

Business Problem : Perform EDA on Ecommerce dataset

Importing Essentials Libraries

```
In [1]: import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import datetime as dt
sns.set_option('display.max_columns', None)
sns.set_option('display.max_rows', None)
```

Importing Dataset

```
In [2]: df=pd.read_csv("Ecommerce.csv",encoding='unicode_escape')
```

Sample data

```
In [3]: df.head(2)
Out[3]:
```

	InvoiceNo	StockCode	Description	Quantity	InvoiceDate	UnitPrice	CustomerID	Country
0	536365	85123A	WHITE HANGING HEART T-LIGHT HOLDER	6	12-01-2010 08:26	2.55	178500	United Kingdom
1	536365	71053	WHITE METAL LANTERN	6	12-01-2010 08:26	3.39	178500	United Kingdom

```
In [4]: df.shape
Out[4]: (541909, 8)
```

1. Perform Basic EDA

```
In [5]: df.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 541909 entries, 0 to 541908
Data columns (total 8 columns):
 #   Column        Non-Null Count  Dtype
---  --
 0   InvoiceNo     541909 non-null object
 1   StockCode    541909 non-null object
 2   Description   540455 non-null object
 3   Quantity     541909 non-null int64
 4   InvoiceDate   541909 non-null object
 5   UnitPrice    541909 non-null float64
 6   CustomerID   406829 non-null float64
 7   Country      541909 non-null object
dtypes: float64(2), int64(1), object(5)
memory usage: 33.1+ MB
```

Boxplot – All Numeric Variables

```
In [6]: df.dtypes
Out[6]:
```

	InvoiceNo	StockCode	Description	Quantity	InvoiceDate	UnitPrice	CustomerID	Country
0	object	object	object	int64	object	float64	float64	object
1	object	object	object	int64	object	float64	float64	object
2	object	object	object	int64	object	float64	float64	object
3	object	object	object	int64	object	float64	float64	object
4	object	object	object	int64	object	float64	float64	object

a) Boxplot – All Numeric Variables

```
In [8]: df['Quantity'].sort_values().value_counts()
Out[8]:
```

	Quantity	UnitPrice	CustomerID
0	6	2.55	178500
1	6	3.39	178500
2	8	2.75	178500
3	6	3.39	178500
4	6	3.39	178500

```
In [9]: df['Quantity'].max()
Out[9]: 80995
In [10]: df['Quantity'].describe().round(2)
Out[10]:
```

	count	mean	std	min	25%	50%	75%	max
Quantity	541909.00	9.55	218.08	-80995.00	1.00	3.00	10.00	80995.00
UnitPrice	541909.00	9.55	218.08	-80995.00	1.00	3.00	10.00	80995.00
CustomerID	541909.00	9.55	218.08	-80995.00	1.00	3.00	10.00	80995.00

```
In [11]: df['UnitPrice'].describe().round(2)
Out[11]:
```

	count	mean	std	min	25%	50%	75%	max
UnitPrice	541909.00	9.55	218.08	-80995.00	1.00	3.00	10.00	80995.00
UnitPrice	541909.00	9.55	218.08	-80995.00	1.00	3.00	10.00	80995.00
CustomerID	541909.00	9.55	218.08	-80995.00	1.00	3.00	10.00	80995.00

```
In [12]: df['CustomerID'].describe().round(2)
Out[12]:
```

