

```
import pandas as pd
```

```
data={'No':[1,2,3,4],'Company':['Tata','MG','Kia','Hyundai'],'Model':['Nexon','Astor','Seltos','Creta'],  
      'Year':[2017,2021,2019,2015]}
```

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

```
df['Company']=pd.Categorical(df['Company'])
```

```
df['Model']=pd.Categorical(df['Model'])
```

```
df['Company']=df['Company'].cat.codes
```

```
df['Model']=df['Model'].cat.codes
```

```
print(df)
```

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

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

```
frequent_itemsets=apriori(df,min_support=0.5,use_colnames=True)
```

```
print(frequent_itemsets)
```

```
association_rules=association_rules(frequent_itemsets,metric="confidence",min_threshold=0.7)
```

```
print(association_rules)
```