

This project visualizes the location of [REDACTED] using a map.

```
[...]: # Install and import fo
```

```
!pip install folium  
import folium
```

```
Requirement already satisfied: branca>=0.3.0 in d:\mambaforge\lib\site-packages (from folium) (0.4.2)
Requirement already satisfied: numpy in d:\mambaforge\lib\site-packages (from folium) (1.21.2)
Requirement already satisfied: jinja2>=2.9 in d:\mambaforge\lib\site-packages (from folium) (3.0.1)
Requirement already satisfied: MarkupSafe>=2.0 in d:\mambaforge\lib\site-packages (from jinja2>=2.9->folium) (2.0.1)
Requirement already satisfied: idna<4,>=2.5 in d:\mambaforge\lib\site-packages (from requests->folium) (3.1)
Requirement already satisfied: charset-normalizer~=2.0.0 in d:\mambaforge\lib\site-packages (from requests->folium) (2.0.0)
Requirement already satisfied: certifi>=2017.4.17 in d:\mambaforge\lib\site-packages (from requests->folium) (2021.5.30)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in d:\mambaforge\lib\site-packages (from requests->folium) (1.26.6)

In [2]: # A simple visualization of the most remote island (Bouvet Island - Norway) on earth.

test_coor = [-54.419992, 3.356570]
test_map = folium.Map(location=test_coor, zoom_start=10) # start at zoom level 10
test_map

Out[2]: 

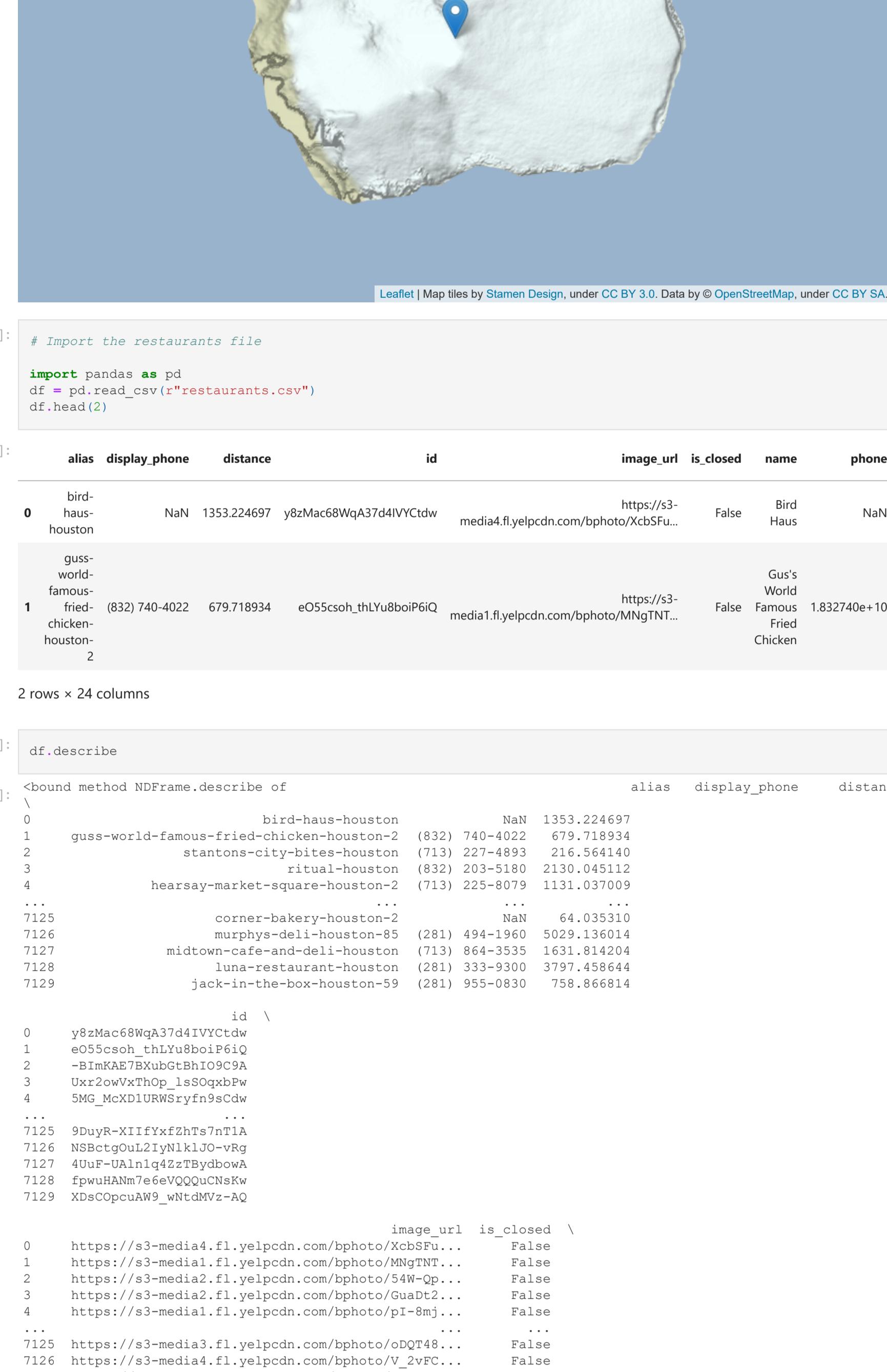
+  
-  
  
Bouvetoya  
  
Leaflet | Data by © OpenStreetMap, under ODbL.


