

3_merge_concat

May 16, 2019

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In [ ]: import pandas as pd
```

```
In [ ]: raw_data = {
        'subject_id': ['1', '2', '3', '4', '5', '7', '8', '9', '10', '11'],
        'test_score': [51, 15, 15, 61, 16, 14, 15, 1, 61, 16]}
df_a = pd.DataFrame(raw_data, columns = ['subject_id', 'test_score'])
df_a
```

```
In [ ]: raw_data = {
        'subject_id': ['4', '5', '6', '7', '8'],
        'first_name': ['Billy', 'Brian', 'Bran', 'Bryce', 'Betty'],
        'last_name': ['Bonder', 'Black', 'Balwner', 'Brice', 'Btisan']}
df_b = pd.DataFrame(raw_data, columns = ['subject_id', 'first_name', 'last_name'])
df_b
```

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In [ ]: pd.merge(df_a, df_b, on='subject_id')
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In [ ]: pd.merge(df_a, df_b, left_on='subject_id', right_on='subject_id')
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In [ ]: pd.merge(df_a, df_b, on='subject_id', how='left')
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In [ ]: pd.merge(df_a, df_b, on='subject_id', how='right')
```

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In [ ]: pd.merge(df_a, df_b, on='subject_id', how='outer')
```

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In [ ]: pd.merge(df_a, df_b, on='subject_id', how='inner')
```

```
In [ ]: pd.merge(df_a, df_b, right_index=True, left_index=True) # join
```

0.0.1 Concat

```
In [ ]: raw_data = {
        'subject_id': ['1', '2', '3', '4', '5'],
        'first_name': ['Alex', 'Amy', 'Allen', 'Alice', 'Ayoung'],
        'last_name': ['Anderson', 'Ackerman', 'Ali', 'Aoni', 'Atiches']}
df_a = pd.DataFrame(raw_data, columns = ['subject_id', 'first_name', 'last_name'])
df_a
```

```
In [ ]: raw_data = {
        'subject_id': ['4', '5', '6', '7', '8'],
        'first_name': ['Billy', 'Brian', 'Bran', 'Bryce', 'Betty'],
        'last_name': ['Bonder', 'Black', 'Balwner', 'Brice', 'Btisan']}
df_b = pd.DataFrame(raw_data, columns = ['subject_id', 'first_name', 'last_name'])
df_b

In [ ]: df_new = pd.concat([df_a, df_b])
df_new.reset_index()

In [ ]: df_a.append(df_b)

In [ ]: df_new = pd.concat([df_a, df_b], axis=1)
df_new.reset_index()

In [ ]:
```