```
import pandas as pd
 In [1]:
 In [6]:
           df = pd.read_csv(r'C:\Users\Nitika\Downloads\CAR DETAILS FROM CAR DEKHO.csv')
           df
 In [7]:
                                                  selling price km driven
 Out[7]:
                                      name
                                             year
                                                                             fuel
                                                                                  seller_type transmission
                                                                                                            owner
                                                                                                              First
              0
                               Maruti 800 AC
                                            2007
                                                         60000
                                                                    70000
                                                                           Petrol
                                                                                    Individual
                                                                                                    Manual
                                                                                                            Owner
                                                                                                              First
                                                        135000
                                                                                    Individual
                     Maruti Wagon R LXI Minor
                                            2007
                                                                    50000
                                                                           Petrol
                                                                                                    Manual
                                                                                                             Owner
                                                                                                              First
              2
                        Hyundai Verna 1.6 SX 2012
                                                        600000
                                                                   100000
                                                                           Diesel
                                                                                    Individual
                                                                                                    Manual
                                                                                                             Owner
                                                                                                              First
                                                        250000
              3
                      Datsun RediGO T Option 2017
                                                                    46000
                                                                           Petrol
                                                                                    Individual
                                                                                                    Manual
                                                                                                             Owner
                                                                                                            Second
                                                        450000
                                                                                    Individual
              4
                     Honda Amaze VX i-DTEC
                                                                   141000
                                                                           Diesel
                                                                                                    Manual
                                                                                                            Owner
                  Hyundai i20 Magna 1.4 CRDi
                                                                                                            Second
                                            2014
           4335
                                                        409999
                                                                    80000
                                                                           Diesel
                                                                                    Individual
                                                                                                    Manual
                                                                                                            Owner
                                                                                                            Second
           4336
                  Hyundai i20 Magna 1.4 CRDi
                                                        409999
                                                                           Diesel
                                                                                    Individual
                                                                                                    Manual
                                            2014
                                                                    80000
                                                                                                            Owner
                                                                                                            Second
           4337
                                            2009
