## Out[1]:

	vendor_name	model_name	MYCT	MMIN	MMAX	CACH	CHMIN	CHMAX	PRP	ERP
0	adviser	32/60	125	256	6000	256	16	128	198	199
1	amdahl	470v/7	29	8000	32000	32	8	32	269	253
2	amdahl	470v/7a	29	8000	32000	32	8	32	220	253
3	amdahl	470v/7b	29	8000	32000	32	8	32	172	253
4	amdahl	470v/7c	29	8000	16000	32	8	16	132	132

In [11]: comp

Out[11]:

	vendor_name	model_name	MYCT	MMIN	MMAX	CACH	CHMIN	CHMAX	PRP	ERP
0	adviser	32/60	125	256	6000	256	16	128	198	199
1	amdahl	470v/7	29	8000	32000	32	8	32	269	253
2	amdahl	470v/7a	29	8000	32000	32	8	32	220	253
3	amdahl	470v/7b	29	8000	32000	32	8	32	172	253
4	amdahl	470v/7c	29	8000	16000	32	8	16	132	132
204	sperry	80/8	124	1000	8000	0	1	8	42	37
205	sperry	90/80-model-3	98	1000	8000	32	2	8	46	50
206	sratus	32	125	2000	8000	0	2	14	52	41
207	wang	vs-100	480	512	8000	32	0	0	67	47
208	wang	vs-90	480	1000	4000	0	0	0	45	25

209 rows × 10 columns

```
In [9]: comp["vendor_name"].duplicated()
 Out[9]: 0
                 False
                 False
          2
                  True
          3
                  True
          4
                  True
                  . . .
          204
                  True
          205
                  True
          206
                 False
          207
                 False
          208
                  True
          Name: vendor_name, Length: 209, dtype: bool
In [13]: comp[~comp["vendor_name"].duplicated(keep=False)]
Out[13]:
               vendor_name
                             model_name
                                           MYCT
                                                   MMIN
                                                           MMAX
                                                                    CACH
                                                                            CHMIN
                                                                                     CHMAX
                                                                                               PRP
                                                                                                      ERP
            0
                      adviser
                                      32/60
                                               125
                                                       256
                                                               6000
                                                                        256
                                                                                  16
                                                                                           128
                                                                                                  198
                                                                                                         199
           62
                    four-phase
                                   2000/260
                                               125
                                                       512
                                                               1000
                                                                          0
                                                                                   8
                                                                                            20
                                                                                                   36
                                                                                                         19
          137
                                seq.ms/3200
                                                       512
                                                               4000
                                                                          0
                                                                                   8
                                                                                           128
                                                                                                         33
                     microdata
                                               150
                                                                                                   30
```

32

125

2000

8000

0

2

14

52

41

206

sratus

In [20]: comp[~comp["vendor\_name"].duplicated()]

Out[20]:

0 1 10 12 14 16	adviser amdahl apollo basf bti burroughs c.r.d	32/60 470v/7 dn320 7/65 5000 b1955	125 29 400 60 350	256 8000 1000 2000	6000 32000 3000 8000	256 32 0	16 8 1	128 32 2	198 269 38	199 253 23
10 12 14 16	apollo basf bti burroughs	dn320 7/65 5000	400 60	1000	3000					
12 14 16	basf bti burroughs	7/65 5000	60			0	1	2	38	23
14	bti	5000		2000	8000					
16	burroughs		350			65	1	8	92	70
		b1955		64	64	0	1	4	10	15
24	c.r.d		167	524	2000	8	4	15	19	23
		68/10-80	320	128	6000	0	1	12	23	28
30	cdc	cyber:170/750	25	1310	2620	131	12	24	274	102
39	cambex	1636-1	50	1000	4000	8	3	5	26	30
44	dec	decsys:10:1091	133	1000	12000	9	3	12	72	54
50	dg	eclipse:c/350	700	384	8000	0	1	1	24	34
57	formation	f4000/100	800	256	8000	0	1	4	12	34
62	four-phase	2000/260	125	512	1000	0	8	20	36	19
63	gould	concept:32/8705	75	2000	8000	64	1	38	144	75
66	hp	3000/30	90	256	1000	0	3	10	17	18
73	harris	100	300	768	3000	0	6	24	36	23
80	honeywell	dps:6/35	330	1000	3000	0	2	4	16	23
93	ibm	3033:s	57	4000	16000	1	6	12	132	82
125	ipl	4436	50	2000	4000	0	3	6	27	30
131	magnuson	m80/30	100	1000	8000	0	2	6	16	37
137	microdata	seq.ms/3200	150	512	4000	0	8	128	30	33