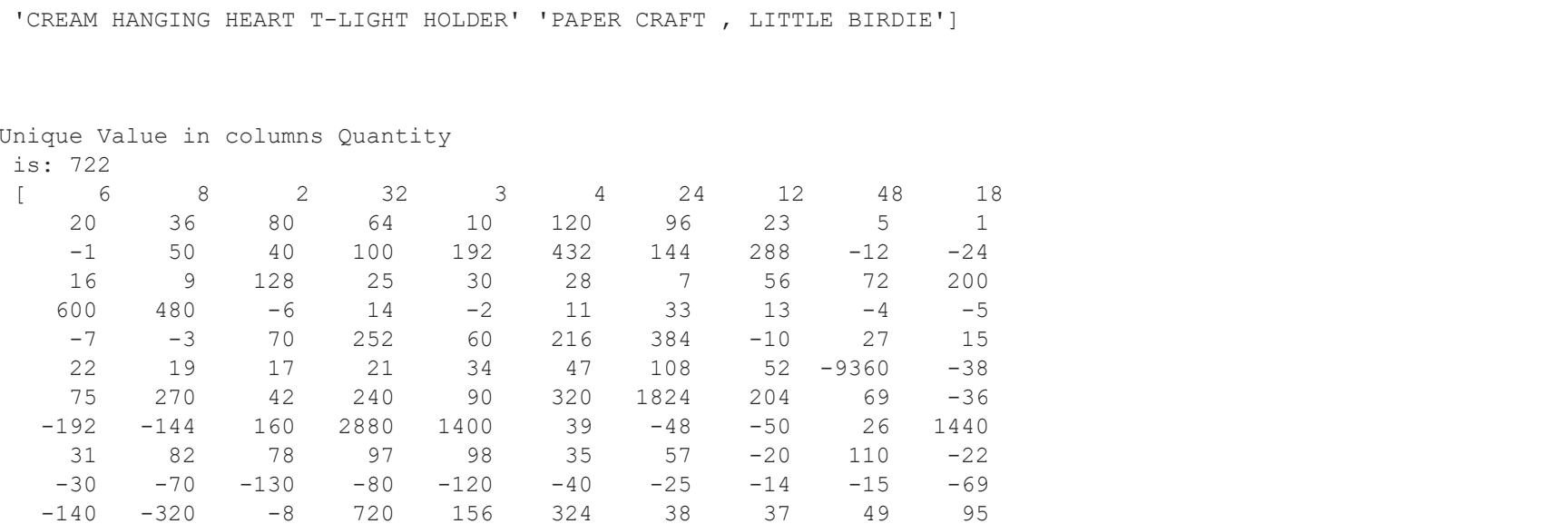
	count	mean	std	min	25%	50%	75%	max
CustomerID	406829.00	15287.69	143.60	12346.00	13953.00	15152.00	16791.00	18287.00
CustomerID	406829.00	15287.69	143.60	12346.00	13953.00	15152.00	16791.00	18287.00
UnitPrice	541909.00	9.55	218.08	-80995.00	1.00	3.00	10.00	80995.00

```
In [13]: df['Quantity'].min()
Out[13]: -80995
In [14]: ax=numeric.plt.box(figsize=(15,5),title='Box and whisker plot for numeric variable',fontsize=15,grid=True,color='red')
ax.set_title('Box Plot of All Numeric Variables')
ax = sns.boxplot(data=numeric, linewidth=2.5,grid=True)
Text(0.5, 1.0, 'Box Plot of All Numeric Variables')
```



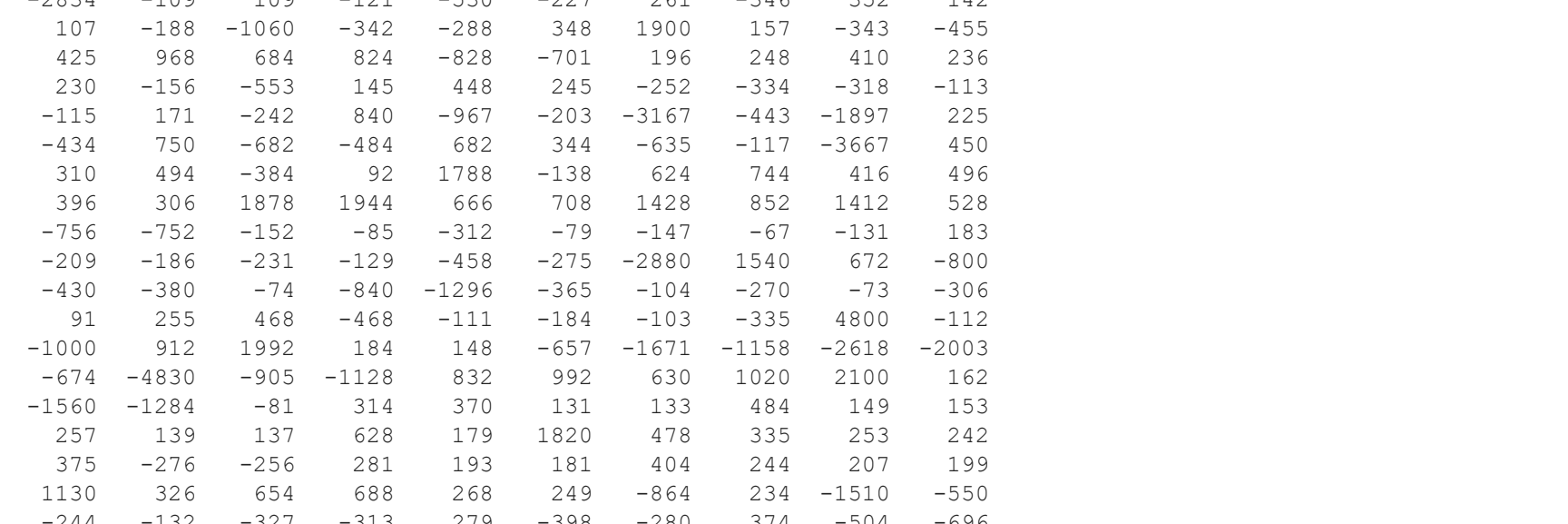
b. Histogram – All Numeric Variables

```
In [15]: ax = numeric.hist(bins=15, grid=True, figsize=(15,5), color='red')
plt.title('Histogram for numeric variable')
Text(0.5, 1.0, 'Histogram for numeric variable')
```



