

## Experiment No.9

Aim:- To implement association mining algorithm like Apriori using python . import pandas as pd

```
from mlxtend.frequent_patterns import apriori
```

```
from mlxtend.frequent_patterns import association_rules
```

```
data = {'Milk': [0, 0, 1, 0, 1],
```

```
'Bread': [1, 1, 1, 1, 0],
```

```
'Butter': [1, 1, 1, 0, 0],
```

```
'Eggs': [1, 0, 0, 0, 0],
```

```
'Coke': [0, 0, 0, 1, 1], }
```

```
df = pd.DataFrame(data)
```

```
frequent_itemsets = apriori(df, min_support=0.3, use_colnames=True)
```

```
rules = association_rules(frequent_itemsets, metric="confidence", min_threshold=0.8)
```

```
print("Frequent Itemsets:\n", frequent_itemsets)
```

```
print("\nAssociation Rules:\n", rules[['antecedents', 'consequents',
```

```
'support', 'confidence']])
```