

```
In [72]: import pandas as pd
import numpy as np

In [73]: file_paths = {
    "Seattle Fencing": "Senna Capital Leads - Seattle Fencing.csv",
    "Seattle HVAC": "Senna Capital Leads - Seattle HVAC.csv",
    "Seattle Roofing": "Senna Capital Leads - Seattle Roofing.csv",
    "Seattle Tree Trimming": "Senna Capital Leads - Seattle Tree Trimming.csv",
    "Tacoma HVAC": "Senna Capital Leads - Tacoma HVAC.csv",
    "Vancouver Fencing": "Senna Capital Leads - Vancouver Fencing .csv",
    "Vancouver Tree Trimming": "Senna Capital Leads - Vancouver Tree Trimming.csv"
}

dataframes = []

for category, path in file_paths.items():
    df = pd.read_csv(path)
    df['Category'] = category
    dataframes.append(df)

merged_df = pd.concat(dataframes, ignore_index=True)
```

```
In [74]: merged_df.head()
```

Out[74]:

	Company Name	Website	Owner/Management	
0	Rare Bears Fencing	https://www.rarebearsfencing.com/	-	info@rare
1	Gibson Fence and Deck	https://gibsonfenceanddeck.com/deck-and-fence-...	Damon Gibson	Gibson@gibsonf
2	Rain City Fence	https://raincityfence.com/	Caleb Helm	fence@
3	Top Rail Fence Seattle	https://toprailfences.com/locations/seattle/?u...	John Schussler	seattlec
4	Cain Fence and Deck	http://www.cainfenceanddeck.com/	Chris Cain	

5 rows × 39 columns

```
In [75]: merged_df.columns
```

```
Out[75]: Index(['Company Name', 'Website', 'Owner/Management', 'Email', 'Phone',
              'Location ', 'reviewsCount', 'Unnamed: 7', 'Unnamed: 8', 'Unnamed: 9',
              'Unnamed: 10', 'Unnamed: 11', 'Unnamed: 12', 'Unnamed: 13',
              'Unnamed: 14', 'Unnamed: 15', 'Unnamed: 16', 'Unnamed: 17', 'Category',
              'Owner Name', 'Location', 'Total Score', 'Reviews Count',
              'Reviews Rate', 'Column 1', 'Company', 'Owner', 'Rating',
              'Review Count', 'City', 'Unnamed: 18', 'Unnamed: 19', 'Unnamed: 0',
              'Unnamed: 1', 'Unnamed: 2', 'Unnamed: 3', 'Unnamed: 4', 'Unnamed: 5',
              'Unnamed: 6'],
              dtype='object')
```

```
In [76]: print(merged_df['Unnamed: 0'])
```

```
0      NaN
1      NaN
2      NaN
3      NaN
4      NaN
```

...

```
326    Pacific NW Landscape & Tree Services
327          LIGHTNING TREE SERVICE LLC
328          TREE WARRIOR
329          Alpha Tree Care, LLC
330      NaN
```

Name: Unnamed: 0, Length: 331, dtype: object

```
In [77]: merged_df['Website']
```

```
Out[77]: 0      https://www.rarebearsfencing.com/
1      https://gibsonfenceanddeck.com/deck-and-fence-...
2      https://raincityfence.com/
3      https://toprailfences.com/locations/seattle/?u...
4      http://www.cainfenceanddeck.com/
```

...

```
326      NaN
327      NaN
328      NaN
329      NaN
330      NaN
```

Name: Website, Length: 331, dtype: object

```
In [78]: merged_df.columns
```

```
Out[78]: Index(['Company Name', 'Website', 'Owner/Management', 'Email', 'Phone',
              'Location ', 'reviewsCount', 'Unnamed: 7', 'Unnamed: 8', 'Unnamed: 9',
              'Unnamed: 10', 'Unnamed: 11', 'Unnamed: 12', 'Unnamed: 13',
              'Unnamed: 14', 'Unnamed: 15', 'Unnamed: 16', 'Unnamed: 17', 'Category',
              'Owner Name', 'Location', 'Total Score', 'Reviews Count',
              'Reviews Rate', 'Column 1', 'Company', 'Owner', 'Rating',
              'Review Count', 'City', 'Unnamed: 18', 'Unnamed: 19', 'Unnamed: 0',
              'Unnamed: 1', 'Unnamed: 2', 'Unnamed: 3', 'Unnamed: 4', 'Unnamed: 5',
              'Unnamed: 6'],
              dtype='object')
```

```
In [79]: merged_df.drop(columns=['Unnamed: 7', 'Unnamed: 8', 'Unnamed: 9',
                              'Unnamed: 10', 'Unnamed: 11', 'Unnamed: 12', 'Unnamed: 13',
```

```
'Unnamed: 14', 'Unnamed: 15', 'Unnamed: 16', 'Unnamed: 17', 'Unnamed: 1', 'Un  
'Unnamed: 1', 'Unnamed: 2', 'Unnamed: 3', 'Unnamed: 4', 'Unnamed: 5',  
'Unnamed: 6'], inplace=True)
```

```
In [80]: merged_df.dropna(subset=['Company Name'], inplace=True)
```

```
In [81]: merged_df.sort_values(by='Category')
```