                                                                           Petrol
                          Maruti 800 AC BSIII
                                                        110000
                                                                    83000
                                                                                    Individual
                                                                                                    Manual
                                                                                                            Owner
                    Hyundai Creta 1.6 CRDi SX
                                                                                                              First
                                             2016
           4338
                                                        865000
                                                                    90000
                                                                           Diesel
                                                                                    Individual
                                                                                                    Manual
                                     Option
                                                                                                            Owner
                                                                                                              First
           4339
                           Renault KWID RXT 2016
                                                        225000
                                                                           Petrol
                                                                                    Individual
                                                                    40000
                                                                                                    Manual
                                                                                                             Owner
          4340 rows × 8 columns
           df['km_driven'].max()
 In [8]:
           806599
 Out[8]:
In [12]:
           df[df['km_driven']==df['km_driven'].max()]['name']
                     Maruti Swift VXI BSIII
Out[12]:
           Name: name, dtype: object
In [14]:
           df[df['km_driven']==df['km_driven'].min()]['name']
                     Mahindra Quanto C6
Out[14]:
           Name: name, dtype: object
           df[df['name'] == 'Maruti 800 AC'].shape[0]
In [31]:
           23
Out[31]:
In [32]:
           df[df['name']== 'Maruti 800 AC'][['fuel','transmission']]
```

	13	Petrol	Manual
	175	Petrol	Manual
	259	Petrol	Manual
	372	Petrol	Manual
	402	Petrol	Manual
	669	Petrol	Manual
	1284	Petrol	Manual
	1446	Petrol	Manual
	1726	Petrol	Manual
	3181	Petrol	Manual
	3215	Petrol	Manual
	3217	Petrol	Manual
	3259	Petrol	Manual
	3285	Petrol	Manual
	3314	Petrol	Manual
	3503	Petrol	Manual
	3630	Petrol	Manual
	3652	Petrol	Manual
	3740	Petrol	Manual
	3856	Petrol	Manual
	4088	Petrol	Manual
	4323	Petrol	Manual
[70]:	df[d	f['name']=	='Toyota
[70]:	12 25	1650000 1650000	

In [42]: **df**

Name: selling_price, dtype: int64

 ${\tt Out[32]:} \qquad \qquad {\tt fuel} \quad {\tt transmission}$ **0** Petrol

Manual

Out[42]:		name	year	selling_price	km_driven	fuel	seller_type	transmission	owner			
	0	Maruti 800 AC	2007	60000	70000	Petrol	Individual	Manual	First Owner			
	1	Maruti Wagon R LXI Minor	2007	135000	50000	Petrol	Individual	Manual	First Owner			
	2	Hyundai Verna 1.6 SX	2012	600000	100000	Diesel	Individual	Manual	First Owner			
	3	Datsun RediGO T Option	2017	250000	46000	Petrol	Individual	Manual	First Owner			
	4	Honda Amaze VX i-DTEC	2014	450000	141000	Diesel	Individual	Manual	Second Owner			
	4335	Hyundai i20 Magna 1.4 CRDi (Diesel)	2014	409999	80000	Diesel	Individual	Manual	Second Owner			
	4336	Hyundai i20 Magna 1.4 CRDi	2014	409999	80000	Diesel	Individual	Manual	Second Owner			
	4337	Maruti 800 AC BSIII	2009	110000	83000	Petrol	Individual	Manual	Second Owner			
	4338	Hyundai Creta 1.6 CRDi SX Option	2016	865000	90000	Diesel	Individual	Manual	First Owner			
	4339	Renault KWID RXT	2016	225000	40000	Petrol	Individual	Manual	First Owner			
	4340 rows × 8 columns df[df['owner']== 'First Owner']['name']											
In [60]:	uitui	[Owner]— First Own	er][-								
Out[60]:	0 1		Maru	Maru ti Wagon R	ti 800 AC LXI Minor							
	2			Hyundai Ver	na 1.6 SX							
	3 5			tsun RediGO Maruti Alto	•							
	4324			Maruti Alto								
	4332 4334	Mah Toyota Innova 2.5 V		Scorpio S2 esel) 8 Sea								
	4338			a 1.6 CRDi	SX Option							
	4339 Name:	name, Length: 2832, d	type:		KWID RXT							
In [71]:	df[df	['owner']=='First Owne	r']['	name']								
Out[71]:	0			Maru	ti 800 AC							

```
In [71]:
Out[71]:
                                      Maruti Wagon R LXI Minor
         2
                                          Hyundai Verna 1.6 SX
         3
                                        Datsun RediGO T Option
         5
                                          Maruti Alto LX BSIII
         4324
                                          Maruti Alto 800 Base
         4332
                                  Mahindra Scorpio S2 7 Seater
         4334
                 Toyota Innova 2.5 VX (Diesel) 8 Seater BS IV
         4338
                              Hyundai Creta 1.6 CRDi SX Option
         4339
                                              Renault KWID RXT
         Name: name, Length: 2832, dtype: object
         df[df['transmission']=='Automatic']['name']
In [85]:
```

```
12
                          Toyota Corolla Altis 1.8 VL CVT
Out[85]:
         25
                          Toyota Corolla Altis 1.8 VL CVT
         29
                               Jaguar XF 2.2 Litre Luxury
         30
                     Mercedes-Benz New C-Class 220 CDI AT
                        Maruti Vitara Brezza ZDi Plus AMT
