```
In [1]: import pandas as pd
 In [2]: data=pd.read csv("/home/palcement/Downloads/fiat500.csv")
 In [5]: data1=data.loc[data.km>=50000]
 In [6]: data1
 Out[6]:
                       model engine_power age_in_days
                                                           km previous_owners
                                                                                              Ion price
                                                                                     lat
                                                  4658 142228
               2
                    3
                        sport
                                        74
                                                                            1 45.503300 11.417840
                                                                                                   4200
                                        51
                                                       160000
               3
                    4 lounge
                                                  2739
                                                                            1 40.633171 17.634609
                                                                                                   6000
                                                       106880
                                                                            1 41.903221 12.495650
                         pop
                                        73
                                                  3074
                                                                                                   5700
                                                                                         7.682270
               5
                                        74
                                                  3623
                                                         70225
                                                                            1 45.000702
                                                                                                   7900
                         pop
               8
                                        73
                                                         76000
                                                                            1 45.548000 11.549470
                                                                                                   5600
                        sport
                                                  4049
            1533
                 1534
                        sport
                                        51
                                                  3712 115280
                                                                            1 45.069679
                                                                                         7.704920
                                                                                                   5200
                 1535
                                                       112000
                                                                                          8.666870
            1534
                       lounge
                                        74
                                                  3835
                                                                            1 45.845692
                                                                                                   4600
            1535 1536
                                                                                         9.413480
                                        51
                                                  2223
                                                        60457
                                                                            1 45.481541
                                                                                                   7500
                         pop
                                                                                         7.682270
            1536
                 1537
                       lounge
                                        51
                                                  2557
                                                        80750
                                                                            1 45.000702
                                                                                                   5990
            1537 1538
                                        51
                                                  1766
                                                        54276
                                                                            1 40.323410 17.568270
                                                                                                  7900
                         pop
           638 rows × 9 columns
In [14]:
           data2=data.loc[data.km<=50000]</pre>
```

Tn	[15]	13	data2
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	ID	model	engine_power	age_in_days	km	previous_owners	lat	lon	price
0	1	lounge	51	882	25000	1	44.907242	8.61156	8900
1	2	рор	51	1186	32500	1	45.666359	12.24189	8800
6	7	lounge	51	731	11600	1	44.907242	8.61156	10750
7	8	lounge	51	1521	49076	1	41.903221	12.49565	9190
10	11	pop	51	790	43286	1	40.871429	14.43896	8950
1525	1526	lounge	51	790	41870	1	45.707249	11.47760	9500
1526	1527	lounge	51	1705	23600	1	38.122070	13.36112	9300
1527	1528	pop	51	517	3000	1	40.748241	14.52835	9999
1529	1530	lounge	51	731	22551	1	38.122070	13.36112	9900
1530	1531	lounge	51	670	29000	1	45.764648	8.99450	10800

907 rows × 9 columns

In [24]: data2.groupby(['model']).count()

Out[24]:

		ID	engine_power	age_in_days	km	previous_owners	lat	lon	price
n	nodel								
lo	unge	1094	1094	1094	1094	1094	1094	1094	1094
	рор	358	358	358	358	358	358	358	358
:	sport	86	86	86	86	86	86	86	86

In [19]: data2=data2.rename(columns={'engine_power':'engine'})

In [20]: data2

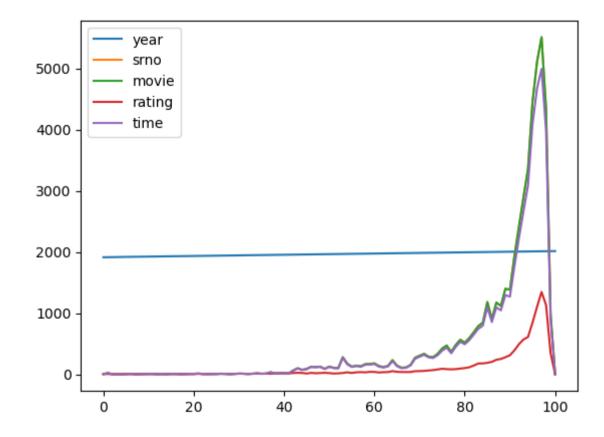
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(1)	117	1 71	4 I •
U	uL	L∠۱	<i>.</i>

	ID	model	engine	age_in_days	km	previous_owners	lat	lon	price
0	1	lounge	51	882	25000	1	44.907242	8.61156	8900
1	2	pop	51	1186	32500	1	45.666359	12.24189	8800
6	7	lounge	51	731	11600	1	44.907242	8.61156	10750
7	8	lounge	51	1521	49076	1	41.903221	12.49565	9190
10	11	pop	51	790	43286	1	40.871429	14.43896	8950
1525	1526	lounge	51	790	41870	1	45.707249	11.47760	9500
1526	1527	lounge	51	1705	23600	1	38.122070	13.36112	9300
1527	1528	pop	51	517	3000	1	40.748241	14.52835	9999
1529	1530	lounge	51	731	22551	1	38.122070	13.36112	9900
1530	1531	lounge	51	670	29000	1	45.764648	8.99450	10800

907 rows × 9 columns

```
In [23]: import pandas as pd
import matplotlib.pyplot as plt
df = pd.read_csv('movies.csv')
df.plot()
# plt.show()
```

Out[23]: <Axes: >



In [25]: # data.groupby(['model']).count()

Out[25]:

	ID	engine_power	age_in_days	km	previous_owners	lat	lon	price
model								
lounge	1094	1094	1094	1094	1094	1094	1094	1094
рор	358	358	358	358	358	358	358	358
sport	86	86	86	86	86	86	86	86

In [31]: data.drop(['model'],axis=1)

Out[31]:

	ID	engine_power	age_in_days	km	previous_owners	lat	lon	price
0	1	51	882	25000	1	44.907242	8.611560	8900
1	2	51	1186	32500	1	45.666359	12.241890	8800
2	3	74	4658	142228	1	45.503300	11.417840	4200
3	4	51	2739	160000	1	40.633171	17.634609	6000
4	5	73	3074	106880	1	41.903221	12.495650	5700
1533	1534	51	3712	115280	1	45.069679	7.704920	5200
1534	1535	74	3835	112000	1	45.845692	8.666870	4600
1535	1536	51	2223	60457	1	45.481541	9.413480	7500
1536	1537	51	2557	80750	1	45.000702	7.682270	5990
1537	1538	51	1766	54276	1	40.323410	17.568270	7900

1538 rows × 8 columns

In [27]: data1=pd.read_csv("/home/palcement/Downloads/fiat500.csv")