	11	272.2	0.1	24.7
141	B00MTXD01M	18	271.8	0.1	15.1
142	B002KR1R7Q	2	271.7	0.1	135.9
143	B005L13V68	3	271.4	0.1	90.5
144	B00631E14Q	12	271.3	0.1	22.6
145	B0051K4GXG	53	271.2	0.1	5.1
146	B000GTVVYL4	23	271.1	0.1	11.8
147	B07ND468J1	34	268.5	0.1	7.9
148	B00EO63BK2	17	267.3	0.1	15.7
149	B004FS952M	73	264.8	0.1	3.6
150	B07FK3Y2MW	34	264.5	0.1	7.8
151	B00HYJTMCM	46	263.0	0.1	5.7
152	B07FKXBG69	7	262.3	0.1	37.5
153	B075MR3GMW	16	262.0	0.1	16.4

154	B00HFRQCE4	7	258.5	0.1	36.9
155	B000W0JJ9W	17	256.6	0.1	15.1
156	B00EEIEEIS	2	253.5	0.1	126.8
157	B01I5Y0DB4	19	253.1	0.1	13.3
158	B008BYRJBA	2	251.9	0.1	126.0
159	B07NSJM412	117	251.5	0.1	2.1
160	B00HJUKB12	27	251.0	0.1	9.3
161	B000UKI17Y	67	250.0	0.1	3.7
162	B076X6ZQT9	8	249.6	0.1	31.2
163	B07DM7K74N	33	248.2	0.1	7.5
164	B011A02930	98	244.9	0.1	2.5
165	B01NAREYV3	20	243.7	0.1	12.2
166	B07S1CX5SP	19	243.6	0.1	12.8
167	B0039L9LS0	26	239.8	0.1	9.2
168	B071HKWFST	14	237.3	0.1	16.9
169	B081VTDCMD	4	234.4	0.1	58.6
170	B01N5R25HA	11	233.9	0.1	21.3
171	B07DF6T36H	1	233.3	0.1	233.3
172	B01AX9QQPU	117	233.2	0.1	2.0
173	B00AW1SVY4	48	232.2	0.1	4.8
174	B01LYB6LC8	40	232.1	0.1	5.8
175	B001AWIC5W	3	231.8	0.1	77.3
176	B000MQ847S	25	231.6	0.1	9.3
177	B004C237XE	18	230.3	0.1	12.8
178	B077BSP399	2	230.2	0.1	115.1
179	B072V83RXN	5	229.1	0.1	45.8
180	B07HNYVV8X	73	225.2	0.1	3.1
181	B01N28MAOW	30	223.7	0.1	7.5
182	B00M9ME4IG	7	221.2	0.1	31.6
183	B005KQVBT8	18	219.8	0.1	12.2
184	B01N21RDI2	44	216.4	0.1	4.9
185	B004GSFLR0	16	214.8	0.1	13.4
186	B0043YEICK	26	212.8	0.1	8.2
187	B0067EN2P8	13	212.5	0.1	16.3
188	B011SG3QM8	23	212.2	0.1	9.2
189	B01LYB6MPL	31	211.0	0.1	6.8
190	B000WJHS9K	12	210.4	0.1	17.5
191	B071RXKCG8	6	210.3	0.1	35.1
192	B002FDL5LI	27	209.5	0.1	7.8
193	B007W58BJ8	9	209.1	0.1	23.2
194	B071WT7LYL	18	209.1	0.1	11.6
195	B000W03IQM	53	208.8	0.1	3.9
196	B00HXJCUOU	4	208.6	0.1	52.2
197	B0039ZVV0G	33	208.3	0.1	6.3
198	B003SVQ9EY	30	205.7	0.1	6.9
199	B000GV53AA	31	205.5	0.1	6.6
200	B07CFJW8DJ	24	204.2	0.1	8.5
201	B000GU0ZKE	32	203.2	0.1	6.3

