Merge API Parameter Not Explicitly Set

Context

The `df.merge()` API **merges two `DataFrames`** in Pandas.

Problem

Although using the default parameter can produce the same result, **explicitly specify `on` and `how` and `validate` produce better readability**.

The parameter `on` states **which columns to join on**,
and the parameter `how` **describes the join method (e.g., outer, inner)**.
Also, the `validate` parameter will check **whether the merge is of a specified type**.
If the developer assumes the merge keys are unique in both left and right datasets, but that is not the case, and he does not specify this parameter, **the result might silently go wrong**.

Solution

Developer should **explicitly specify ALL the parameters specified:**

1- on
2- how
3- validate

If one of this parameter is not present in the API call, the problem still persists.

Existing Stage	Effect
Data Cleaning	Readability & Error-prone

Examples at next page.

Example

```python
import pandas as pd
df1 = pd.DataFrame({'key': ['foo', 'bar', 'baz', 'foo'],
                    'value': [1, 2, 3, 5]})
df2 = pd.DataFrame({'key': ['foo', 'bar', 'baz', 'foo'],
                    'value': [5, 6, 7, 8]})
- df3 = df1.merge(df2)
+ df3 = df1.merge(
+     df2,
+     how='inner',
+     on='key',
+     validate='m:m'
+ )
```