```
In [1]: import pandas as pd
```

IMPORT AND PRINT DATA SET

<pre>data = pd.read_csv("vehicle.csv") data</pre>								
	ID	model	engine_power	age_in_days	km	previous_owners	lat	
0	1.0	lounge	51.0	882.0	25000.0	1.0	44.907242	8.611559
1	2.0	pop	51.0	1186.0	32500.0	1.0	45.666359	12.24188
2	3.0	sport	74.0	4658.0	142228.0	1.0	45.503300	11.41
3	4.0	lounge	51.0	2739.0	160000.0	1.0	40.633171	17.63460
4	5.0	pop	73.0	3074.0	106880.0	1.0	41.903221	12.49565
1544	NaN	NaN	NaN	NaN	NaN	NaN	NaN	le
1545	NaN	NaN	NaN	NaN	NaN	NaN	NaN	со
1546	NaN	NaN	NaN	NaN	NaN	NaN	NaN	Null va
1547	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
1548	NaN	NaN	NaN	NaN	NaN	NaN	NaN	sea

SHAPE

```
In [3]: hand/data
```

Out[3]: (1549, 11)

SIZE

```
In [4]: [maiso(data)
```

Out[4]: 17039

PRINT FIRST 10 VALUES

In [5]: data hand(10)

Out[5]:

	ID	model	engine_power	age_in_days	km	previous_owners	lat	lon
0	1.0	lounge	51.0	882.0	25000.0	1.0	44.907242	8.611559868
1	2.0	pop	51.0	1186.0	32500.0	1.0	45.666359	12.24188995
2	3.0	sport	74.0	4658.0	142228.0	1.0	45.503300	11.41784
3	4.0	lounge	51.0	2739.0	160000.0	1.0	40.633171	17.63460922
4	5.0	pop	73.0	3074.0	106880.0	1.0	41.903221	12.49565029
5	6.0	pop	74.0	3623.0	70225.0	1.0	45.000702	7.68227005
6	7.0	lounge	51.0	731.0	11600.0	1.0	44.907242	8.611559868
7	8.0	lounge	51.0	1521.0	49076.0	1.0	41.903221	12.49565029
8	9.0	sport	73.0	4049.0	76000.0	1.0	45.548000	11.54946995
9	10.0	sport	51.0	3653.0	89000.0	1.0	45.438301	10.99170017

PRINT LAST 7 VALUES

In [6]: --------

Out[6]:

	ID	model	engine_power	age_in_days	km	previous_owners	lat	lon	price	Uı
1544	NaN	NaN	NaN	NaN	NaN	NaN	NaN	length	5	
1545	NaN	NaN	NaN	NaN	NaN	NaN	NaN	concat	Ionprice	
1546	NaN	NaN	NaN	NaN	NaN	NaN	NaN	Null values	NO	
1547	NaN	NaN	NaN	NaN	NaN	NaN	NaN	find	1	
1548	NaN	NaN	NaN	NaN	NaN	NaN	NaN	search	1	

DESCRIPTION OF TABLE

In [7]: data dassaiba()

Out[7]:

	ID	engine_power	age_in_days	km	previous_owners	lat	•
count	1538.000000	1538.000000	1538.000000	1538.000000	1538.000000	1538.000000	_
mean	769.500000	51.904421	1650.980494	53396.011704	1.123537	43.541361	
std	444.126671	3.988023	1289.522278	40046.830723	0.416423	2.133518	
min	1.000000	51.000000	366.000000	1232.000000	1.000000	36.855839	
25%	385.250000	51.000000	670.000000	20006.250000	1.000000	41.802990	
50%	769.500000	51.000000	1035.000000	39031.000000	1.000000	44.394096	
75%	1153.750000	51.000000	2616.000000	79667.750000	1.000000	45.467960	
max	1538.000000	77.000000	4658.000000	235000.000000	4.000000	46.795612	

FIND NULL VALUES

In [8]: \\ \data \

Out[8]:

	ID	model	engine_power	age_in_days	km	previous_owners	lat	lon	price	Un
0	False	False	False	False	False	False	False	False	False	
1	False	False	False	False	False	False	False	False	False	
2	False	False	False	False	False	False	False	False	False	
3	False	False	False	False	False	False	False	False	False	
4	False	False	False	False	False	False	False	False	False	
1544	True	True	True	True	True	True	True	False	False	
1545	True	True	True	True	True	True	True	False	False	
1546	True	True	True	True	True	True	True	False	False	
1547	True	True	True	True	True	True	True	False	False	
1548	True	True	True	True	True	True	True	False	False	