Out[81]:

	Company Name	Website	Owner/Management
0	Rare Bears Fencing	https://www.rarebearsfencing.com/	-
14	Red = called and owner did not want to share i...	NaN	NaN
13	Dull green = called but no one picked up	NaN	NaN
12	Green = called already, got information	NaN	NaN
9	Harbison Fencing	https://mercerisland.harbisonfencing.com/#caro...	-
...
270	Columbia Fence & Deck	NaN	NaN
269	Vista Home Construction LLC	https://vistahome-constructionllc.com/	NaN info
268	Fence Butler	https://fencebutlers.com/	NaN
279	Adam's Affordable Fencing LLC	http://www.adamsaffordablefencing.com/	NaN adam
292	Pacific NW Landscape & Tree Services	https://pacificnwpx.com/	NaN

252 rows × 19 columns

```
In [82]: cat_index = merged_df.columns.get_loc('Category')
print(cat_index)
```

7

```
In [83]: cols = merged_df.columns.tolist()
c = cols.pop(7)
cols.insert(0, c)
merged_df = merged_df[cols]
```

```
In [84]: merged_df.head()
```

Out[84]:

	Category	Company Name	Website	Owner/Management	
0	Seattle Fencing	Rare Bears Fencing	https://www.rarebearsfencing.com/	-	
1	Seattle Fencing	Gibson Fence and Deck	https://gibsonfenceanddeck.com/deck-and-fence-...	Damon Gibson	Gibs
2	Seattle Fencing	Rain City Fence	https://raincityfence.com/	Caleb Helm	
3	Seattle Fencing	Top Rail Fence Seattle	https://toprailfences.com/locations/seattle/?u...	John Schussler	
4	Seattle Fencing	Cain Fence and Deck	http://www.cainfenceanddeck.com/	Chris Cain	

```
In [85]: merged_df.fillna("")
```

Out[85]:

	Category	Company Name	Website	Owner/Management
0	Seattle Fencing	Rare Bears Fencing	https://www.rarebearsfencing.com/	
1	Seattle Fencing	Gibson Fence and Deck	https://gibsonfenceanddeck.com/deck-and-fence-...	Damon Gibson
2	Seattle Fencing	Rain City Fence	https://raincityfence.com/	Caleb Heln
3	Seattle Fencing	Top Rail Fence Seattle	https://toprailfences.com/locations/seattle/?u...	John Schussle
4	Seattle Fencing	Cain Fence and Deck	http://www.cainfenceanddeck.com/	Chris Cair
...
288	Vancouver Fencing	Perez Landscaping Maintenance LLC	https://perezlandscapingmaintenanceor.com/	
289	Vancouver Fencing	Able Fence Company Inc.	http://www.ablefenceinc.com/	
290	Vancouver Fencing	Cowboy Creek Construction	https://www.fencesbycowboycreek.com/	
291	Vancouver Fencing	GH Gate Products	https://www.ghgateproducts.com/	
292	Vancouver Fencing	Pacific NW Landscape & Tree Services	https://pacificnwpdx.com/	