	vendor_name	model_name	MYCT	MMIN	MMAX	CACH	CHMIN	CHMAX	PRP	ERP
138	nas	as/3000	115	2000	8000	16	1	3	50	46
157	ncr	v8535:ii	112	1000	1000	0	1	4	8	19
170	nixdorf	8890/30	200	1000	2000	0	1	2	25	21
173	perkin-elmer	3205	250	512	4000	0	1	7	25	24
176	prime	50-2250	160	512	4000	2	1	5	30	25
181	siemens	7.521	240	512	1000	8	1	3	6	19
193	sperry	1100/61-h1	116	2000	8000	32	5	28	70	56
206	sratus	32	125	2000	8000	0	2	14	52	41
207	wang	vs-100	480	512	8000	32	0	0	67	47

## In [22]: |# drop\_duplicates method in pandas

comp.drop\_duplicates(subset=["vendor\_name"],keep=False)

## Out[22]:

	vendor_name	model_name	MYCT	MMIN	MMAX	CACH	CHMIN	CHMAX	PRP	ERP
0	adviser	32/60	125	256	6000	256	16	128	198	199
62	four-phase	2000/260	125	512	1000	0	8	20	36	19
137	microdata	seq.ms/3200	150	512	4000	0	8	128	30	33
206	sratus	32	125	2000	8000	0	2	14	52	41

In [21]: # drop\_duplicates method in pandas

comp.drop\_duplicates(subset=["vendor\_name"])

## Out[21]:

	vendor_name	model_name	MYCT	MMIN	MMAX	CACH	CHMIN	CHMAX	PRP	ERP
0	adviser	32/60	125	256	6000	256	16	128	198	199
1	amdahl	470v/7	29	8000	32000	32	8	32	269	253
10	apollo	dn320	400	1000	3000	0	1	2	38	23
12	basf	7/65	60	2000	8000	65	1	8	92	70
14	bti	5000	350	64	64	0	1	4	10	15
16	burroughs	b1955	167	524	2000	8	4	15	19	23
24	c.r.d	68/10-80	320	128	6000	0	1	12	23	28
30	cdc	cyber:170/750	25	1310	2620	131	12	24	274	102
39	cambex	1636-1	50	1000	4000	8	3	5	26	30
44	dec	decsys:10:1091	133	1000	12000	9	3	12	72	54
50	dg	eclipse:c/350	700	384	8000	0	1	1	24	34
57	formation	f4000/100	800	256	8000	0	1	4	12	34
62	four-phase	2000/260	125	512	1000	0	8	20	36	19
63	gould	concept:32/8705	75	2000	8000	64	1	38	144	75
66	hp	3000/30	90	256	1000	0	3	10	17	18
73	harris	100	300	768	3000	0	6	24	36	23
80	honeywell	dps:6/35	330	1000	3000	0	2	4	16	23
93	ibm	3033:s	57	4000	16000	1	6	12	132	82
125	ipl	4436	50	2000	4000	0	3	6	27	30

	vendor_name	model_name	MYCT	MMIN	MMAX	CACH	CHMIN	CHMAX	PRP	ERP
131	magnuson	m80/30	100	1000	8000	0	2	6	16	37
137	microdata	seq.ms/3200	150	512	4000	0	8	128	30	33
138	nas	as/3000	115	2000	8000	16	1	3	50	46
157	ncr	v8535:ii	112	1000	1000	0	1	4	8	19
170	nixdorf	8890/30	200	1000	2000	0	1	2	25	21
173	perkin-elmer	3205	250	512	4000	0	1	7	25	24
176	prime	50-2250	160	512	4000	2	1	5	30	25
181	siemens	7.521	240	512	1000	8	1	3	6	19
193	sperry	1100/61-h1	116	2000	8000	32	5	28	70	56
206	sratus	32	125	2000	8000	0	2	14	52	41
207	wang	vs-100	480	512	8000	32	0	0	67	47