

Updating_DataFrame_Data

July 19, 2024

1 Updating DataFrame Data

1. Run the cell below to setup a DataFrame of client data

```
[1]: import pandas as pd
data = {'first': ['Carl', 'Francis', 'Sam'],
        'last':  ['Po',   'Nyguen', 'Smith'],
        'age':   ['32',   '45',    '22'],
        'CH_count':[12,   14,    39]}
clients = pd.DataFrame(data)
clients
```

```
[1]:
```

	first	last	age	CH_count
0	Carl	Po	32	12
1	Francis	Nyguen	45	14
2	Sam	Smith	22	39

2. Run the cell below to create a DataFrame with additional clients

```
[2]: new_data = {'first':['Sue', 'Boya'],
                 'last':['Rankler', 'Maple'],
                 'age':[93, 12],
                 'CH_count':[22, 1]}
new_clients = pd.DataFrame(new_data)
new_clients
```

```
[2]:
```

	first	last	age	CH_count
0	Sue	Rankler	93	22
1	Boya	Maple	12	1

3. Use the DataFrame `.append()` method to add the new clients.

```
[3]: clients.append(new_clients)
```

```
[3]:
```

	first	last	age	CH_count
0	Carl	Po	32	12
1	Francis	Nyguen	45	14
2	Sam	Smith	22	39

0	Sue	Rankler	93	22
1	Boya	Maple	12	1

4. Set the age of the first client to 33 by using `.loc[]` to select row 0, column 'age'.

```
[4]: clients.loc[0, 'age'] = 33
clients
```

```
[4]:
```

	first	last	age	CH_count
0	Carl	Po	33	12
1	Francis	Nyguen	45	14
2	Sam	Smith	22	39

5. Set the value of all rows in the column 'CH_count' to -1

```
[5]: clients.loc[:, 'CH_count'] = -1
clients
```

```
[5]:
```

	first	last	age	CH_count
0	Carl	Po	33	-1
1	Francis	Nyguen	45	-1
2	Sam	Smith	22	-1

6. Use `+=` to add 1 to all rows of 'CH_count'

```
[6]: clients.CH_count += 1
clients
```

```
[6]:
```

	first	last	age	CH_count
0	Carl	Po	33	0
1	Francis	Nyguen	45	0
2	Sam	Smith	22	0

7. Use the DataFrame `.replace()` method with the arguments 0, 99 to replace all 0 values in the DataFrame with 99.

```
[7]: clients.replace(0, 99)
```

```
[7]:
```

	first	last	age	CH_count
0	Carl	Po	33	99
1	Francis	Nyguen	45	99
2	Sam	Smith	22	99

```
[ ]:
```