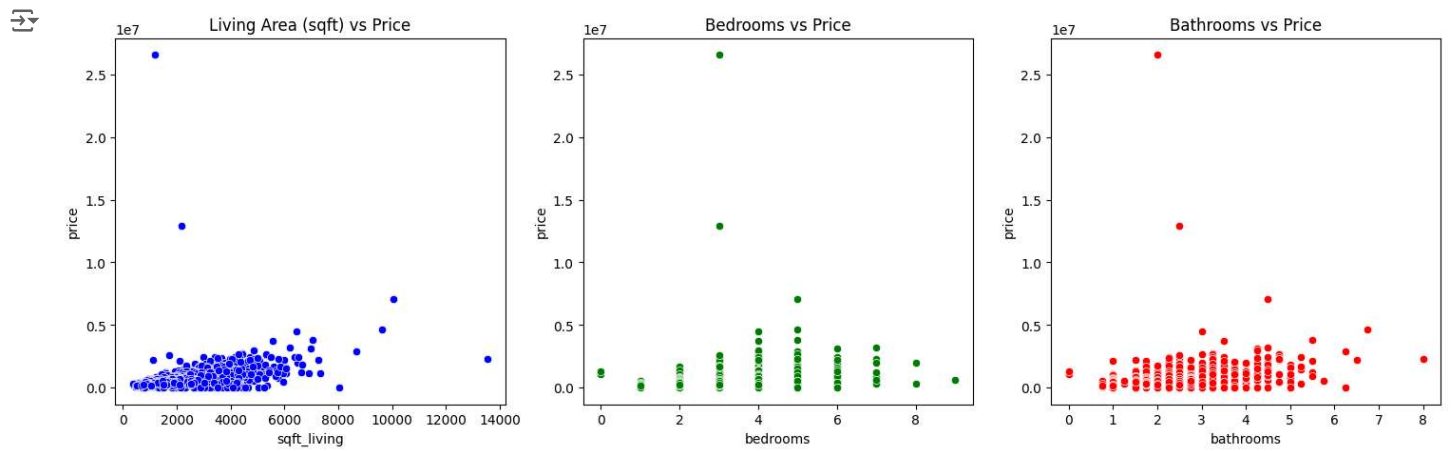
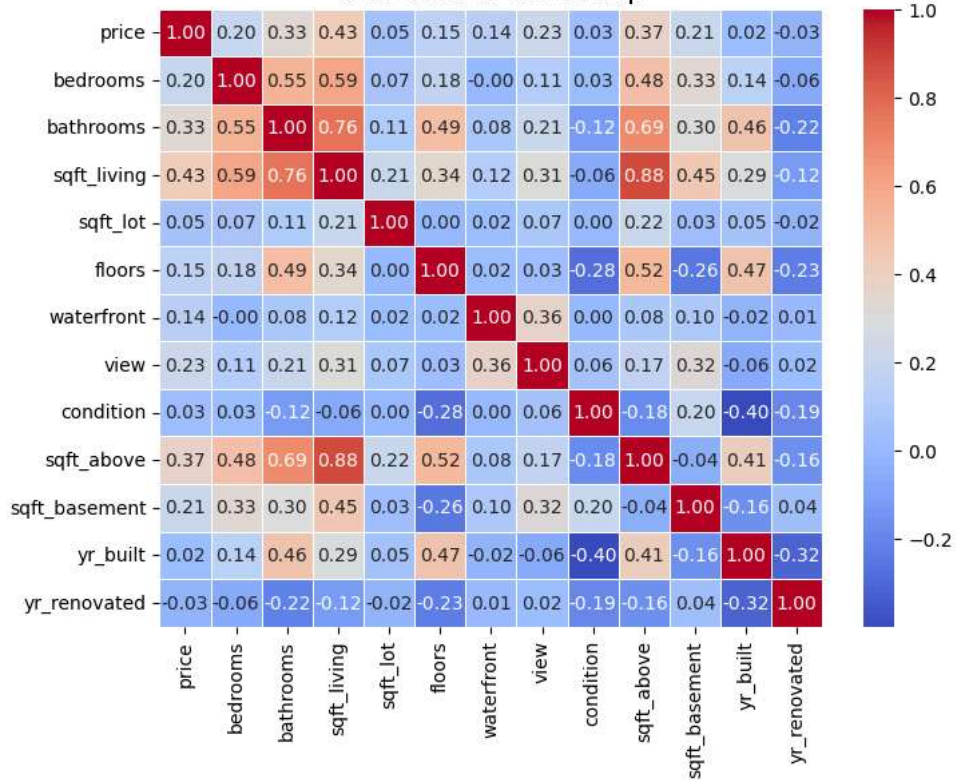


```
1 # Import necessary libraries
2 import pandas as pd
3 import matplotlib.pyplot as plt
4 import seaborn as sns
5
6 # Load the dataset
7 df = pd.read_csv("/content/data.csv")
8
9 # Step 1: Data Cleaning - Drop irrelevant columns
10 df_cleaned = df.drop(columns=["date", "street", "city", "statezip", "country"])
11
12 # Step 2: Scatter Plots - Visualize relationships with the target variable
13 fig, axes = plt.subplots(1, 3, figsize=(18, 5))
14
15 sns.scatterplot(data=df_cleaned, x="sqft_living", y="price", ax=axes[0], color="blue")
16 axes[0].set_title("Living Area (sqft) vs Price")
17
18 sns.scatterplot(data=df_cleaned, x="bedrooms", y="price", ax=axes[1], color="green")
19 axes[1].set_title("Bedrooms vs Price")
20
21 sns.scatterplot(data=df_cleaned, x="bathrooms", y="price", ax=axes[2], color="red")
22 axes[2].set_title("Bathrooms vs Price")
23
24 plt.show()
25
26 # Step 3: Correlation Heatmap - Show top correlations
27 plt.figure(figsize=(8, 6))
28 correlation_matrix = df_cleaned.corr()
29 sns.heatmap(correlation_matrix, annot=True, cmap='coolwarm', fmt=".2f", linewidths=0.5)
30 plt.title("Correlation Heatmap", fontsize=16)
31 plt.show()
32
33 # Step 4: Display correlations with 'price'
34 print(correlation_matrix["price"].sort_values(ascending=False))
35
```



Correlation Heatmap



```
price      1.000000
sqft_living 0.430410
```