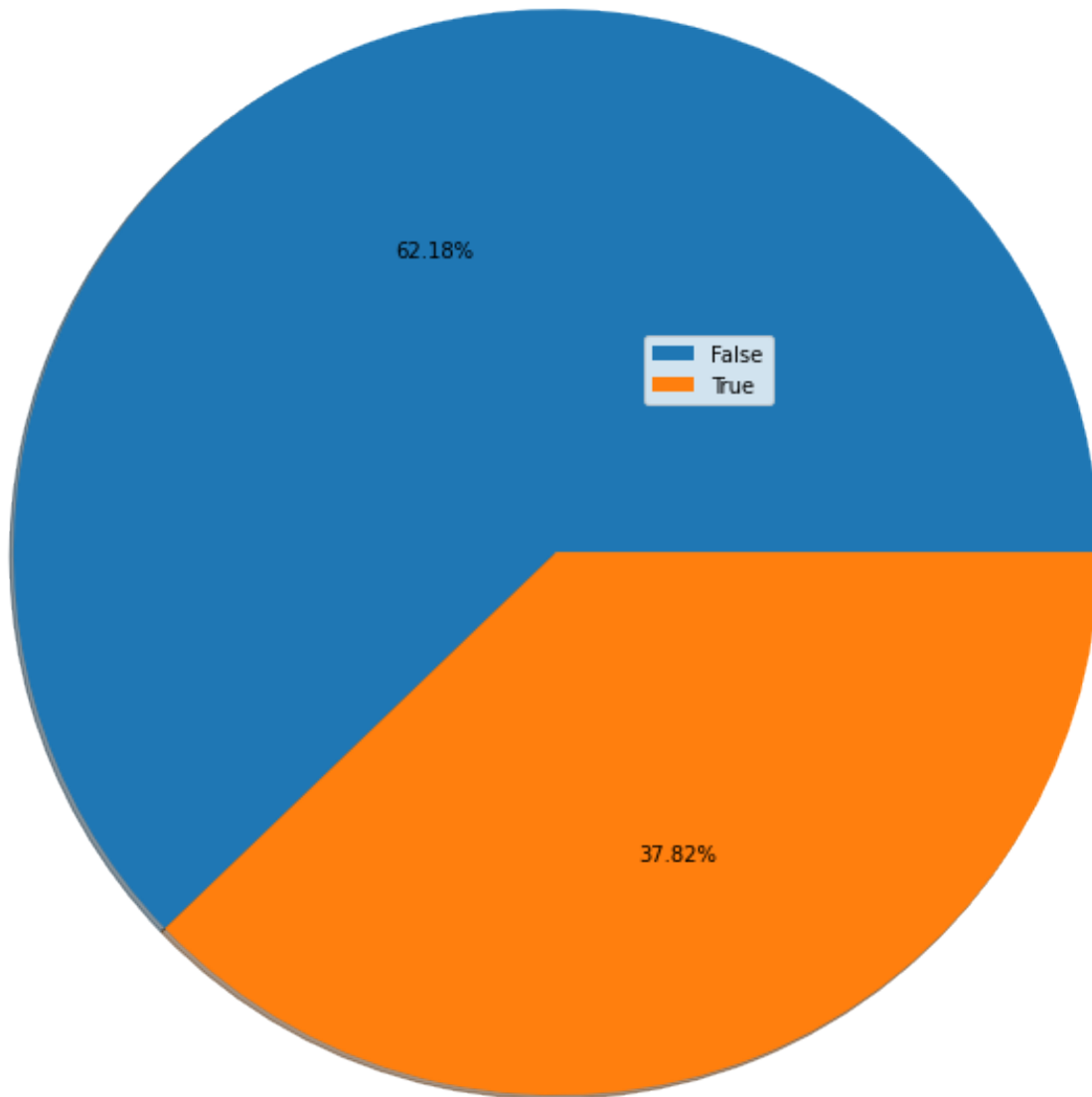
202	B07L6TLXH9	1	202.9	0.1	202.9	
203	B00IORIAH6	88	202.1	0.1	2.3	
204	B01IQH6BSI	13	198.9	0.1	15.3	
205	B006RMW62A	52	198.1	0.1	3.8	
206	B004IF9V1W	28	198.0	0.1	7.1	
207	B019S92S0S	9	198.0	0.1	22.0	
208	B000HSATRO	46	197.9	0.1	4.3	
209	B079QM8MNC	33	197.8	0.1	6.0	
210	B000GVD0VE	29	195.4	0.1	6.7	
211	B07MGZ8YFQ	16	195.3	0.1	12.2	
212	B011A04BDQ	34	193.0	0.1	5.7	
213	B006B242YG	4	192.9	0.1	48.2	
214	B004FGTH5Y	56	190.7	0.1	3.4	
215	B06XH6MHLY	56	190.2	0.1	3.4	
216	B00HJUKC0C	17	189.3	0.1	11.1	
217	B07T89R78B	5	188.9	0.1	37.8	
218	B00SK1R6QM	2	188.4	0.1	94.2	
219	B000HS6MX0	40	187.7	0.1	4.7	
220	B07329WT8F	37	186.1	0.1	5.0	
221	B079V3XSL3	42	185.9	0.1	4.4	
222	B005DUN1IA	55	185.8	0.1	3.4	
223	B006FV30DM	4	185.6	0.1	46.4	
224	B07HNKFPMB	58	185.5	0.1	3.2	
225	B004N03LKA	70	184.5	0.1	2.6	
+-----+-----+-----+-----+-----+-----+						

