# **EDS PROJECT Activity**

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Batch: G1

```
import pandas as pd
df=pd.read_csv("Eds Python.csv")
print(df)
```

#### output:

```
name year selling_price km_driven fuel \
0
             Maruti 800 AC 2007
                                      60000
                                               70000 Petrol
1
       Maruti Wagon R LXI Minor 2007
                                           135000
                                                     50000 Petrol
2
         Hyundai Verna 1.6 SX 2012
                                        600000
                                                 100000 Diesel
3
        Datsun RediGO T Option 2017
                                          250000
                                                   46000 Petrol
4
         Honda Amaze VX i-DTEC 2014
                                            450000
                                                     141000 Diesel
5
         Maruti Alto LX BSIII 2007
                                                 125000 Petrol
                                        140000
       Hyundai Xcent 1.2 Kappa S 2016
6
                                          550000
                                                    25000 Petrol
       Tata Indigo Grand Petrol 2014
7
                                        240000
                                                  60000 Petrol
       Hyundai Creta 1.6 VTVT S 2015
8
                                          850000
                                                    25000 Petrol
9
       Maruti Celerio Green VXI 2017
                                         365000
                                                   78000 CNG
10
        Chevrolet Sail 1.2 Base 2015
                                        260000
                                                  35000 Petrol
11
        Tata Indigo Grand Petrol 2014
                                         250000
                                                  100000 Petrol
12
    Toyota Corolla Altis 1.8 VL CVT 2018
                                            1650000
                                                       25000 Petrol
13
              Maruti 800 AC 2007
                                      60000
                                               70000 Petrol
14
        Maruti Wagon R LXI Minor 2007
                                            135000
                                                      50000 Petrol
          Hyundai Verna 1.6 SX 2012
15
                                         600000
                                                  100000 Diesel
16
         Datsun RediGO T Option 2017
                                          250000
                                                    46000 Petrol
         Honda Amaze VX i-DTEC 2014
17
                                            450000
                                                      141000 Diesel
18
          Maruti Alto LX BSIII 2007
                                        140000
                                                 125000 Petrol
19
       Hyundai Xcent 1.2 Kappa S 2016
                                           550000
                                                     25000 Petrol
        Tata Indigo Grand Petrol 2014
20
                                         240000
                                                  60000 Petrol
        Hyundai Creta 1.6 VTVT S 2015
21
                                           850000
                                                     25000 Petrol
```

```
22
        Maruti Celerio Green VXI 2017
                                          365000
                                                    78000 CNG
23
        Chevrolet Sail 1.2 Base 2015
                                        260000
                                                  35000 Petrol
24
        Tata Indigo Grand Petrol 2014
                                         250000
                                                  100000 Petrol
25
    Toyota Corolla Altis 1.8 VL CVT 2018
                                             1650000
                                                        25000 Petrol
          Maruti Ciaz VXi Plus 2015
26
                                         585000
                                                   24000 Petrol
27
      Hyundai Venue SX Opt Diesel 2019
                                            1195000
                                                        5000 Diesel
28 Chevrolet Enjoy TCDi LTZ 7 Seater 2013
                                              390000
                                                        33000 Diesel
 seller_type transmission
                            owner
0 Individual
               Manual First Owner
  Individual
               Manual First Owner
  Individual
               Manual First Owner
  Individual
               Manual First Owner
  Individual
               Manual Second Owner
               Manual First Owner
```

2 3 4 5 Individual 6 Individual Manual First Owner 7 Individual Manual Second Owner 8 Individual Manual First Owner Individual Manual First Owner 10 Individual Manual First Owner 11 Individual Manual First Owner 12 Dealer Automatic First Owner 13 Individual Manual First Owner Manual First Owner 14 Individual 15 Individual Manual First Owner 16 Individual Manual First Owner 17 Individual Manual Second Owner 18 Individual Manual First Owner 19 Individual Manual First Owner Manual Second Owner 20 Individual 21 Individual Manual First Owner 22 Individual Manual First Owner 23 Individual Manual First Owner 24 Individual Manual First Owner 25 Dealer Automatic First Owner 26 Dealer Manual First Owner 27 Dealer Manual First Owner

1) Which was the best year for sales? How much was earned that year?