c. Distribution Plot – All Numeric Variables

```
In [82]: import numpy as np
fig=plt.figure(figsize=(16,4))
df=df.tail(10000)## Whole data was taking time ,So I Opt for small sample for plotting
sns.displot(df['UnitPrice'], label='Unit Price')
plt.title('Distribution Plot of Unit Price variables')
plt.legend()
Text(0.5, 1.0, 'Distribution Plot of Unit Price variables')
```



```
In [84]: fig=plt.figure(figsize=(16,4))
df=df.head(1000)
sns.displot(df['Quantity'], label='Quantity')
plt.title('Distribution Plot of Quantity variables')
Text(0.5, 1.0, 'Distribution Plot of Quantity variables')
```



d. Aggregation for all numerical Columns

```
In [17]: df.describe().round(2)
Out[17]:
```

	Quantity	UnitPrice	CustomerID
count	541909.00	541909.00	406829.00
mean	9.55	4.61	15287.69
std	218.08	96.76	173.60
min	-80995.00	-11062.06	12346.00
25%	1.00	1.25	13953.00
50%	3.00	2.08	15152.00
75%	10.00	4.13	16791.00
max	80995.00	38970.00	18287.00

e. Unique Values across all columns

```
In [18]: df.columns
Out[18]:
```

	InvoiceNo	StockCode	Description	Quantity	InvoiceDate	UnitPrice	CustomerID	Country
0	object	object	object	int64	object	float64	float64	object
1	object	object	object	int64	object	float64	float64	object
2	object	object	object	int64	object	float64	float64	object
3	object	object	object	int64	object	float64	float64	object
4	object	object	object	int64	object	float64	float64	object

```
In [19]: col=['InvoiceNo','StockCode','Description','Quantity','InvoiceDate','UnitPrice','CustomerID','Country']
In [20]: for i in df.columns:
print(f'Unique Value in columns {i} is: {str(len(df[i].unique()))} \n {df[i].unique()}\n\n')
```

```
Unique Value in columns InvoiceNo
is: 25950
['536365' '536366' '536367' ... '581585' '581586' '581587']

Unique Value in columns StockCode
is: 4070
['85123A' '71053' '84406B' ... '902140' '47591B' '23643']

Unique Value in columns Description
is: 4224
['WHITE HANGING HEART T-LIGHT HOLDER' 'WHITE METAL LANTERN'
'CREAM CURVED HEARTY CANT HANGER' 'Lamp'
'CREAM HANGING HEART T-LIGHT HOLDER' 'PAPER CRAFT', 'LITTLE BIRDIE']

Unique Value in columns Quantity
is: 722
[ 6 8 2 32 3 4 24 12 48 18
 20 36 80 64 10 120 96 23 5 1
 -1 50 40 100 192 432 144 288 -12 -24
 16 9 128 25 30 28 7 56 72 200
 600 480 -6 14 -2 11 33 13 -4 -5
 7 -3 70 252 60 216 384 -10 27 15
 22 19 17 21 34 47 108 52 -9360 -38
 75 270 42 240 90 320 1824 204 69 -36
 -192 -144 160 2880 1400 39 -48 -50 26 1440
 31 82 78 97 98 35 57 -20 110 -22
 -30 -70 -130 -80 -120 -40 -25 -14 -15 -69
 -140 -320 -8 -720 156 324 38 37 49 95
 -9 -11 29 41 -72 -35 -21 -43 -19 -18
 -44 402 378 150 300 54 104 67 238 66
 148 55 46 98 61 408 972 208 1008 1000
 -77 1488 250 1394 400 -223 -150 -13 -33 -723
 -177 79 84 -32 -100 -28 272 -145 -47 -96
 113 45 106 68 267 115 45 1728 -60 -16
 53 -240 76 460 71 43 213 58 576 2400
 500 180 -300 -500 -23 752 960 1296 210 172
