janardhan lavhale

f[f2]

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```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.linear_model import LinearRegression
df=pd.read_csv('/content/Housing.csv')
df
```

	area	bedrooms	bathrooms	stories	price
0	7420	4	2	3	13300000
1	8960	4	4	4	12250000
2	9960	3	2	2	12250000
3	7500	4	2	2	12215000
4	7420	4	1	2	11410000
...	...	...	...	...	...
540	3000	2	1	1	1820000
541	2400	3	1	1	1767150
542	3620	2	1	1	1750000
543	2910	3	1	1	1750000
544	3850	3	1	2	1750000

545 rows × 5 columns

```
# Creating the data frame
data = {'Person': ['2016', '2017', '2018', '2019', '2020'],
'Aary': [150, 200, 180, 220, 190],
'Madhy': [210, 230, 240, 250, 200],
'Ankit': [180, 190, 210, 200, 230],
'Shoot': [170, 220, 190, 210, 240]}
df = pd.DataFrame(data)
```

```
# Displaying sales made by each sales person in 2017
sales_2017 = df[['Person', 'Aary', 'Madhy', 'Ankit', 'Shoot']][df['Person'] == '2017']
print("Sales made by each sales person in 2017:")
print(sales_2017)
```

```
Sales made by each sales person in 2017:
  Person  Aary  Madhy  Ankit  Shoot
1   2017   200    230    190    220
```

```
 #Displaying sales made by Madhy and Ankit in 2017 and 2018
sales_2017_2018 = df[['Person', 'Madhy', 'Ankit']][(df['Person'] == '2017') | (df['Person'] == '2018')]
print("\nSales made by Madhy and Ankit in 2017 and 2018:")
print(sales_2017_2018)
```

```
Sales made by Madhy and Ankit in 2017 and 2018:
  Person  Madhy  Ankit
1   2017    230    190
2   2018    240    210
```

```
 #Displaying sales made by Shoot in 2016
sales_2016 = df[['Person', 'Shoot']][df['Person'] == '2016']
```

```
print("\nSales made by Shoot in 2016:")
print(sales_2016)
```

```
Sales made by Shoot in 2016:
  Person  Shoot
0   2016    170
```

```
# Writing sales data to a comma-separated file
df.to_csv('sales.csv', index=False)
```

```
# Reading the data from the file into a data frame
sales = pd.read_csv('sales.csv')
print("\nData frame 'sales' retrieved from the file:")
print(sales)
```

```
Data frame 'sales' retrieved from the file:
   Person  Aary  Madhy  Ankit  Shoot
0    2016   150    210    180    170
1    2017   200    230    190    220
2    2018   180    240    210    190
3    2019   220    250    200    210
4    2020   190    200    230    240
```

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