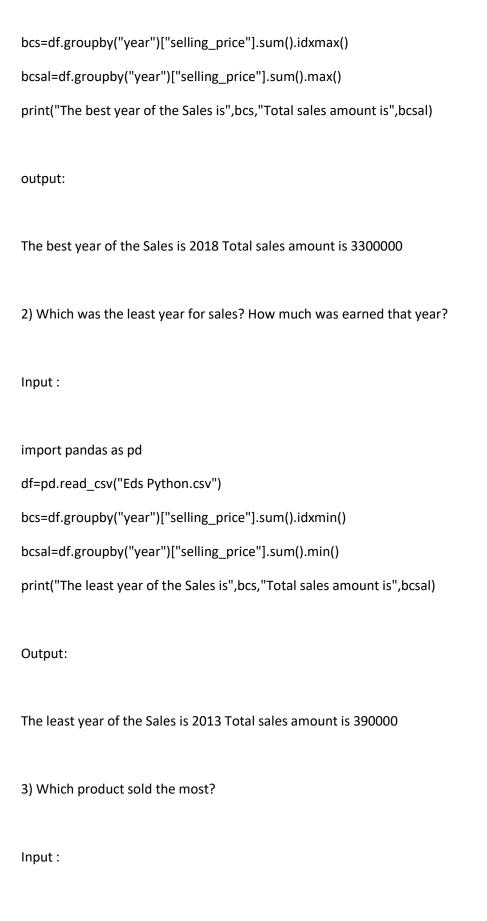
Manual Second Owner

Input:

28 Individual

import pandas as pd

df=pd.read csv("Eds Python.csv")



```
print(mps)
Output :Toyota Corolla Altis 1.8 VL CVT
4) Name of Cars sold in 2007.
Input:
import pandas as pd
df=pd.read_csv("Eds Python.csv")
print(df[df['year']==2007])
Output:
            name year selling_price km_driven fuel \
0
        Maruti 800 AC 2007
                                60000
                                        70000 Petrol
1 Maruti Wagon R LXI Minor 2007
                                     135000
                                               50000 Petrol
5
    Maruti Alto LX BSIII 2007
                                140000
                                         125000 Petrol
        Maruti 800 AC 2007
13
                                60000
                                         70000 Petrol
14 Maruti Wagon R LXI Minor 2007
                                               50000 Petrol
                                     135000
18
     Maruti Alto LX BSIII 2007
                                 140000 125000 Petrol
```

mps=df.groupby("name")["selling\_price"].sum().idxmax()

```
seller_type transmission
                           owner
0 Individual
              Manual First Owner
1 Individual
              Manual First Owner
5 Individual
              Manual First Owner
13 Individual
               Manual First Owner
14 Individual
               Manual First Owner
18 Individual
               Manual First Owner
5) Find the second owner data.
```

# Input:

```
import pandas as pd
df=pd.read_csv("Eds Python.csv")
print(df[df['owner']=='Second Owner'])
```

# Output:

	name year selling_price km_driven fuel \					
4	Honda Amaze VX i-DTEC 2014	450000	141000 Diesel			
7	Tata Indigo Grand Petrol 2014	240000	60000 Petrol			
17	Honda Amaze VX i-DTEC 2014	450000	141000 Diesel			
20	Tata Indigo Grand Petrol 2014	240000	60000 Petrol			
28 Cł	hevrolet Enjoy TCDi LTZ 7 Seater 2013	3900	00 33000 Diese	ا؛		

```
seller_type transmission
                            owner
4 Individual
              Manual Second Owner
7 Individual
              Manual Second Owner
17 Individual
               Manual Second Owner
20 Individual
               Manual Second Owner
28 Individual
               Manual Second Owner
6) Find the car which are sold in 2007 and car is Maruti Wagon R LXI Minor.
Input:
import pandas as pd
df=pd.read_csv("Eds Python.csv")
print(df[(df['name']=='Maruti Wagon R LXI Minor') & (df['year']==2007)])
output:
            name year selling_price km_driven fuel \
1 Maruti Wagon R LXI Minor 2007
                                    135000
                                              50000 Petrol
14 Maruti Wagon R LXI Minor 2007
                                     135000
                                              50000 Petrol
 seller_type transmission
                           owner
```

1 Individual

Manual First Owner

#### 14 Individual Manual First Owner

7) Find car of the type of Diesel.

