```python
import pandas as pd

dataset = pd.read_csv(r'./USA_Housing.csv')

print(len(dataset['Address'].unique()))
```

```
5000
```

```python
dataset.head()
```

```
   Avg. Area Income  Avg. Area House Age  Avg. Area Number of Rooms  \
0      79545.458574             5.682861                   7.009188
1      79248.642455             6.002900                   6.730821
2      61287.067179             5.865890                   8.512727
3      63345.240046             7.188236                   5.586729
4      59982.197226             5.040555                   7.839388

   Avg. Area Number of Bedrooms  Area Population         Price  \
0                          4.09     23086.800503  1.059034e+06
1                          3.09     40173.072174  1.505891e+06
2                          5.13     36882.159400  1.058988e+06
3                          3.26     34310.242831  1.260617e+06
4                          4.23     26354.109472  6.309435e+05

                                             Address
0  208 Michael Ferry Apt. 674\nLaurabury, NE 3701...
1  188 Johnson Views Suite 079\nLake Kathleen, CA...
2  9127 Elizabeth Stravenue\nDanieltown, WI 06482...
3                          USS Barnett\nFPO AP 44820
4                         USNS Raymond\nFPO AE 09386
```

```python
dataset = dataset.drop('Address', axis=1)

x = dataset.drop('Price', axis=1)
y = dataset['Price']

x.head()
```

```
   Avg. Area Income  Avg. Area House Age  Avg. Area Number of Rooms  \
0      79545.458574             5.682861                   7.009188
1      79248.642455             6.002900                   6.730821
2      61287.067179             5.865890                   8.512727
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   Avg. Area Number of Bedrooms  Area Population
0                          4.09     23086.800503
1                          3.09     40173.072174
2                          5.13     36882.159400
3                          3.26     34310.242831
4                          4.23     26354.109472
```

```
from sklearn.preprocessing import StandardScaler

scaler = StandardScaler()
x_scaled = scaler.fit_transform(x)

x_scaled

array([[ 1.02865969, -0.29692705,  0.02127433,  0.08806222, -
1.31759867],
       [ 1.00080775,  0.02590164, -0.25550611, -0.72230146,
0.40399945],
       [-0.68462916, -0.11230283,  1.5162435 ,  0.93084045,
0.07240989],
       ...,
       [-0.48723454,  1.28447022, -2.17026949, -1.50025059, -
0.29193658],
       [-0.05459152, -0.44669439,  0.14154061,  1.18205319,
0.65111608],
       [-0.28831272,  0.01521477, -0.19434166,  0.07185495,
1.04162464]])
```