Code

import numpy as np

import pandas as pd

from scipy import stats

import csv

data1 = pd.read\_csv('/content/sample\_data/california\_housing\_test.csv')

data2 = pd.read\_csv('/content/sample\_data/california\_housing\_train.csv')

print('-------------Total Data-----------')

print(data1) #Data in CSV file

print('----------------------------------')

print('-------------Slicing-----------')

print(pd.DataFrame(data1, columns=['total\_rooms', 'population'])) #Slicing

print('----------------------------------')

print('-------------NE Function-----------')

print(data1.ne(data2))

print('----------------------------------')

print('-------------EQ Function-----------')

print(data1.eq(2995))

print('----------------------------------')

print('-------------EQ Function-----------')

print(data2[:10])

print('----------------------------------')

print('-------------AT Function-----------')

print(data1.at[3, 'housing\_median\_age'])

print('----------------------------------')

print('-------------EQ Function-----------')

print(data1.info())

print('----------------------------------')

Output:

-------------Total Data-----------

longitude latitude housing\_median\_age total\_rooms total\_bedrooms \

0 -122.05 37.37 27.0 3885.0 661.0

1 -118.30 34.26 43.0 1510.0 310.0

2 -117.81 33.78 27.0 3589.0 507.0

3 -118.36 33.82 28.0 67.0 15.0

4 -119.67 36.33 19.0 1241.0 244.0

... ... ... ... ... ...

2995 -119.86 34.42 23.0 1450.0 642.0

2996 -118.14 34.06 27.0 5257.0 1082.0

2997 -119.70 36.30 10.0 956.0 201.0

2998 -117.12 34.10 40.0 96.0 14.0

2999 -119.63 34.42 42.0 1765.0 263.0

population households median\_income median\_house\_value

0 1537.0 606.0 6.6085 344700.0

1 809.0 277.0 3.5990 176500.0

2 1484.0 495.0 5.7934 270500.0

3 49.0 11.0 6.1359 330000.0

4 850.0 237.0 2.9375 81700.0

... ... ... ... ...

2995 1258.0 607.0 1.1790 225000.0

2996 3496.0 1036.0 3.3906 237200.0

2997 693.0 220.0 2.2895 62000.0

2998 46.0 14.0 3.2708 162500.0

2999 753.0 260.0 8.5608 500001.0

[3000 rows x 9 columns]

----------------------------------

-------------Slicing-----------

total\_rooms population

0 3885.0 1537.0

1 1510.0 809.0

2 3589.0 1484.0

3 67.0 49.0

4 1241.0 850.0

... ... ...

2995 1450.0 1258.0

2996 5257.0 3496.0

2997 956.0 693.0

2998 96.0 46.0

2999 1765.0 753.0

[3000 rows x 2 columns]

----------------------------------

-------------NE Function-----------

longitude latitude housing\_median\_age total\_rooms total\_bedrooms \

0 True True True True True

1 True True True True True

2 True True True True True

3 True True True True True

4 True True True True True

... ... ... ... ... ...

16995 True True True True True

16996 True True True True True

16997 True True True True True

16998 True True True True True

16999 True True True True True

population households median\_income median\_house\_value

0 True True True True

1 True True True True

2 True True True True

3 True True True True

4 True True True True

... ... ... ... ...

16995 True True True True

16996 True True True True

16997 True True True True

16998 True True True True

16999 True True True True

[17000 rows x 9 columns]

----------------------------------

-------------EQ Function-----------

longitude latitude housing\_median\_age total\_rooms total\_bedrooms \

0 False False False False False

1 False False False False False

2 False False False False False

3 False False False False False

4 False False False False False

... ... ... ... ... ...

2995 False False False False False

2996 False False False False False

2997 False False False False False

2998 False False False False False

2999 False False False False False

population households median\_income median\_house\_value

0 False False False False

1 False False False False

2 False False False False

3 False False False False

4 False False False False

... ... ... ... ...

2995 False False False False

2996 False False False False

2997 False False False False

2998 False False False False

2999 False False False False

[3000 rows x 9 columns]

----------------------------------

-------------EQ Function-----------

longitude latitude housing\_median\_age total\_rooms total\_bedrooms \

0 -114.31 34.19 15.0 5612.0 1283.0

1 -114.47 34.40 19.0 7650.0 1901.0

2 -114.56 33.69 17.0 720.0 174.0

3 -114.57 33.64 14.0 1501.0 337.0

4 -114.57 33.57 20.0 1454.0 326.0

5 -114.58 33.63 29.0 1387.0 236.0

6 -114.58 33.61 25.0 2907.0 680.0

7 -114.59 34.83 41.0 812.0 168.0

8 -114.59 33.61 34.0 4789.0 1175.0

9 -114.60 34.83 46.0 1497.0 309.0

population households median\_income median\_house\_value

0 1015.0 472.0 1.4936 66900.0

1 1129.0 463.0 1.8200 80100.0

2 333.0 117.0 1.6509 85700.0

3 515.0 226.0 3.1917 73400.0

4 624.0 262.0 1.9250 65500.0

5 671.0 239.0 3.3438 74000.0

6 1841.0 633.0 2.6768 82400.0

7 375.0 158.0 1.7083 48500.0

8 3134.0 1056.0 2.1782 58400.0

9 787.0 271.0 2.1908 48100.0

----------------------------------

-------------AT Function-----------

28.0

----------------------------------

-------------EQ Function-----------

<class 'pandas.core.frame.DataFrame'>

RangeIndex: 3000 entries, 0 to 2999

Data columns (total 9 columns):

# Column Non-Null Count Dtype

--- ------ -------------- -----

0 longitude 3000 non-null float64

1 latitude 3000 non-null float64

2 housing\_median\_age 3000 non-null float64

3 total\_rooms 3000 non-null float64

4 total\_bedrooms 3000 non-null float64

5 population 3000 non-null float64

6 households 3000 non-null float64

7 median\_income 3000 non-null float64

8 median\_house\_value 3000 non-null float64

dtypes: float64(9)

memory usage: 211.1 KB

None

----------------------------------