

```
import pandas as pd
df=pd.read_csv('/content/Groceries_dataset.csv')
df.head()
```

```
↗
```

	Member_number	Date	itemDescription
0	1808	21-07-2015	tropical fruit
1	2552	05-01-2015	whole milk
2	2300	19-09-2015	pip fruit
3	1187	12-12-2015	other vegetables
4	3037	01-02-2015	whole milk

```
df['single_transcation']=df['Member_number'].astype(str)+'_'+df['Date'].astype(str)
df.head()
```

```
↗
```

	Member_number	Date	itemDescription	single_transcation
0	1808	21-07-2015	tropical fruit	1808_21-07-2015
1	2552	05-01-2015	whole milk	2552_05-01-2015
2	2300	19-09-2015	pip fruit	2300_19-09-2015
3	1187	12-12-2015	other vegetables	1187_12-12-2015
4	3037	01-02-2015	whole milk	3037_01-02-2015

```
df2=pd.crosstab(df['single_transaction'],df['item_Description'])
df2.head()
```

```
↗
-----
KeyError                                Traceback (most recent call last)
/usr/local/lib/python3.10/dist-packages/pandas/core/indexes/base.py in get_loc(self,
key)
    3652         try:
-> 3653             return self._engine.get_loc(casted_key)
    3654         except KeyError as err:
```



4 frames

```
pandas/_libs/hashtable_class_helper.pxi in
pandas._libs.hashtable.PyObjectHashTable.get_item()
```

```
pandas/_libs/hashtable_class_helper.pxi in
pandas._libs.hashtable.PyObjectHashTable.get_item()
```

```
KeyError: 'single_transaction'
```

The above exception was the direct cause of the following exception:

```
KeyError                                Traceback (most recent call last)
/usr/local/lib/python3.10/dist-packages/pandas/core/indexes/base.py in get_loc(self,
key)
    3653         return self._engine.get_loc(casted_key)
    3654     except KeyError as err:
-> 3655         raise KeyError(key) from err
    3656     except TypeError:
    3657         # If we have a listlike key, check indexing error will raise
```

```
def encode(item_freq):
    res=0
    if item_freq==0:
        res=1
    return res
```

```
from mixtend.frequent_patterns import apriori
from mixtend.frequent_patterns import association_rules
frequent_itemsets
```

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