1549 rows × 11 columns

FILL NULL VALUES

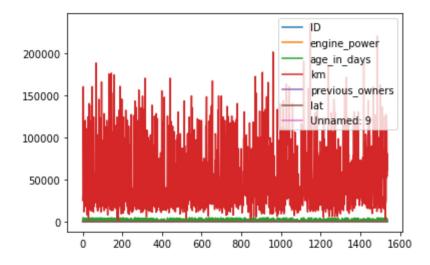
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```
data fillma/1)
 In [9]:
 Out[9]:
                  ID model engine_power age_in_days
                                                              km previous_owners
                                                                                          lat
                                                                                                      lo
               0 1.0
                                      51.0
                                                         25000.0
                                                                                   44.907242 8.61155986
                      lounge
                                                  882.0
                                                                               1.0
                 2.0
                                                          32500.0
                                                                                   45.666359 12.2418899
                                      51.0
                                                 1186.0
                         pop
                 3.0
                        sport
                                      74.0
                                                 4658.0
                                                         142228.0
                                                                                   45.503300
                                                                                                 11.4178
                 4.0
                      lounge
                                      51.0
                                                 2739.0
                                                         160000.0
                                                                               1.0
                                                                                   40.633171 17.6346092
                                                 3074.0
                                                         106880.0
                                                                                   41.903221 12.4956502
                 5.0
                                      73.0
                         pop
                                                                                    1.000000
                 1.0
                                       1.0
            1544
                           1
                                                    1.0
                                                              1.0
                                                                               1.0
                                                                                                   leng
            1545
                                       1.0
                                                    1.0
                                                              1.0
                                                                               1.0
                                                                                    1.000000
                                                                                                   conc
            1546 1.0
                           1
                                       1.0
                                                    1.0
                                                              1.0
                                                                               1.0
                                                                                    1.000000
                                                                                                Null value
            1547 1.0
                                       1.0
                                                    1.0
                                                              1.0
                                                                               1.0
                                                                                    1.000000
                                                                                                      fir
            1548 1.0
                           1
                                       1.0
                                                    1.0
                                                              1.0
                                                                               1.0
                                                                                    1.000000
                                                                                                   searc
           1549 rows × 11 columns
In [12]: data calumna
Out[12]: Index(['ID', 'model', 'engine_power', 'age_in_days', 'km', 'previous_owners',
                   'lat', 'lon', 'price', 'Unnamed: 9', 'Unnamed: 10'],
                  dtype='object')
In [13]: Lata indov
Out[13]: RangeIndex(start=0, stop=1549, step=1)
```

LINE PLOT

```
In [27]: data plat line()
```

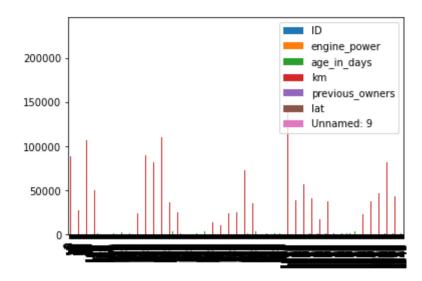
Out[27]: <AxesSubplot:>



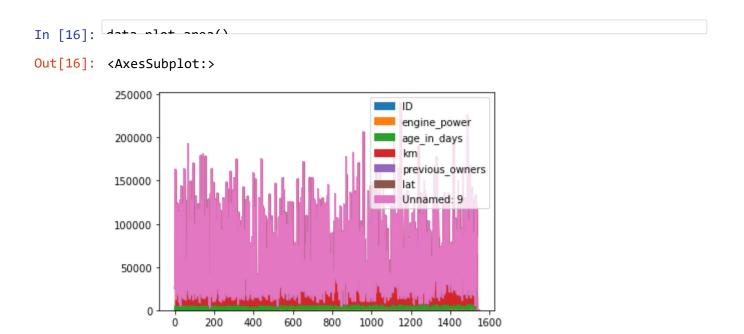
BAR CHART

In [15]: data mlat han/

Out[15]: <AxesSubplot:>



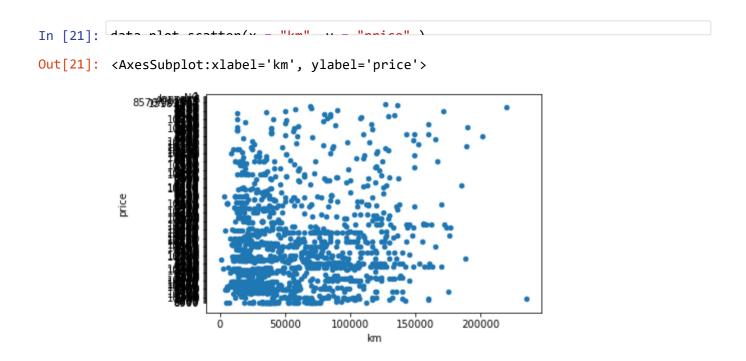
AREA CHART



BOX PLOT

ID engine_powe_in_days kmprevious_ownerslat Unnamed: 9

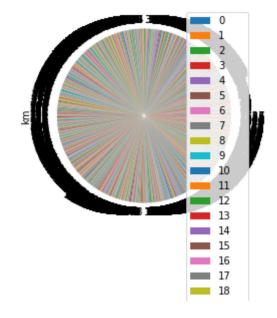
SCATTER PLOT



PIE CHART

```
In [26]: data min/w "km"\
```

Out[26]: <AxesSubplot:ylabel='km'>



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