252 rows × 19 columns

```
In [86]: merged_df.columns
print(merged_df.columns.tolist())
```

```
['Category', 'Company Name', 'Website', 'Owner/Management', 'Email', 'Phone', 'Location', 'reviewsCount', 'Owner Name', 'Location', 'Total Score', 'Reviews Count', 'Reviews Rate', 'Column 1', 'Company', 'Owner', 'Rating', 'Review Count', 'City']
```

```
In [87]: merged_df.columns.str.strip()
merged_df['Owner/Management']
```

```
Out[87]: 0      -
1      Damon Gibson
2      Caleb Helm
3      John Schussler
4      Chris Cain
...
288      NaN
289      NaN
290      NaN
291      NaN
292      NaN
Name: Owner/Management, Length: 252, dtype: object
```

```
In [88]: merged_df.drop(columns="Column 1", inplace=True)
```

```
In [90]: merged_df['Owner'] = merged_df['Owner Name'].combine_first(merged_df['Owner/Management'])
```

```
In [91]: merged_df['Owner']
```

```
Out[91]: 0      -
1      Damon Gibson
2      Caleb Helm
3      John Schussler
4      Chris Cain
...
288      NaN
289      NaN
290      NaN
291      NaN
292      NaN
Name: Owner, Length: 252, dtype: object
```

```
In [94]: merged_df.columns
merged_df.head()
```

Out[94]:

	Category	Company Name	Website	Owner/Management	
0	Seattle Fencing	Rare Bears Fencing	https://www.rarebearsfencing.com/	-	
1	Seattle Fencing	Gibson Fence and Deck	https://gibsonfenceanddeck.com/deck-and-fence-...	Damon Gibson	Gibs
2	Seattle Fencing	Rain City Fence	https://raincityfence.com/	Caleb Helm	
3	Seattle Fencing	Top Rail Fence Seattle	https://toprailfences.com/locations/seattle/?u...	John Schussler	
4	Seattle Fencing	Cain Fence and Deck	http://www.cainfenceanddeck.com/	Chris Cain	

In [103...

merged_df

Out[103...

	Category	Company Name	Website	
0	Seattle Fencing	Rare Bears Fencing	https://www.rarebearsfencing.com/	info@rarebear
1	Seattle Fencing	Gibson Fence and Deck	https://gibsonfenceanddeck.com/deck-and-fence-...	Gibson@gibsonfence
2	Seattle Fencing	Rain City Fence	https://raincityfence.com/	fence@rainc
3	Seattle Fencing	Top Rail Fence Seattle	https://toprailfences.com/locations/seattle/?u...	seattle@top
4	Seattle Fencing	Cain Fence and Deck	http://www.cainfenceanddeck.com/	
...	
288	Vancouver Fencing	Perez Landscaping Maintenance LLC	https://perezlandscapingmaintenanceor.com/	Obdulioperez67
289	Vancouver Fencing	Able Fence Company Inc.	http://www.ablefenceinc.com/	ablefenceco
290	Vancouver Fencing	Cowboy Creek Construction	https://www.fencesbycowboycreek.com/	
291	Vancouver Fencing	GH Gate Products	https://www.ghgateproducts.com/	
292	Vancouver Fencing	Pacific NW Landscape & Tree Services	https://pacificnwpx.com/	info@paci

252 rows × 16 columns

```
In [100... merged_df.drop_duplicates
```

```

Out[100... <bound method DataFrame.drop_duplicates of
Company Name \
0      Seattle Fencing      Rare Bears Fencing
1      Seattle Fencing      Gibson Fence and Deck
2      Seattle Fencing      Rain City Fence
3      Seattle Fencing      Top Rail Fence Seattle
4      Seattle Fencing      Cain Fence and Deck
..      ...
288    Vancouver Fencing      Perez Landscaping Maintenance LLC
289    Vancouver Fencing      Able Fence Company Inc.
290    Vancouver Fencing      Cowboy Creek Construction
291    Vancouver Fencing      GH Gate Products
292    Vancouver Fencing      Pacific NW Landscape & Tree Services

                                Website \
0                                https://www.rarebearsfencing.com/
1      https://gibsonfenceanddeck.com/deck-and-fence-...
2                                https://raincityfence.com/
3      https://toprailfences.com/locations/seattle/?u...
4                                http://www.cainfenceanddeck.com/
..      ...
288      https://perezlandscapingmaintenanceor.com/
289      http://www.ablefenceinc.com/
290      https://www.fencesbycowboycreek.com/
291      https://www.ghgateproducts.com/
292      https://pacificnwpx.com/

                                Email      Phone \
0      info@rarebearsfencing.com      (206) 202-9157
1      Gibson@gibsonfenceanddeck.com      (206) 387-1002
2      fence@raincityfence.com      (206) 886-6234
3      seattle@toprailfence.com      (206) 312-2925
4      -      (206) 571-8762
..      ...
288      ObdulioPerez67@gmail.com      NaN
289      ablefenceco@comcast.net      (360) 256-5896
290      NaN      (360) 356-6842
291      NaN      (360) 241-0880
292      info@pacificnwpx.com      (971) 201-9413

                                Location      reviewsCount      Location \
0                                Seattle      24.0      NaN
1                                Seattle      47.0      NaN
2                                Seattle      140.0      NaN
3                                Seattle      66.0      NaN
4                                Seattle      28.0      NaN
..      ...
288    9301 E Mill Plain Blvd, Vancouver, WA 98664 Va...      NaN      NaN
289    6612 NE St Johns Rd, Vancouver, WA 98661 Vanc...      NaN      NaN
290    2005 SE 192nd Ave Suite 200, Camas, WA 98607 C...      NaN      NaN
291    300 W 15th St suite 300-2, Vancouver, WA 98660...      NaN      NaN
292    3830 E 18th St, Vancouver, WA 98661 Vancouver      NaN      NaN

                                Total Score      Reviews Count      Reviews Rate      Company      Owner      Rating \
0                                NaN      NaN      NaN      NaN      -      NaN
1                                NaN      NaN      NaN      NaN      Damon Gibson      NaN

