

jmec2

May 27, 2024

```
[ ]: import numpy as np
import pandas as pd
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[ ]: ex = pd.read_excel('./.xlsx', header=None)

display(ex.head(20))
print(len(ex))
```

	0	1
0	[(1)]	1
1		1
2		1
3		1
4	NaN	NaN
5	[(2)]	2
6		2
7		2
8		2
9	NaN	2
10	NaN	2
11	NaN	NaN
12	[(3)]	3
13		3.1
14		3.1
15		3.1
16	NaN	NaN
17		3.2
18		3.2
19		3.2
31		

```
[ ]: def parse_jmec(
    keys: list[str], values: list[str], primary_key: str, section_num: int
):

    # <-- INPUT VALIDATION -->
    if len(keys) != len(values):
        raise ValueError("Keys and values must have the same length")
```

```

# <-- MAIN PROCESS -->
#
clean_data: list[tuple[str, str]] = []
str_list: list[str] = []
for i in range(len(keys)):

    reversed_idx = len(keys) - i - 1

    # keys values
    if keys[reversed_idx] is np.nan and values[reversed_idx] is np.nan:
        continue
    # keys values values
    elif keys[reversed_idx] is np.nan and values[reversed_idx] is not np.
↳nan:
        str_list.append(values[reversed_idx])
    # keys values
    elif keys[reversed_idx] is not np.nan and values[reversed_idx] is np.
↳nan:
        raise Exception('index value ')
    # keys values str_list
    elif keys[reversed_idx] is not np.nan and values[reversed_idx] is not_
↳np.nan:
        str_list.append(values[reversed_idx])
        str_list.reverse()
        string = ''.join(str_list)
        str_list = []
        clean_data.append([keys[reversed_idx], string])

clean_data.reverse()
print("DEBUG: clean_data")
print(clean_data, end='\n\n')

# primary_key idx
pkey_indices = []
for i in range(len(clean_data)):
    key = clean_data[i][0]
    if key.startswith(primary_key):
        pkey_indices.append(i)

pkey_indices.append(len(clean_data))

print("DEBUG: pkey_indices")
print(pkey_indices, end='\n\n')

# primary_key
sectoin_cnts = []

```

```

for i in range(1, len(pkey_indices)):
    prev = pkey_indices[i-1]
    curr = pkey_indices[i]

    cnt = (curr - prev - 1) // section_num
    sectoin_cnts.append(cnt)

print("DEBUG: sectoin_cnts")
print(sectoin_cnts, end='\n\n')

#
ans = []
for i in range(len(pkey_indices) - 1): # end -1
    for j in range(sectoin_cnts[i]):

        # 1 pkey
        ans_row = [clean_data[pkey_indices[i]][1]]

        for k in range(section_num):

            #
            idx = pkey_indices[i] + section_num * j + k + 1
            ans_row.append(clean_data[idx][1])

        ans.append(ans_row)

print("DEBUG: ans")
print(ans, end='\n\n')

return ans

```

```
ans = parse_jmec(ex[0].tolist(), ex[1].tolist(), '[ ', 3)
```

DEBUG: clean_data

```

[[' (1)'], [' 1'], [' ', ' 1'], [' ', ' 1'], [' ', ' 1'],
 [' (2)'], [' 2'], [' ', ' 2'], [' ', ' 2'], [' ', ' 2 2 2'],
 [' (3)'], [' 3'], [' ', ' 3.1'], [' ', ' 3.1'], [' ', ' 3.1'],
 [' ', ' 3.2'], [' ', ' 3.2'], [' ', ' 3.2'], [' (4)'], [' 4'],
 [' ', ' 4.1'], [' ', ' 4.1'], [' ', ' 4.1 4.1'], [' ',
 ' 4.2'], [' ', ' 4.2'], [' ', ' 4.2 4.2']]

```

DEBUG: pkey_indices

```
[0, 4, 8, 15, 22]
```

DEBUG: sectoin_cnts

```
[1, 1, 2, 2]
```

DEBUG: ans

```
[[' 1', ' 1', ' 1', ' 1'], [' 2', ' 2', ' 2', ' 2 2 2'], [' 3',  
' 3.1', ' 3.1', ' 3.1'], [' 3', ' 3.2', ' 3.2', ' 3.2'], [' 4',  
' 4.1', ' 4.1', ' 4.1 4.1'], [' 4', ' 4.2', ' 4.2', ' 4.2 4.2']]
```

```
[ ]: df = pd.DataFrame(ans)  
      display(df)
```

	0	1	2	3
0	1	1	1	1
1	2	2	2	2 2 2
2	3	3.1	3.1	3.1
3	3	3.2	3.2	3.2
4	4	4.1	4.1	4.1 4.1
5	4	4.2	4.2	4.2 4.2

```
[ ]:
```