In [1]:

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
```

In [2]:

```
df=pd.read_csv("D://datascience//data.csv",encoding= 'unicode_escape')
```

In [3]:

```
df.head()
```

Out[3]:

	InvoiceNo	StockCode	Description	Quantity	InvoiceDate	UnitPrice	CustomerID	Country
0	536365	85123A	WHITE HANGING HEART T-LIGHT HOLDER	6	12/1/2010 8:26	2.55	17850.0	United Kingdom
1	536365	71053	WHITE METAL LANTERN	6	12/1/2010 8:26	3.39	17850.0	United Kingdom
2	536365	84406B	CREAM CUPID HEARTS COAT HANGER	8	12/1/2010 8:26	2.75	17850.0	United Kingdom
3	536365	84029G	KNITTED UNION FLAG HOT WATER BOTTLE	6	12/1/2010 8:26	3.39	17850.0	United Kingdom
4	536365	84029E	RED WOOLLY HOTTIE WHITE HEART.	6	12/1/2010 8:26	3.39	17850.0	United Kingdom

In [4]:

```
df.shape
```

Out[4]:

```
(541909, 8)
```

In [5]:

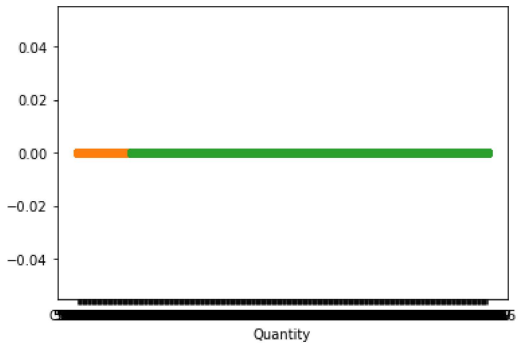
```
df_UnitedKingdom=df.loc[df['Country']=='UnitedKingdom']
```

In [6]:

```
df_Australia=df.loc[df['Country']=='Australia']
df_France=df.loc[df['Country']=='France']
```

In [7]:

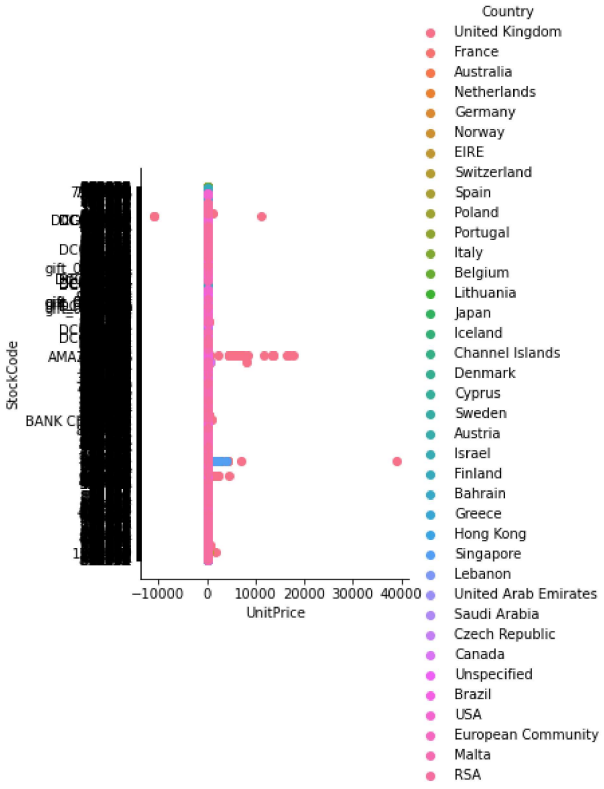
```
plt.plot(df_UnitedKingdom['InvoiceNo'],np.zeros_like(df_UnitedKingdom['InvoiceNo']),'o')
plt.plot(df_Australia['InvoiceNo'],np.zeros_like(df_Australia['InvoiceNo']),'o')
plt.plot(df_France['InvoiceNo'],np.zeros_like(df_France['InvoiceNo']),'o')
plt.xlabel('Quantity')
plt.show()
```



In [22]:

```
sns.FacetGrid(df,hue="Country",size=5).map(plt.scatter,"UnitPrice","StockCode").add_legend();
plt.show()
```

```
C:\Users\DGVC\anaconda3\lib\site-packages\seaborn\axisgrid.py:316: UserWarning: The `size` parameter has been renamed to `h
eight`; please update your code.
  warnings.warn(msg, UserWarning)
```



In [18]:

```python
sns.pairplot(df,hue="Country",size=5)
```

```
C:\Users\DGVC\anaconda3\lib\site-packages\seaborn\axisgrid.py:1912: UserWarning: The `size` parameter has been renamed to `
height`; please update your code.
  warnings.warn(msg, UserWarning)
C:\Users\DGVC\anaconda3\lib\site-packages\seaborn\distributions.py:305: UserWarning: Dataset has 0 variance; skipping densi
ty estimate.
  warnings.warn(msg, UserWarning)
C:\Users\DGVC\anaconda3\lib\site-packages\seaborn\distributions.py:305: UserWarning: Dataset has 0 variance; skipping densi
ty estimate.
  warnings.warn(msg, UserWarning)
C:\Users\DGVC\anaconda3\lib\site-packages\seaborn\distributions.py:305: UserWarning: Dataset has 0 variance; skipping densi
ty estimate.
  warnings.warn(msg, UserWarning)
C:\Users\DGVC\anaconda3\lib\site-packages\seaborn\distributions.py:305: UserWarning: Dataset has 0 variance; skipping densi
ty estimate.
  warnings.warn(msg, UserWarning)
C:\Users\DGVC\anaconda3\lib\site-packages\seaborn\distributions.py:305: UserWarning: Dataset has 0 variance; skipping densi
ty estimate.
  warnings.warn(msg, UserWarning)
C:\Users\DGVC\anaconda3\lib\site-packages\seaborn\distributions.py:305: UserWarning: Dataset has 0 variance; skipping densi
ty estimate.
  warnings.warn(msg, UserWarning)
C:\Users\DGVC\anaconda3\lib\site-packages\seaborn\distributions.py:305: UserWarning: Dataset has 0 variance; skipping densi
ty estimate.
  warnings.warn(msg, UserWarning)
C:\Users\DGVC\anaconda3\lib\site-packages\seaborn\distributions.py:305: UserWarning: Dataset has 0 variance; skipping densi
ty estimate.
  warnings.warn(msg, UserWarning)
C:\Users\DGVC\anaconda3\lib\site-packages\seaborn\distributions.py:305: UserWarning: Dataset has 0 variance; skipping densi
ty estimate.
  warnings.warn(msg, UserWarning)
C:\Users\DGVC\anaconda3\lib\site-packages\seaborn\distributions.py:305: UserWarning: Dataset has 0 variance; skipping densi
ty estimate.
  warnings.warn(msg, UserWarning)
```

Out[18]:

```
<seaborn.axisgrid.PairGrid at 0x1fe023e4310>
```