         31
         4300
                  Mercedes-Benz E-Class E250 CDI Elegance
         4302
                                       BMW 7 Series 730Ld
         4304
                       Audi Q5 3.0 TDI Quattro Technology
         4311
                                  Toyota Camry Hybrid 2.5
         4313
                       Ford Endeavour 2.2 Titanium AT 4X2
         Name: name, Length: 448, dtype: object
In [86]:
         df[df['transmission']=='Manual']['name']
                                         Maruti 800 AC
Out[86]:
         1
                             Maruti Wagon R LXI Minor
         2
                                 Hyundai Verna 1.6 SX
         3
                               Datsun RediGO T Option
         4
                                Honda Amaze VX i-DTEC
         4335
                 Hyundai i20 Magna 1.4 CRDi (Diesel)
         4336
                           Hyundai i20 Magna 1.4 CRDi
         4337
                                  Maruti 800 AC BSIII
         4338
                     Hyundai Creta 1.6 CRDi SX Option
         4339
                                     Renault KWID RXT
         Name: name, Length: 3892, dtype: object
         df[df['seller_type']=='Dealer']['name']
In [90]:
                     Toyota Corolla Altis 1.8 VL CVT
Out[90]:
         25
                     Toyota Corolla Altis 1.8 VL CVT
         26
                                Maruti Ciaz VXi Plus
         27
                         Hyundai Venue SX Opt Diesel
         29
                          Jaguar XF 2.2 Litre Luxury
         4304
                 Audi Q5 3.0 TDI Quattro Technology
         4306
                              Hyundai i10 Sportz 1.2
         4309
                                    Datsun GO Plus T
         4310
                     Renault Duster 110PS Diesel RxL
         4311
                             Toyota Camry Hybrid 2.5
         Name: name, Length: 994, dtype: object
         df[df['seller_type']=='Individual']['name']
In [91]:
                                        Maruti 800 AC
Out[91]:
         1
                             Maruti Wagon R LXI Minor
         2
                                 Hyundai Verna 1.6 SX
         3
                               Datsun RediGO T Option
         4
                                Honda Amaze VX i-DTEC
         4335
                 Hyundai i20 Magna 1.4 CRDi (Diesel)
         4336
                           Hyundai i20 Magna 1.4 CRDi
         4337
                                  Maruti 800 AC BSIII
         4338
                     Hyundai Creta 1.6 CRDi SX Option
         4339
                                     Renault KWID RXT
         Name: name, Length: 3244, dtype: object
         df[df['fuel']=='Petrol']['name']
In [92]:
```

```
0
                                 Maruti 800 AC
Out[92]:
                      Maruti Wagon R LXI Minor
         3
                        Datsun RediGO T Option
         5
                          Maruti Alto LX BSIII
         6
                    Hyundai Xcent 1.2 Kappa S
         4326
                            Honda City 1.5 GXI
         4327
                                  Tata Nano XM
         4329
                  Tata Manza Aura Safire BS IV
         4337
                           Maruti 800 AC BSIII
         4339
                              Renault KWID RXT
         Name: name, Length: 2123, dtype: object
         df[df['fuel']=='Diesel']['name']
In [93]:
                                          Hyundai Verna 1.6 SX
Out[93]:
                                         Honda Amaze VX i-DTEC
         15
                                          Hyundai Verna 1.6 SX
         17
                                         Honda Amaze VX i-DTEC
         27
                                   Hyundai Venue SX Opt Diesel
         4333
                                                Maruti Ritz VDi
         4334
                 Toyota Innova 2.5 VX (Diesel) 8 Seater BS IV
         4335
                           Hyundai i20 Magna 1.4 CRDi (Diesel)
                                    Hyundai i20 Magna 1.4 CRDi
         4336
         4338
                              Hyundai Creta 1.6 CRDi SX Option
         Name: name, Length: 2153, dtype: object
         df[df['fuel']=='CNG']['name']
In [94]:
```

```
9
                                    Maruti Celerio Green VXI
  Out[94]:
            22
                                    Maruti Celerio Green VXI
            176
                                     Maruti Alto K10 LXI CNG
            351
                                Tata Indigo CS Emax CNG GLX
                     Maruti Eeco 5 STR With AC Plus HTR CNG
            352
            361
                                Hyundai Santro Xing GLS CNG
            664
                            Hyundai Santro Xing GL PLUS CNG
            712
                                       Maruti Ertiga VXI CNG
            824
                                     Maruti Alto 800 CNG LXI
            863
                                      Hyundai Accent GLE CNG
            1138
                                      Maruti Wagon R LXI CNG
                                      Maruti Wagon R LXI CNG
            1140
                                      Hyundai Accent GLE CNG
            1594
            1686
                                      Chevrolet Aveo 1.4 CNG
            1694
                     Maruti Eeco 5 STR With AC Plus HTR CNG
            2013
                           Maruti Alto 800 CNG LXI Optional
            2092
                                      Maruti Wagon R LXI CNG
            2149
                                       Hyundai Santro AT CNG
            2493
                                Maruti Alto Green LXi (CNG)
            2734
                     Maruti Eeco 5 STR With AC Plus HTR CNG
            2785
                              Hyundai Santro Magna CNG BSIV
            2802
