

```
In [35]: import pandas as pd

data = {
    "InvoiceNo": [
        1001, 1001, 1001,
        1002, 1002,
        1003, 1003, 1003,
        1004, 1004,
        1005, 1005, 1005,
        1006, 1006
    ],
    "Product": [
        "Bread", "Milk", "Butter",
        "Bread", "Milk",
        "Milk", "Eggs", "Bread",
        "Rice", "Sugar",
        "Bread", "Butter", "Eggs",
        "Tea", "Sugar"
    ]
}

df = pd.DataFrame(data)
df
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0	1001	Bread
1	1001	Milk
2	1001	Butter
3	1002	Bread
4	1002	Milk
5	1003	Milk
6	1003	Eggs
7	1003	Bread
8	1004	Rice
9	1004	Sugar
10	1005	Bread
11	1005	Butter
12	1005	Eggs
13	1006	Tea
14	1006	Sugar

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In [36]: `df.info()`

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<class 'pandas.core.frame.DataFrame'>
RangeIndex: 15 entries, 0 to 14
Data columns (total 2 columns):
#   Column      Non-Null Count  Dtype
---  -
0   InvoiceNo    15 non-null    int64
1   Product     15 non-null    object
dtypes: int64(1), object(1)
memory usage: 372.0+ bytes

```

```

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```

```

In [37]: # Remove missing values (if any)
df.dropna(inplace=True)

# Ensure correct format
df["Product"] = df["Product"].str.strip()

```

```

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```

```

In [38]: basket = (
    df.groupby(["InvoiceNo", "Product"])["Product"]
    .count()
    .unstack()
    .fillna(0)
)

basket = basket.applymap(lambda x: 1 if x > 0 else 0)
basket

```

```

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/tmp/ipython-input-2967875563.py:8: FutureWarning: DataFrame.applymap has been
deprecated. Use DataFrame.map instead.
    basket = basket.applymap(lambda x: 1 if x > 0 else 0)
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```

Out[38]: **Product Bread Butter Eggs Milk Rice Sugar Tea**

InvoiceNo							
1001	1	1	0	1	0	0	0
1002	1	0	0	1	0	0	0
1003	1	0	1	1	0	0	0
1004	0	0	0	0	1	1	0
1005	1	1	1	0	0	0	0
1006	0	0	0	0	0	1	1

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```

In [39]: **from** mlxtend.frequent_patterns **import** association_rules

```
rules = association_rules(
    frequent_itemsets,
    metric="lift",
    min_threshold=1
)

rules[["antecedents", "consequents", "support", "confidence", "lift"]]
```

```

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/usr/local/lib/python3.12/dist-packages/mlxtend/frequent_patterns/association_r
ules.py:186: RuntimeWarning: invalid value encountered in divide
    cert_metric = np.where(certainty_denom == 0, 0, certainty_num / certainty_den
om)

```

```

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```


Out[39]:

	antecedents	consequents	support	confidence	lift
0	(Bread)	(Butter)	0.2	0.333333	1.666667
1	(Butter)	(Bread)	0.2	1.000000	1.666667
2	(Bread)	(Cheese)	0.2	0.333333	1.666667
3	(Cheese)	(Bread)	0.2	1.000000	1.666667
4	(Bread)	(Milk)	0.6	1.000000	1.000000
5	(Milk)	(Bread)	0.6	0.600000	1.000000
6	(Butter)	(Milk)	0.2	1.000000	1.000000
7	(Milk)	(Butter)	0.2	0.200000	1.000000
8	(Cereal)	(Milk)	0.2	1.000000	1.000000
9	(Milk)	(Cereal)	0.2	0.200000	1.000000
10	(Milk)	(Cheese)	0.2	0.200000	1.000000
11	(Cheese)	(Milk)	0.2	1.000000	1.000000
12	(Eggs)	(Milk)	0.4	1.000000	1.000000
13	(Milk)	(Eggs)	0.4	0.400000	1.000000
14	(Bread, Butter)	(Milk)	0.2	1.000000	1.000000
15	(Bread, Milk)	(Butter)	0.2	0.333333	1.666667
16	(Butter, Milk)	(Bread)	0.2	1.000000	1.666667
17	(Bread)	(Butter, Milk)	0.2	0.333333	1.666667
18	(Butter)	(Bread, Milk)	0.2	1.000000	1.666667
19	(Milk)	(Bread, Butter)	0.2	0.200000	1.000000
20	(Bread, Milk)	(Cheese)	0.2	0.333333	1.666667
21	(Bread, Cheese)	(Milk)	0.2	1.000000	1.000000
22	(Milk, Cheese)	(Bread)	0.2	1.000000	1.666667
23	(Bread)	(Milk, Cheese)	0.2	0.333333	1.666667
24	(Milk)	(Bread, Cheese)	0.2	0.200000	1.000000
25	(Cheese)	(Bread, Milk)	0.2	1.000000	1.666667
26	(Bread, Eggs)	(Milk)	0.2	1.000000	1.000000
27	(Milk)	(Bread, Eggs)	0.2	0.200000	1.000000

```

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```

In [40]: **import** matplotlib.pyplot **as** plt