```

Out[3]:

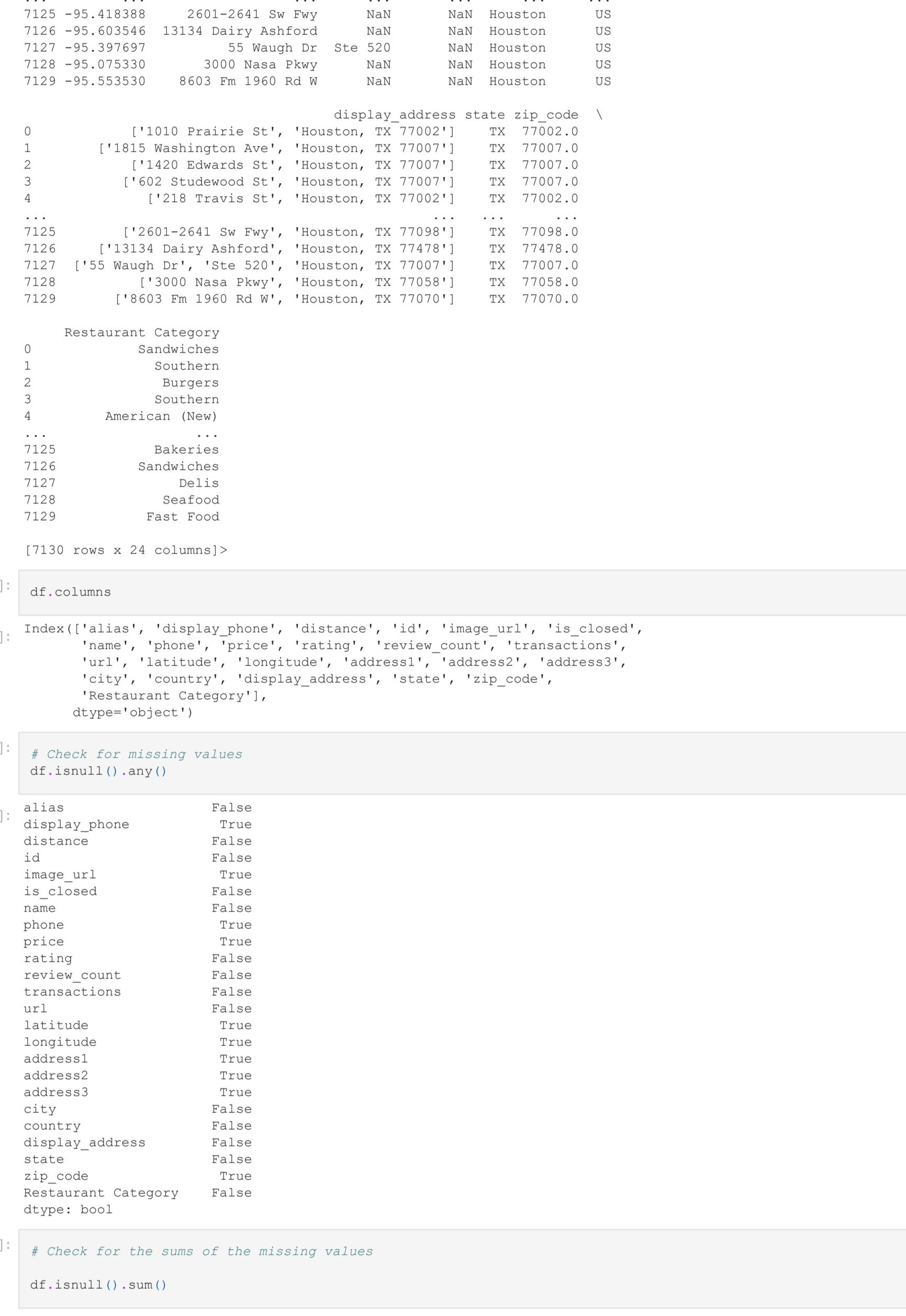
+

-



| | name | phone | price | rating | ... | \ |
|------|----------------------------------|--------------|-------|--------|-----|---|
| 0 | Bird Haus | NaN | \$\$ | 4.5 | ... | |
| 1 | Gus's World Famous Fried Chicken | 1.832740e+10 | \$ | 4.0 | ... | |
| 2 | Stanton's City Bites | 1.713227e+10 | \$\$ | 4.5 | ... | |
| 3 | Ritual | 1.832204e+10 | \$\$ | 4.0 | ... | |
| 4 | Hearsay Market Square | 1.713226e+10 | \$\$ | 4.0 | ... | |
| ... | ... | ... | ... | ... | ... | |
| 7125 | Corner Bakery | NaN | \$\$ | 2.5 | ... | |
| 7126 | Murphy's Deli | 1.281494e+10 | \$ | 3.5 | ... | |
| 7127 | Midtown Cafe & Deli | 1.713864e+10 | \$\$ | 1.0 | ... | |
| 7128 | Luna Restaurant | 1.281334e+10 | \$\$ | 1.5 | ... | |
| 7129 | Jack in the Box | 1.281955e+10 | \$ | 2.0 | ... | |

| | longitude | address1 | address2 | address3 | city | country | \ |
|---|------------|---------------------|----------|----------|---------|---------|---|
| 0 | -95.361582 | 1010 Prairie St | NaN | NaN | Houston | US | |
| 1 | -95.376550 | 1815 Washington Ave | NaN | NaN | Houston | US | |
| 2 | -95.372068 | 1420 Edwards St | NaN | NaN | Houston | US | |
| 3 | -95.387350 | 602 Studewood St | NaN | NaN | Houston | US | |



| | |
|-----------|------|
| id | 0 |
| image_url | 284 |
| is_closed | 0 |
| name | 0 |
| phone | 391 |
| price | 1518 |
| rating | 0 |

```
url                      0
latitude                  4
longitude                 4
address1                 102
address2                 5372
address3                 6961