                           Maruti Alto K10 LXI CNG Optional
            2974
                          Maruti Zen Estilo LXI Green (CNG)
                                             Maruti Omni CNG
            3014
                           Maruti Eeco CNG 5 Seater AC BSIV
            3048
            3090
                                      Maruti Wagon R CNG LXI
            3112
                           Maruti Eeco CNG 5 Seater AC BSIV
            3190
                                     Maruti Alto 800 LXI CNG
            3464
                                       Maruti Ertiga VXI CNG
            3477
                                      Maruti Wagon R LXI CNG
            3482
                                      Maruti Wagon R LXI CNG
            3723
                                      Maruti Wagon R LXI CNG
            3773
                               Hyundai Accent Executive CNG
            3778
                           Maruti Eeco CNG 5 Seater AC BSIV
            3835
                          Maruti Zen Estilo LXI Green (CNG)
            4001
                                    Maruti Celerio Green VXI
            4063
                     Maruti Eeco 5 STR With AC Plus HTR CNG
            4076
                                       Maruti Ertiga VXI CNG
            4140
                     Maruti Eeco 5 STR With AC Plus HTR CNG
            4152
                               Hyundai Accent Executive CNG
            Name: name, dtype: object
            df[df['fuel']=='Petrol'][['km_driven', 'name']].max()
  In [99]:
            km_driven
                                                         806599
  Out[99]:
                          Volkswagen Vento Petrol Highline AT
            name
            dtype: object
            df[df['fuel']=='Petrol'][['name', 'km_driven']].min()
  In [101...
                           Ambassador Grand 1800 ISZ MPFI PW CL
             name
  Out[101]:
             km_driven
                                                              101
             dtype: object
             df[df['fuel']=='Diesel'][['name', 'km_driven']].max()
  In [102...
                           Volvo XC60 D5 Inscription
             name
  Out[102]:
             km_driven
                                               560000
             dtype: object
  In [103...
             df[df['fuel']=='Diesel'][['name', 'km_driven']].min()
                           Ambassador CLASSIC 1500 DSL AC
             name
  Out[103]:
                                                          1
             km_driven
             <u>dtype: object</u>
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```

```
df[df['fuel']=='CNG'][['name','km_driven']].max()
In [105...
                        Tata Indigo CS Emax CNG GLX
          name
Out[105]:
           km_driven
                                              120000
           dtype: object
          df[df['fuel']=='CNG'][['name', 'km_driven']].min()
In [106...
                        Chevrolet Aveo 1.4 CNG
          name
Out[106]:
           km_driven
                                           4000
           dtype: object
In [109...
          df['name'].replace('Maruti Wagon R LXI Minor', 'nidhi')
                                          Maruti 800 AC
Out[109]:
           1
                                                  nidhi
           2
                                   Hyundai Verna 1.6 SX
           3
                                Datsun RediGO T Option
           4
                                 Honda Amaze VX i-DTEC
           4335
                   Hyundai i20 Magna 1.4 CRDi (Diesel)
           4336
                            Hyundai i20 Magna 1.4 CRDi
           4337
                                   Maruti 800 AC BSIII
           4338
                      Hyundai Creta 1.6 CRDi SX Option
           4339
                                       Renault KWID RXT
          Name: name, Length: 4340, dtype: object
          df.head
In [110...
          <bound method NDFrame.head of</pre>
                                                                                 name year
                                                                                             selling
Out[110]:
           price km_driven \
          0
                                        Maruti 800 AC
                                                       2007
                                                                      60000
                                                                                  70000
          1
                            Maruti Wagon R LXI Minor
                                                       2007
                                                                     135000
                                                                                  50000
           2
                                Hyundai Verna 1.6 SX
                                                       2012
                                                                     600000
                                                                                 100000
           3
                              Datsun RediGO T Option
                                                       2017
                                                                                  46000
                                                                     250000
           4
                               Honda Amaze VX i-DTEC
                                                       2014
                                                                                 141000
                                                                     450000
                                                        . . .
                                                                                    . . .
                                                                        . . .
           . . .
