```
%matplotlib inline
In [1]:
         import pandas as pd
         booksales = pd.read csv('C:\\Users\\sujoydutta\\Downloads\\booksales.csv')
In [2]:
         booksales
Out[2]:
                             Book title Number sold Sales price Royalty paid
         0
                     The Bricklayer's Bible
                                                  8
                                                           2.99
                                                                        0.55
         1
                              Swimrand
                                                           1.99
                                                                        0.35
         2 Pining For The Fisheries of Yore
                                                 28
                                                           2.99
                                                                        0.55
         3
                     The Duck Goes Here
                                                 34
                                                           2.99
                                                                        0.55
```

```
In [3]: Q4sales = pd.read_csv('C:\\Users\\sujoydutta\\Downloads\\Q4salesreport.csv')
    Q4sales
```

11.50

4

4.25

Out[3]:		Title	Units sold	List price	Currency	Royalty FE	Royalty INR
0 Pining fo		Pining for the Fisheries of Yore	80	3.50	USD	14.98	1258.32
	1	Swimrand	1	2.99	USD	0.14	11.76
	2	The Bricklayer's Bible	17	3.50	USD	5.15	432.60
	3	The Duck Goes Here	34	2.99	USD	5.78	485.52
	4	The Tower Commission Report	4	9.50	USD	6.20	520.80
	5	Pining for the Fisheries of Yore	47	2.99	UK	11.98	1281.86
	6	The Bricklayer's Bible	17	2.99	UK	3.50	374.50
	7	The Tower Commission Report	4	6.50	UK	4.80	513.60
	8	Swimrand	8	1.99	EUR	0.88	80.96
	9	The Duck Goes Here	12	1.99	EUR	1.50	138.00

The Tower Commission Report

Challenge: first combine these sales together into a single dataframe, then compute how much money consumers spent on each book in each currency.

```
In [7]: data = pd.merge(booksales, Q4sales, left_on='Book title', right_on='Title', how='inner')
    data = data.drop(columns=['Title'])
    data
```

Out[7]:		Book title	Number sold	Sales price	Royalty paid	Units sold	List price	Currency	Royalty FE	Royalty INR
	0	Swimrand	2	1.99	0.35	1	2.99	USD	0.14	11.76
	1	Swimrand	2	1.99	0.35	8	1.99	EUR	0.88	80.96
	2	The Duck Goes Here	34	2.99	0.55	0.55 34	2.99	USD	5.78	485.52
	3	The Duck Goes Here	34	2.99	0.55	12	1.99	EUR	1.50	138.00

```
The Tower Commission
4
                                            11.50
                                                         4.25
                                                                            9.50
                                                                                       USD
                                                                                                 6.20
                                                                                                          520.80
                    Report
     The Tower Commission
                                                                                        UK
                                                                                                 4.80
                                                                                                          513.60
                                            11.50
                                                         4.25
                                                                            6.50
                    Report
```

Out[8]:

	Book title	Number sold	Sales price	Royalty paid	Units sold	List price	Currency	Royalty FE	Royalty INR	Total_Spent
0	Swimrand	2	1.99	0.35	1	2.99	USD	0.14	11.76	3.98
1	Swimrand	2	1.99	0.35	8	1.99	EUR	0.88	80.96	3.98
2	The Duck Goes Here	34	2.99	0.55	34	2.99	USD	5.78	485.52	101.66
3	The Duck Goes Here	34	2.99	0.55	12	1.99	EUR	1.50	138.00	101.66
4	The Tower Commission Report	4	11.50	4.25	4	9.50	USD	6.20	520.80	46.00
5	The Tower Commission Report	4	11.50	4.25	4	6.50	UK	4.80	513.60	46.00

```
In [14]: data.columns = data.columns.str.strip()
  data.columns
```

In [15]: spending_by_book_currency = data.pivot_table(index='Book title', columns='Currency', val
 print(spending_by_book_currency)

Currency EUR UK USD Book title
Swimrand 3.98 NaN 3.98
The Duck Goes Here 101.66 NaN 101.66
The Tower Commission Report NaN 46.0 46.00