

```

from google.colab import files
import pandas as pd

files.upload() # select housing.csv

```

```

import pandas as pd

df = pd.read_csv('housing.csv')

```

```
df.info()
```

```

... <class 'pandas.core.frame.DataFrame'>
RangeIndex: 20640 entries, 0 to 20639
Data columns (total 10 columns):
#   Column                Non-Null Count  Dtype
---  -
0   longitude             20640 non-null  float64
1   latitude              20640 non-null  float64
2   housing_median_age    20640 non-null  float64
3   total_rooms           20640 non-null  float64
4   total_bedrooms        20433 non-null  float64
5   population            20640 non-null  float64
6   households            20640 non-null  float64
7   median_income         20640 non-null  float64
8   median_house_value    20640 non-null  float64
9   ocean_proximity       20640 non-null  object
dtypes: float64(9), object(1)
memory usage: 1.6+ MB

```

```
df.head()
```

```

...
  longitude  latitude  housing_median_age  total_rooms  total_bedrooms  population  households  median_income  median_house_value  ocean_proximity
0   -122.23    37.88             41.0         880.0           129.0        322.0         126.0         8.3252         452600.0        NEAR BAY
1   -122.22    37.86             21.0        7099.0          1106.0       2401.0        1138.0         8.3014         358500.0        NEAR BAY
2   -122.24    37.85             52.0        1467.0           190.0         496.0         177.0         7.2574         352100.0        NEAR BAY
3   -122.25    37.85             52.0        1274.0           235.0         558.0         219.0         5.6431         341300.0        NEAR BAY
4   -122.25    37.85             52.0        1627.0           280.0         565.0         259.0         3.8462         342200.0        NEAR BAY

```

Next steps: [Generate code with df](#) [New interactive sheet](#)

```
df.describe()
```

	longitude	latitude	housing_median_age	total_rooms	total_bedrooms	population	households	median_income	median_house_value
count	20640.000000	20640.000000	20640.000000	20640.000000	20433.000000	20640.000000	20640.000000	20640.000000	20640.000000
mean	-119.569704	35.631861	28.639486	2635.763081	537.870553	1425.476744	499.539680	3.870671	206855.816909
std	2.003532	2.135952	12.585558	2181.615252	421.385070	1132.462122	382.329753	1.899822	115395.615874
min	-124.350000	32.540000	1.000000	2.000000	1.000000	3.000000	1.000000	0.499900	14999.000000
25%	-121.800000	33.930000	18.000000	1447.750000	296.000000	787.000000	280.000000	2.563400	119600.000000
50%	-118.490000	34.260000	29.000000	2127.000000	435.000000	1166.000000	409.000000	3.534800	179700.000000
75%	-118.010000	37.710000	37.000000	3148.000000	647.000000	1725.000000	605.000000	4.743250	264725.000000
max	-114.310000	41.950000	52.000000	39320.000000	6445.000000	35682.000000	6082.000000	15.000100	500001.000000

```
df['ocean_proximity'].value_counts()
```

ocean_proximity	count
<1H OCEAN	9136
INLAND	6551
NEAR OCEAN	2658
NEAR BAY	2290
ISLAND	5

dtype: int64

```
df.isnull().sum()[df.isnull().sum() > 0]
```

total_bedrooms	207
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dtype: int64