                Hyundai i20 Magna 1.4 CRDi (Diesel)
                                                                     409999
           4335
                                                       2014
                                                                                  80000
                          Hyundai i20 Magna 1.4 CRDi
           4336
                                                       2014
                                                                     409999
                                                                                  80000
           4337
                                                       2009
                                 Maruti 800 AC BSIII
                                                                     110000
                                                                                  83000
           4338
                    Hyundai Creta 1.6 CRDi SX Option
                                                       2016
                                                                     865000
                                                                                  90000
           4339
                                     Renault KWID RXT
                                                       2016
                                                                     225000
                                                                                  40000
                   fuel seller_type transmission
                                                           owner
          0
                 Petrol Individual
                                           Manual
                                                    First Owner
          1
                 Petrol Individual
                                           Manual
                                                    First Owner
           2
                 Diesel Individual
                                           Manual
                                                    First Owner
                 Petrol
                         Individual
           3
                                           Manual
                                                    First Owner
           4
                 Diesel Individual
                                           Manual Second Owner
                                              . . .
                    . . .
           . . .
           4335 Diesel Individual
                                                   Second Owner
                                           Manual
          4336 Diesel Individual
                                           Manual
                                                   Second Owner
          4337
                Petrol Individual
                                           Manual
                                                   Second Owner
           4338
                Diesel Individual
                                           Manual
                                                    First Owner
                Petrol Individual
           4339
                                           Manual
                                                    First Owner
          [4340 rows x 8 columns]>
In [111... df.replace(60000,80000)
```

Out[111]:		name	year	selling_price	km_driven	fuel	seller_type	transmission	owner
	0	Maruti 800 AC	2007	80000	70000	Petrol	Individual	Manual	First Owner
	1	Maruti Wagon R LXI Minor	2007	135000	50000	Petrol	Individual	Manual	First Owner
	2	Hyundai Verna 1.6 SX	2012	600000	100000	Diesel	Individual	Manual	First Owner
	3	Datsun RediGO T Option	2017	250000	46000	Petrol	Individual	Manual	First Owner
	4	Honda Amaze VX i-DTEC	2014	450000	141000	Diesel	Individual	Manual	Second Owner
	4335	Hyundai i20 Magna 1.4 CRDi (Diesel)	2014	409999	80000	Diesel	Individual	Manual	Second Owner
	4336	Hyundai i20 Magna 1.4 CRDi	2014	409999	80000	Diesel	Individual	Manual	Second Owner
	4337	Maruti 800 AC BSIII	2009	110000	83000	Petrol	Individual	Manual	Second Owner
	4338	Hyundai Creta 1.6 CRDi SX Option	2016	865000	90000	Diesel	Individual	Manual	First Owner
	4339	Renault KWID RXT	2016	225000	40000	Petrol	Individual	Manual	First Owner

4340 rows × 8 columns

```
In [115... df[df['fuel']=='Petrol'].shape[0]
```

Out[115]: 212:

```
In [116... df.replace('Petrol','water')
```

Out[116]:		name	year	selling_price	km_driven	fuel	seller_type	transmission	owner
	0	Maruti 800 AC	2007	60000	70000	water	Individual	Manual	First Owner
	1	Maruti Wagon R LXI Minor	2007	135000	50000	water	Individual	Manual	First Owner
	2	Hyundai Verna 1.6 SX	2012	600000	100000	Diesel	Individual	Manual	First Owner
	3	Datsun RediGO T Option	2017	250000	46000	water	Individual	Manual	First Owner
	4	Honda Amaze VX i-DTEC	2014	450000	141000	Diesel	Individual	Manual	Second Owner
	4335	Hyundai i20 Magna 1.4 CRDi (Diesel)	2014	409999	80000	Diesel	Individual	Manual	Second Owner
	4336	Hyundai i20 Magna 1.4 CRDi	2014	409999	80000	Diesel	Individual	Manual	Second Owner
	4337	Maruti 800 AC BSIII	2009	110000	83000	water	Individual	Manual	Second Owner
	4338	Hyundai Creta 1.6 CRDi SX Option	2016	865000	90000	Diesel	Individual	Manual	First Owner
	4339	Renault KWID RXT	2016	225000	40000	water	Individual	Manual	First Owner

4340 rows × 8 columns

Tρ	г	7	7	7	
ΤΠ	L	Τ	Τ	/	

df

Out[117]:		name	year	selling_price	km_driven	fuel	seller_type	transmission	owner
	0	Maruti 800 AC	2007	60000	70000	Petrol	Individual	Manual	First Owner
	1	Maruti Wagon R LXI Minor	2007	135000	50000	Petrol	Individual	Manual	First Owner
	2	Hyundai Verna 1.6 SX	2012	600000	100000	Diesel	Individual	Manual	First Owner
	3	Datsun RediGO T Option	2017	250000	46000	Petrol	Individual	Manual	First Owner
	4	Honda Amaze VX i-DTEC	2014	450000	141000	Diesel	Individual	Manual	Second Owner
	4335	Hyundai i20 Magna 1.4 CRDi (Diesel)	2014	409999	80000	Diesel	Individual	Manual	Second Owner
	4336	Hyundai i20 Magna 1.4 CRDi	2014	409999	80000	Diesel	Individual	Manual	Second Owner
	4337	Maruti 800 AC BSIII	2009	110000	83000	Petrol	Individual	Manual	Second Owner
	4338	Hyundai Creta 1.6 CRDi SX Option	2016	865000	90000	Diesel	Individual	Manual	First Owner
	4339	Renault KWID RXT	2016	225000	40000	Petrol	Individual	Manual	First Owner

4340 rows × 8 columns

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In [118... df.replace('Petrol','water',inplace = True)

In [119... df

Out[119]:

	name	year	selling_price	km_driven	fuel	seller_type	transmission	owner
0	Maruti 800 AC	2007	60000	70000	water	Individual	Manual	First Owner
1	Maruti Wagon R LXI Minor	2007	135000	50000	water	Individual	Manual	First Owner
2	Hyundai Verna 1.6 SX	2012	600000	100000	Diesel	Individual	Manual	First Owner
3	Datsun RediGO T Option	2017	250000	46000	water	Individual	Manual	First Owner
4	Honda Amaze VX i-DTEC	2014	450000	141000	Diesel	Individual	Manual	Second Owner
4335	Hyundai i20 Magna 1.4 CRDi (Diesel)	2014	409999	80000	Diesel	Individual	Manual	Second Owner
4336	Hyundai i20 Magna 1.4 CRDi	2014	409999	80000	Diesel	Individual	Manual	Second Owner
4337	Maruti 800 AC BSIII	2009	110000	83000	water	Individual	Manual	Second Owner