city                      0
country                   0
display_address            0
state                      0
zip_code                  10
Restaurant Category        0
dtype: int64

In [9]: # Number of restaurants by category
         df["Restaurant Category"].value_counts()

Out[9]: Mexican      885
         Fast Food    516
         Pizza        402
         Sandwiches   378
         Burgers      362
```

```
Performing Arts      1  
Unknown             1  
Fondue              1  
Golf                 1  
Name: Restaurant Category, Length: 177, dtype: int64
```

In [10]:

```
# Plot the restaurant category data
```

```
import matplotlib.pyplot as plt  
df["Restaurant Category"].value_counts()[:20].plot(kind = "bar")
```

A bar chart titled "Food Truck Categories" showing the count of food trucks for various categories. The Y-axis represents the count, ranging from 0 to over 800. The X-axis lists the food truck categories. Mexican food has the highest count at approximately 880, followed by Fast Food at about 530. Other categories show counts decreasing as they move down the list.

| Category | Count |
|------------------------|-------|
| Mexican | 880 |
| Fast Food | 530 |
| Pizza | 410 |
| Sandwiches | 380 |
| Burgers | 370 |
| Chinese | 310 |
| Vietnamese | 290 |
| Food Trucks | 230 |
| Seafood | 220 |
| American (Traditional) | 190 |
| Chicken Wings | 180 |
| American (New) | 160 |
| Delis | 150 |
| Barbeque | 140 |
| Brunch & Brunch | 140 |
| Cajun/Creole | 130 |
| Italian | 130 |
| Tex-Mex | 120 |
| Indian | 110 |
| Bakeries | 90 |

