

In [1]:

```
import pandas as pd
```

In [3]:

```
products = pd.DataFrame([{'Product ID' : '4109', 'Price' : '5.0', 'Product' : 'Sushi Roll'},
                          {'Product ID' : '1412', 'Price' : '0.5', 'Product' : 'Egg'},
                          {'Product ID' : '8931', 'Price' : '1.5', 'Product' : 'Bagel'}])

products = products.set_index('Product ID')
products      #product dataframe 출력
```

Out[3]:

	Price	Product
Product ID		
4109	5.0	Sushi Roll
1412	0.5	Egg
8931	1.5	Bagel

In [6]:

```
invoices = pd.DataFrame([{'Customer' : 'Ali', 'Product ID' : '4109', 'Quantity' : '1'},
                          {'Customer' : 'Eric', 'Product ID' : '1412', 'Quantity' : '12'},
                          {'Customer' : 'Ande', 'Product ID' : '8931', 'Quantity' : '6'},
                          {'Customer' : 'Sam', 'Product ID' : '4109', 'Quantity' : '2'}])

invoices      #invoices dataframe 출력
```

Out[6]:

	Customer	Product ID	Quantity
0	Ali	4109	1
1	Eric	1412	12
2	Ande	8931	6
3	Sam	4109	2

In [13]:

```
merged = pd.merge(products, invoices, how = 'inner', left_on = 'Product ID', right_on = 'Product ID')
merged
```

#merged dataframe 출력

Out[13]:

	Product ID	Price	Product	Customer	Quantity
0	4109	5.0	Sushi Roll	Ali	1
1	4109	5.0	Sushi Roll	Sam	2
2	1412	0.5	Egg	Eric	12
3	8931	1.5	Bagel	Ande	6