4338	Hyundai Creta 1.6 CRDi SX Option	2016	865000	90000	Diesel	Individual	Manual	First Owner
4339	Renault KWID RXT	2016	225000	40000	water	Individual	Manual	First Owner

4340 rows × 8 columns

In [123... df[df['name']=='Maruti 800 AC']

```
Out[123]:
                          name
                                 year
                                       selling_price
                                                     km_driven
                                                                  fuel
                                                                       seller_type
                                                                                   transmission
                                                                                                               owner
                                                                                                           First Owner
                   Maruti 800 AC
                                 2007
                                              60000
                                                         70000
                                                                 water
                                                                         Individual
                                                                                         Manual
               13
                   Maruti 800 AC
                                 2007
                                              60000
                                                         70000
                                                                 water
                                                                         Individual
                                                                                         Manual
                                                                                                           First Owner
              175
                   Maruti 800 AC 2007
                                              95000
                                                        100000
                                                                 water
                                                                         Individual
                                                                                         Manual
                                                                                                        Second Owner
              259
                   Maruti 800 AC 2002
                                              65000
                                                        100000
                                                                 water
                                                                         Individual
                                                                                         Manual
                                                                                                        Second Owner
                   Maruti 800 AC
                                 2000
                                              60000
                                                         40000
                                                                 water
                                                                         Individual
                                                                                         Manual
                                                                                                          Third Owner
                   Maruti 800 AC
                                 2007
                                             105000
                                                                                                        Second Owner
              402
                                                         60000
                                                                water
                                                                         Individual
                                                                                         Manual
                   Maruti 800 AC
                                             180000
             669
                                 2012
                                                        120000
                                                                 water
                                                                         Individual
                                                                                         Manual
                                                                                                           First Owner
            1284
                   Maruti 800 AC
                                 2002
                                              65000
                                                        100000
                                                                 water
                                                                         Individual
                                                                                         Manual
                                                                                                        Second Owner
                   Maruti 800 AC
                               2002
                                                                         Individual
            1446
                                              80000
                                                         70000
                                                                 water
                                                                                         Manual
                                                                                                        Second Owner
                   Maruti 800 AC
                                 2009
                                             125000
                                                         50000
                                                                 water
                                                                         Individual
                                                                                         Manual
                                                                                                 Fourth & Above Owner
            1726
                   Maruti 800 AC
                                 2013
                                                                         Individual
            3181
                                             100000
                                                         80000
                                                                 water
                                                                                         Manual
                                                                                                           First Owner
                   Maruti 800 AC 2004
            3215
                                              40000
                                                         69111 water