Profit by product types. 7 product types 75.0 % of profit



	Product Type	count	sum	percent %	mean \$
0	TOTAL	17115	179557.5	100.0	10.5
1	powersportspart	6062	46454.3	25.9	7.7
2	OTHERS	95	42642.1	23.7	448.9
3	autoaccessorymisc	4071	30005.3	16.7	7.4
4	vehicletire	1820	29827.5	16.6	16.4
5	autopart	1397	11786.1	6.6	8.4
6	hardwarehandle	2252	9872.9	5.5	4.4
7	engineairfilter	1418	8969.4	5.0	6.3

Map used by profit



	map_used	sum	count	percent %	mean \$
0	TOTAL	183966.2	22600.0	100.0	8.1
1	False	114394.8	16150	62.2	7.1
2	True	69571.4	6450	37.8	10.8

Products which are in the TOP200 in both time periods: Jan-June 2020 and Jan-

June 2021

[74] :	asin	sum_item_price_2020	sum_item_price_2021
0	B0039L9HC4	4374.01	1346.46
1	B00BG07I04	4294.59	2868.12
2	B004E5GBJG	4209.27	1796.94
3	B004E2703G	3425.66	5159.06
4	B003072GD0	3321.22	2027.96
5	B011A022Z0	3096.45	3915.12
6	B00RNI4SUA	3013.60	4988.70
7	B01IE4JHX0	2851.74	2096.08
8	B01N9Z10V0	2848.21	1546.92
9	B01N3Y7E48	2580.94	1668.90
10	B00PTVUMPI	2539.88	2997.73
11	B01MYDQQ50	2235.08	1712.39
12	B07FKYM49Z	2191.25	4518.78
13	B000GV5GS0	2088.43	4844.15
14	B00A4BGH02	1836.41	2834.59
15	B005C5AVAC	1829.40	1734.66
16	B07FKRK8VJ	1790.75	1910.62
17	B07MKPR3Y5	1639.66	6149.23
18	B011A082CM	1637.00	2908.53
19	B011A01WOM	1608.06	3651.58
20	B00306SMIO	1549.11	1690.22
21	B003QT26D6	1527.05	5828.91
22	B00SA8IFEC	1477.84	1220.95
23	B01JX961YM	1386.84	3055.13
24	B0797FM2YK	1274.81	4129.50
25	B00IORIAH6	1252.20	1451.39
26	B000WMRVOE	1168.07	2256.56
27	B01MUIOKYI	1114.88	2808.80
28	B011A01JKY	1085.02	3319.83
29	B07ND468J1	1034.45	2072.77
30	B003HC8DGQ	1015.42	2071.20
31	B011A07Z3Y	935.22	1805.76
32	B0045AYCY6	920.76	1110.95
33	B008QS9NEW	911.70	8666.86
34	B07FDK6TL6	908.18	1225.30
35	B07FKXBG69	858.44	1372.17
36	B00SA8IHTK	735.84	1629.48
37	B073QB35LD	697.60	2007.50
38	B01N6PA05B	662.36	3170.50
39	B01M1CHUI0	644.56	1593.59
40	B015R4D870	637.40	3416.50
41	B01MZD90NF	569.82	2999.25
42	B07PQXK6Y3	567.15	7873.59

Distribution by number of items sold Jan-June 2021

```
[75]: <AxesSubplot:xlabel='purchase-date'>
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