

```
In [1]: import pandas as pd
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In [2]: data=pd.read_csv("/home/placement/Downloads/fiat500.csv")
```

```
In [15]: data1=data.loc[(data.km<=50000)]
```

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In [16]: data1
```

```
Out[16]:
```

	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	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 [21]: data1=data.groupby(['model']).count()
```

In [22]: data1

Out[22]:

	ID	engine_power	age_in_days	km	previous_owners	lat	lon	price
<b>model</b>								
<b>lounge</b>	1094	1094	1094	1094	1094	1094	1094	1094
<b>pop</b>	358	358	358	358	358	358	358	358
<b>sport</b>	86	86	86	86	86	86	86	86

In [34]: data1=data1.rename(columns={'model\_name':'model'})  
list(data1)

Out[34]: ['ID', 'engine', 'age\_in\_days', 'km', 'previous\_owners', 'lat', 'lon', 'price']

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In [32]: data1=data1.rename(columns={'engine\_power':'engine'})  
list(data1)

Out[32]: ['ID', 'engine', 'age\_in\_days', 'km', 'previous\_owners', 'lat', 'lon', 'price']

In [35]: data1

Out[35]:

	ID	engine	age_in_days	km	previous_owners	lat	lon	price
<b>model</b>								
<b>lounge</b>	1094	1094	1094	1094	1094	1094	1094	1094
<b>pop</b>	358	358	358	358	358	358	358	358
<b>sport</b>	86	86	86	86	86	86	86	86

```
In [42]: data=data.groupby(['model']).count()
```

```
In [44]: data1
```

```
Out[44]:
```

	ID	engine	age_in_days	km	previous_owners	lat	lon	price
<b>model</b>								
<b>lounge</b>	1094	1094	1094	1094	1094	1094	1094	1094
<b>pop</b>	358	358	358	358	358	358	358	358
<b>sport</b>	86	86	86	86	86	86	86	86

```
In [ ]:
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