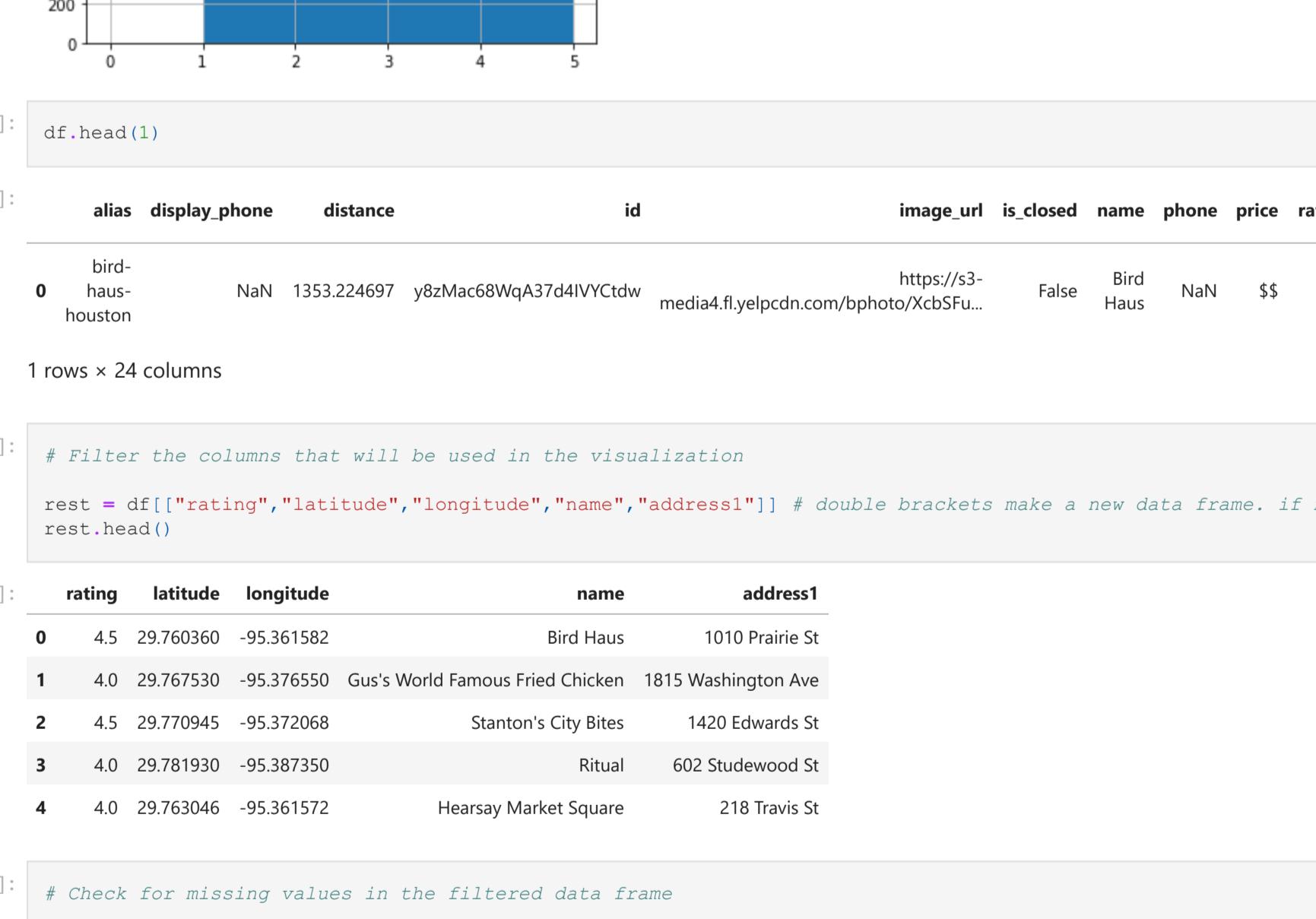
In [11]:

```
# Distribution of the ratings on a histogram  
df["rating"].hist()
```

Out[11]:

A histogram titled "A" showing the distribution of ratings. The x-axis is labeled "rating" and has bins from 1 to 5. The y-axis is labeled "frequency" and ranges from 600 to 1600. The distribution is right-skewed, with the highest frequency in the 4-5 rating bin.

| Rating Bin | Frequency |
|------------|-----------|
| 1 | ~600 |
| 2 | ~650 |
| 3 | ~900 |
| 4 | ~1450 |
| 5 | ~1600 |



```
Out[14]: rating      0
          latitude     4
          longitude    4
          name         0
          address1    102
          dtype: int64

In [15]: # Check for any duplicates
          rest.duplicated().sum()
```

```
In [16]: rest.shape  
  
Out[16]: (7130, 5)  
  
In [17]: # Drop the rows with missing coordinates  
  
rest.dropna(subset = ["latitude", "longitude"], axis=0, inplace=True) # axis=0 deletes the row, axis=1 deletes  
rest.shape  
  
d:\mambaforge\lib\site-packages\pandas\util\_decorators.py:311: SettingWithCopyWarning:  
A value is trying to be set on a copy of a slice from a DataFrame
```