                                                                         Individual
                                                                                         Manual
                                                                                                          Third Owner
                   Maruti 800 AC
                                              80000
                                                        120000
                                                                         Individual
            3217
                                 2007
                                                                 water
                                                                                         Manual
                                                                                                           First Owner
            3259
                   Maruti 800 AC 2007
                                              60000
                                                         70000
                                                                 water
                                                                         Individual
                                                                                         Manual
                                                                                                           First Owner
            3285
                   Maruti 800 AC
                                 2014
                                             225000
                                                         35000
                                                                 water
                                                                         Individual
                                                                                         Manual
                                                                                                           First Owner
            3314
                   Maruti 800 AC 2008
                                              90000
                                                         70000
                                                                 water
                                                                         Individual
                                                                                         Manual
                                                                                                          Third Owner
            3503
                   Maruti 800 AC 2002
                                              80000
                                                         40000
                                                                         Individual
                                                                                                 Fourth & Above Owner
                                                                 water
                                                                                         Manual
                   Maruti 800 AC
                                 2006
                                             100000
                                                         54000
                                                                         Individual
            3630
                                                                 water
                                                                                         Manual
                                                                                                           First Owner
                   Maruti 800 AC 2008
                                              80000
                                                                         Individual
                                                                                                        Second Owner
            3652
                                                         50000
                                                                water
                                                                                         Manual
            3740
                   Maruti 800 AC
                                 2006
                                              55000
                                                         70000
                                                                 water
                                                                         Individual
                                                                                         Manual
                                                                                                        Second Owner
            3856
                   Maruti 800 AC
                                 1999
                                              50000
                                                        100000
                                                                 water
                                                                         Individual
                                                                                         Manual
                                                                                                        Second Owner
                   Maruti 800 AC 2009
            4088
                                             120000
                                                        250000
                                                                         Individual
                                                                                         Manual
                                                                                                        Second Owner
                                                                 water
            4323
                   Maruti 800 AC 2014
                                             195000
                                                         75000 water
                                                                         Individual
                                                                                         Manual
                                                                                                        Second Owner
           df['name'].unique()
In [124...
            array(['Maruti 800 AC', 'Maruti Wagon R LXI Minor',
Out[124]:
                      'Hyundai Verna 1.6 SX', ..., 'Mahindra Verito 1.5 D6 BSIII',
                     'Toyota Innova 2.5 VX (Diesel) 8 Seater BS IV',
                     'Hyundai i20 Magna 1.4 CRDi'], dtype=object)
           df.replace('Maruti Wagon R LXI Minor', 'Maruti 800 AC', inplace = True)
In [125...
           df['name'].unique()
In [126... |
            array(['Maruti 800 AC', 'Hyundai Verna 1.6 SX', 'Datsun RediGO T Option',
Out[126]:
                     ..., 'Mahindra Verito 1.5 D6 BSIII',
                     'Toyota Innova 2.5 VX (Diesel) 8 Seater BS IV',
                     'Hyundai i20 Magna 1.4 CRDi'], dtype=object)
           df[df['name']== 'Maruti 800 AC'][['fuel','transmission']]
In [128...
