In [105…

```
#E23CSEU0484
import pandas as pd
df= pd.read_csv("Housing.csv")
print(df.head())
```

```
      price  area  bedrooms  bathrooms  stories mainroad guestroom basement  \
0  13300000  7420         4          2        3      yes        no       no
1  12250000  8960         4          4        4      yes        no       no
2  12250000  9960         3          2        2      yes        no      yes
3  12215000  7500         4          2        2      yes        no      yes
4  11410000  7420         4          1        2      yes       yes      yes

  hotwaterheating airconditioning  parking prefarea furnishingstatus
0              no             yes        2      yes        furnished
1              no             yes        3       no        furnished
2              no              no        2      yes   semi-furnished
3              no             yes        3      yes        furnished
4              no             yes        2       no        furnished
```

In [107…

```
#E23CSEU0484
shape = df.shape
att = df.columns.tolist()
print(shape, att,sep='\n')
```

```
(545, 13)
['price', 'area', 'bedrooms', 'bathrooms', 'stories', 'mainroad', 'guestroom', 'base
ment', 'hotwaterheating', 'airconditioning', 'parking', 'prefarea', 'furnishingstatu
s']
```

In [109…

```
#E23CSEU0484
des = df.describe()
dat_ty = df.dtypes
print(des, dat_ty,sep='\n')
```

```
              price          area    bedrooms   bathrooms     stories  \
count  5.450000e+02    545.000000  545.000000  545.000000  545.000000
mean   4.766729e+06   5150.541284    2.965138    1.286239    1.805505
std    1.870440e+06   2170.141023    0.738064    0.502470    0.867492
min    1.750000e+06   1650.000000    1.000000    1.000000    1.000000
25%    3.430000e+06   3600.000000    2.000000    1.000000    1.000000
50%    4.340000e+06   4600.000000    3.000000    1.000000    2.000000
75%    5.740000e+06   6360.000000    3.000000    2.000000    2.000000
max    1.330000e+07  16200.000000    6.000000    4.000000    4.000000

          parking
count  545.000000
mean     0.693578
std      0.861586
min      0.000000
25%      0.000000
50%      0.000000
75%      1.000000
max      3.000000
price                int64
area                 int64
bedrooms             int64
bathrooms            int64
stories              int64
mainroad            object
guestroom           object
basement            object
hotwaterheating     object
airconditioning     object
parking              int64
prefarea            object
furnishingstatus    object
dtype: object
```

In [111…

```
#E23CSEU0484
new = ['price', 'bedrooms', 'bathrooms', 'stories', 'parking', 'furnishingstatus']
new_df=df[new]
```

In [113…

```
#E23CSEU0484
fur_coun = df['furnishingstatus'].value_counts()
print(fur_coun)
```

```
furnishingstatus
semi-furnished    227
unfurnished       178
furnished         140
Name: count, dtype: int64
```

In [115…

```
#E23CSEU0484
import pandas as pd
df= pd.read_csv("Salaries.csv")
dff_sub = df.iloc[20:51]
print(dff_sub)
```

```
         rank discipline  phd  service     sex  salary
20   AsstProf          B    4        4    Male   92000
21       Prof          A   33       30    Male  103106
22   AsstProf          A    4        2    Male   73000
23   AsstProf          A    2        0    Male   85000
24       Prof          A   30       23    Male   91100
25       Prof          B   35       31    Male   99418
26       Prof          A   38       19    Male  148750
27       Prof          A   45       43    Male  155865
28   AsstProf          B    7        2    Male   91300
29       Prof          B   21       20    Male  123683
30  AssocProf          B    9        7    Male  107008
31       Prof          B   22       21    Male  155750
32       Prof          A   27       19    Male  103275
33       Prof          B   18       18    Male  120000
34  AssocProf          B   12        8    Male  119800
35       Prof          B   28       23    Male  126933
36       Prof          B   45       45    Male  146856
37       Prof          A   20        8    Male  102000
38   AsstProf          B    4        3    Male   91000
39       Prof          B   18       18  Female  129000
40       Prof          A   39       36  Female  137000
41  AssocProf          A   13        8  Female   74830
42   AsstProf          B    4        2  Female   80225
43   AsstProf          B    5        0  Female   77000
44       Prof          B   23       19  Female  151768
45       Prof          B   25       25  Female  140096
46   AsstProf          B   11        3  Female   74692
47  AssocProf          B   11       11  Female  103613
48       Prof          B   17       17  Female  111512
49       Prof          B   17       18  Female  122960
50   AsstProf          B   10        5  Female   97032
```

In [117…

```
#E23CSEU0484
dff_sub = df[['discipline']]
print(dff_sub)
```

```
   discipline
0           B
1           A
2           A
3           A
4           B
..        ...
73          B
74          B
75          B
76          A
77          A

[78 rows x 1 columns]
```

In [119…

```
#E23CSEU0484
uni_ran = df['rank'].unique()
print(uni_ran)
```

```
['Prof' 'AssocProf' 'AsstProf']
```