```
frequent_itemsets.sort_values("support", ascending=False).head(5).plot(
    x="itemsets",
    y="support",
    kind="bar",
    legend=False
)

plt.title("Top Frequent Itemsets")
plt.ylabel("Support")
plt.xlabel("Itemsets")
plt.show()
```

```

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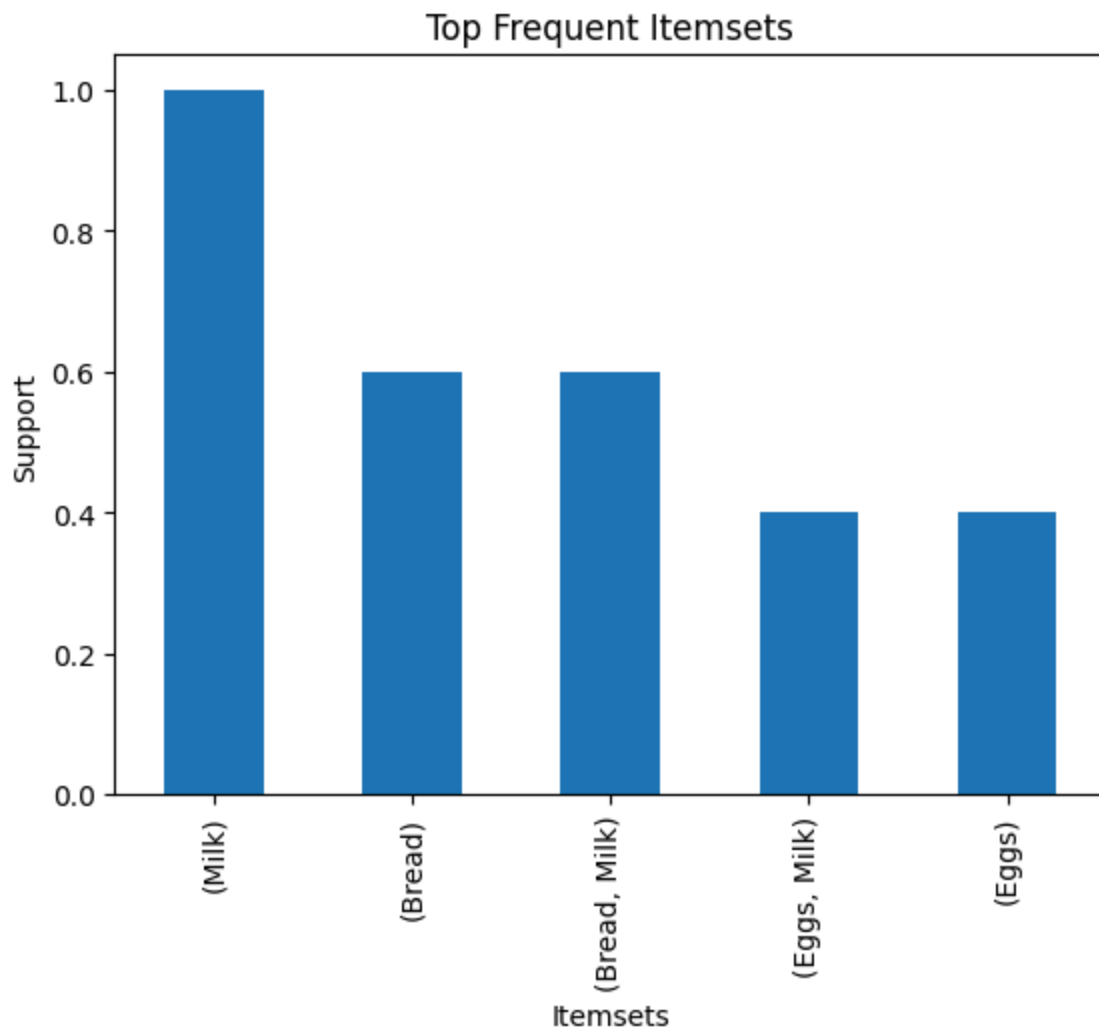
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