

```
In [42]: housing["rooms_per_household"] = housing["total_rooms"]/housing["households"]
housing["bedrooms_per_room"] = housing["total_bedrooms"]/housing["total_rooms"]
housing["population_per_household"]=housing["population"]/housing["households"]
```

```
In [43]: corr_matrix = housing.corr()
corr_matrix["median_house_value"].sort_values(ascending=False)
```

```
Out[43]: median_house_value      1.000000
median_income      0.687160
rooms_per_household 0.146285
total_rooms        0.135097
housing_median_age  0.114110
households         0.064506
total_bedrooms     0.047689
population_per_household -0.021985
population         -0.026920
longitude          -0.047432
latitude           -0.142724
bedrooms_per_room  -0.259984
Name: median_house_value, dtype: float64
```