```

Out[128]:	fuel	transmission
0	water	Manual
1	water	Manual
13	water	Manual
14	water	Manual
113	water	Manual
175	water	Manual
259	water	Manual
275	water	Manual
372	water	Manual
392	water	Manual
402	water	Manual
524	water	Manual
669	water	Manual
697	water	Manual
1174	water	Manual
1284	water	Manual
1321	water	Manual
1446	water	Manual
1555	water	Manual
1726	water	Manual
2010	water	Manual
2638	water	Manual
2774	water	Manual
3033	water	Manual
3104	water	Manual
3181	water	Manual
3215	water	Manual
3217	water	Manual
3259	water	Manual
3285	water	Manual
3314	water	Manual
3450	water	Manual
3468	water	Manual
3502	water	Manual
3503	water	Manual
3573	water	Manual
3630	water	Manual
3652	water	Manual
3740 Loading [MathJax]/jax/outpu	water	Manual nonHTML/fonts/Te

	4088 water	Manual			
	4155 water	Manual			
	4183 water	Manual			
	4323 water	Manual			
In [129	df['fuel'].va	alue_counts()			
Out[129]:	Diesel	2153			
	water	2123			
	CNG	40			
	LPG	23 1			
	Electric	dtype: int64			
	Name. Tuet,	dtype. Into4			
In [132	df['name'].va	alue_counts()			
[a. []	• •			
	Maruti Swift		69		
Out[132]:		t Dzire VDI	69 59		
	Maruti Swift Maruti Alto Maruti 800 <i>A</i>	t Dzire VDI 800 LXI AC	59 47		
	Maruti Swift Maruti Alto Maruti 800 A Maruti Alto	t Dzire VDI 800 LXI AC LXi	59 47 47		
	Maruti Swift Maruti Alto Maruti 800 <i>A</i>	t Dzire VDI 800 LXI AC LXi	59 47		
	Maruti Swift Maruti Alto Maruti 800 A Maruti Alto Maruti Alto	t Dzire VDI 800 LXI AC LXi LX	59 47 47 35		
	Maruti Swift Maruti Alto Maruti 800 A Maruti Alto Maruti Alto	t Dzire VDI 800 LXI AC LXi LX	59 47 47 35 		
	Maruti Swift Maruti Alto Maruti 800 A Maruti Alto Maruti Alto Maruti Swift Toyota Corol	t Dzire VDI 800 LXI AC LXi LX LX t LXI Option lla Altis GL MT	59 47 47 35 1		
	Maruti Swift Maruti Alto Maruti 800 A Maruti Alto Maruti Alto Maruti Swift Toyota Corol Maruti Swift	t Dzire VDI 800 LXI AC LXi LX t LXI Option lla Altis GL MT t Dzire AMT ZXI	59 47 47 35 1 1		
	Maruti Swift Maruti Alto Maruti 800 A Maruti Alto Maruti Alto Maruti Swift Toyota Corol Maruti Swift Mahindra TU	t Dzire VDI 800 LXI AC LXi LX t LXI Option lla Altis GL MT t Dzire AMT ZXI V 300 T8 AMT	59 47 47 35 1 1		
	Maruti Swift Maruti Alto Maruti 800 A Maruti Alto Maruti Alto Maruti Alto Maruti Swift Toyota Corol Maruti Swift Mahindra TUN Hyundai i20	t Dzire VDI 800 LXI AC LXi LX t LXI Option lla Altis GL MT t Dzire AMT ZXI	59 47 47 35 1 1 1		
	Maruti Swift Maruti Alto Maruti 800 A Maruti Alto Maruti Alto Maruti Alto Maruti Swift Toyota Corol Maruti Swift Mahindra TUN Hyundai i20	t Dzire VDI 800 LXI AC LXi LX t LXI Option lla Altis GL MT t Dzire AMT ZXI / 300 T8 AMT Magna 1.4 CRDi	59 47 47 35 1 1 1		
	Maruti Swift Maruti Alto Maruti 800 A Maruti Alto Maruti Alto Maruti Alto Maruti Swift Toyota Corol Maruti Swift Mahindra TUN Hyundai i20	t Dzire VDI 800 LXI AC LXi LX t LXI Option lla Altis GL MT t Dzire AMT ZXI / 300 T8 AMT Magna 1.4 CRDi	59 47 47 35 1 1 1		

fuel transmission

Manual

Manual

Manual

Manual

3856

water

3918 water

4022 water

4050 water