```

2	NaN	NaN	NaN	NaN	NaN	Caleb Helm	NaN
3	NaN	NaN	NaN	NaN	NaN	John Schussler	NaN
4	NaN	NaN	NaN	NaN	NaN	Chris Cain	NaN
..
288	NaN	NaN	NaN	NaN	NaN	NaN	NaN
289	NaN	NaN	NaN	NaN	NaN	NaN	NaN
290	NaN	NaN	NaN	NaN	NaN	NaN	NaN
291	NaN	NaN	NaN	NaN	NaN	NaN	NaN
292	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Review	Count	City
0		NaN	NaN
1		NaN	NaN
2		NaN	NaN
3		NaN	NaN
4		NaN	NaN
..	
288		4.6	NaN
289		4.2	NaN
290		5.0	NaN
291		NaN	NaN
292		4.9	NaN

[252 rows x 16 columns]>

In [102...

```
merged_df.head()
```

Out[102...

	Category	Company Name	Website
0	Seattle Fencing	Rare Bears Fencing	https://www.rarebearsfencing.com/ info@rarebearsfencing.com
1	Seattle Fencing	Gibson Fence and Deck	https://gibsonfenceanddeck.com/deck-and-fence-... Gibson@gibsonfenceanddeck.com
2	Seattle Fencing	Rain City Fence	https://raincityfence.com/ fence@raincityfence.com
3	Seattle Fencing	Top Rail Fence Seattle	https://toprailfences.com/locations/seattle/?u... seattle@toprailfences.com
4	Seattle Fencing	Cain Fence and Deck	http://www.cainfenceanddeck.com/

In [108...

```
merged_df
```

Out[108...

	Category	Company Name	Website	
0	Seattle Fencing	Rare Bears Fencing	https://www.rarebearsfencing.com/	info@rarebear
1	Seattle Fencing	Gibson Fence and Deck	https://gibsonfenceanddeck.com/deck-and-fence-...	Gibson@gibsonfence
2	Seattle Fencing	Rain City Fence	https://raincityfence.com/	fence@rainc
3	Seattle Fencing	Top Rail Fence Seattle	https://toprailfences.com/locations/seattle/?u...	seattle@top
4	Seattle Fencing	Cain Fence and Deck	http://www.cainfenceanddeck.com/	
...	
288	Vancouver Fencing	Perez Landscaping Maintenance LLC	https://perezlandscapingmaintenanceor.com/	Obdulioperez67
289	Vancouver Fencing	Able Fence Company Inc.	http://www.ablefenceinc.com/	ablefenceco
290	Vancouver Fencing	Cowboy Creek Construction	https://www.fencesbycowboycreek.com/	
291	Vancouver Fencing	GH Gate Products	https://www.ghgateproducts.com/	
292	Vancouver Fencing	Pacific NW Landscape & Tree Services	https://pacificnwpx.com/	info@paci

252 rows × 16 columns

```
In [110... merged_df.to_excel("correct_merge_df.xlsx", engine="openpyxl", index=False)
```