Input:

import pandas as pd

df=pd.read\_csv("Eds Python.csv")
print(df[(df['fuel']=='Diesel')])

### Output:

name year selling\_price km\_driven fuel \ 2 Hyundai Verna 1.6 SX 2012 600000 100000 Diesel 4 Honda Amaze VX i-DTEC 2014 450000 141000 Diesel Hyundai Verna 1.6 SX 2012 15 600000 100000 Diesel 17 Honda Amaze VX i-DTEC 2014 450000 141000 Diesel 27 Hyundai Venue SX Opt Diesel 2019 5000 Diesel 1195000 28 Chevrolet Enjoy TCDi LTZ 7 Seater 2013 390000 33000 Diesel

seller\_type transmission owner

2 Individual Manual First Owner

4 Individual Manual Second Owner

15 Individual Manual First Owner

```
17 Individual Manual Second Owner
```

27 Dealer Manual First Owner

28 Individual Manual Second Owner

8) Car which driven 100000 km.

Input:

import pandas as pd

df=pd.read\_csv("Eds Python.csv")
print(df[(df['km\_driven']==100000)])

Output:

name year selling\_price km\_driven fuel \

2 Hyundai Verna 1.6 SX 2012 600000 100000 Diesel
 11 Tata Indigo Grand Petrol 2014 250000 100000 Petrol
 15 Hyundai Verna 1.6 SX 2012 600000 100000 Diesel
 24 Tata Indigo Grand Petrol 2014 250000 100000 Petrol

seller\_type transmission owner

2 Individual Manual First Owner

11 Individual Manual First Owner

15 Individual Manual First Owner

24 Individual Manual First Owner							
9) Total sales price of Chevrolet Sail 1.2 Base is.							
Input:							
import pandas as pd							
df=pd.read_csv("Eds Python.csv")							
r1=df.groupby('name')['selling_price'].get_group('Chevrolet Sail 1.2 Base').max()							
print('Total sales Chevrolet Sail 1.2 Base:',r1)							
Output:							
Total sales Chevrolet Sail 1.2 Base: 260000							
10) Find the car with transmission type is Automatic.							
input:							
import pandas as pd							
df=pd.read_csv("Eds Python.csv")							
<pre>print(df[df['transmission']=='Automatic'])</pre>							
Output:							

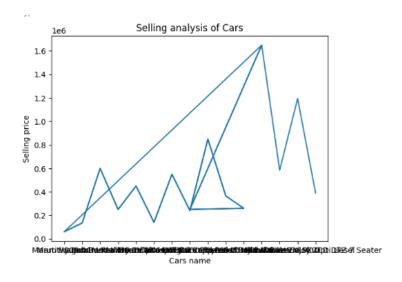
# name year selling\_price km\_driven fuel \

- 12 Toyota Corolla Altis 1.8 VL CVT 2018 1650000 25000 Petrol
- 25 Toyota Corolla Altis 1.8 VL CVT 2018 1650000 25000 Petrol

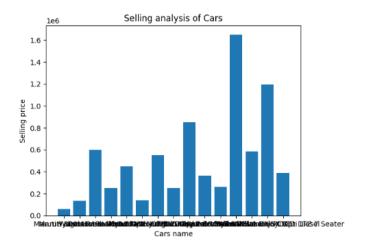
seller\_type transmission owner

- 12 Dealer Automatic First Owner
- 25 Dealer Automatic First Owner

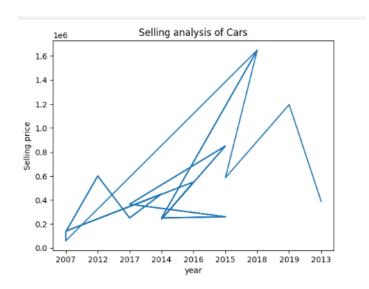
# 11) Selling analysis of Cars by using plot



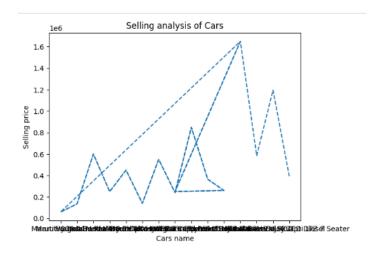
12) Selling analysis of Cars by using bar



# 13) Selling analysis of Cars by using plot by years



14) Selling analysis of Cars by using plot and landstyle type is dashed



# 15) Selling analysis of Cars by using plot by years with bar chart