 586 129 138 116 135 197 -106 -54 -17 -939
 147 168 256 -201 -53 -29 -2600 -190 -290 -45
 860 1010 1356 1284 186 114 360 1930 2000 3114
 1300 670 111 211 58 -210 -61 -41 176 648
 62 74215 -74215 -64 -84 89 -1400 73 -57 112
 456 -59 -31 5568 2560 136 900 -600 -42 -94
 215 129 138 116 135 197 -106 -54 -17 -939
 123 118 -76 -200 1056 1500 280 407 141 124
 -52 130 -206 2592 420 800 101 1200 864
 -217 94 -1430 1287 -162 -230 -173 -390 -234 504
 228 -154 -3000 81 -675 -210 -345 -975 -1200 -1121
 198 117 86 -1720 125 -86 -391 -87 -278 140
 -323 -450 -232 -83 -153 -524 -2472 -49 -105 342
 230 167 -34 640 175 220 14 93 164 163
 63 637 122 158 165 350 -46 -75 -690 -39
 -66 83 312 -180 392 624 -194 -26 -62 -37
 -208 -360 105 -960 -2376 1350 428 -1580 376 -786
 -432 -58 -1092 -670 -1300 -1930 -3014 462 -65
 -590 -168 -101 -71 132 -413 -664 227 2700 222
 246 906 756 888 552 -97 224 738 608 -212
 1000 146 143 276 125 -116 -108 4000 -304 -272
 -1206 -95 1600 323 -161 -472 -618 -204 1515 -1515
 -9058 -9600 660 -420 -126 -220 -271 -1440 264 188
 586 612 152 -324 480 -164 -18 -118 430 -1681
 87 155 701 828 540 696 560 -250 -408 -179
 121 -124 512 -251 -3100 3100 -169 326 291 3186
 -1008 -109 108 121 530 -227 261 -166 352 142
 107 -188 -1060 -342 -288 348 1900 157 -343 -455
 425 968 684 824 -828 701 196 248 410 236
 537 -156 -553 145 448 245 -252 -334 -318 -113
 -115 171 -242 840 -967 -203 -3167 -643 -1897 225
 -434 750 -682 -484 682 344 -635 -117 -3667 450
 310 494 -384 92 1788 -138 624 744 416 496
 396 306 1878 1944 666 708 1428 852 1412 528
 -756 -752 -152 -85 -312 -79 -147 -67 -131 183
 -208 -186 -231 -129 458 -275 -2840 1440 672 -890
 -430 -380 -74 -840 -1296 -365 -104 -270 73 -306
 91 255 468 -468 -111 -184 -103 -335 4800 -112
 -1008 912 1982 184 148 -657 -167 -138 -2618 -2003
 -674 -4830 -905 -1128 832 992 630 1020 2100 162
 1130 326 654 688 268 249 -864 234 -1510 -950
 537 -132 -3572 281 275 -398 -240 374 -504 956
 -149 -224 -428 212 -267 -175 12540 760 -98 774
 -151 2040 -1131 -135 1120 77 -9040 377 490 388
 13080 1404 -185 -355 -337 -1050 -338 205 -235 698
 80995 -80995]
```

```
Unique Value in columns InvoiceDate
is: 23860
['12-01-2010 08:26' '12-01-2010 08:28' '12-01-2010 08:34' ...
'12-09-2011 12:31' '12-09-2011 12:49' '12-09-2011 12:50']

Unique Value in columns UnitPrice
is: 1630
[ 2.55 3.39 2.75 ... 933.17 1714.17 224.69]

Unique Value in columns CustomerID
is: 4373
[178500 13047. 12583. ... 13298. 14569. 12713.]

Unique Value in columns Country
is: 38
['United Kingdom' 'France' 'Australia' 'Netherlands' 'Germany' 'Norway'
'Belgium' 'Switzerland' 'Spain' 'Poland' 'Portugal' 'Italy' 'Belgium'
'Lithuania' 'Japan' 'Iceland' 'Channel Islands' 'Denmark' 'Cyprus'
'Sweden' 'Austria' 'Israel' 'Finland' 'Bahrain' 'Greece' 'Hong Kong'
'Singapore' 'Tahiti' 'United Arab Emirates' 'Saudi Arabia'
'Czech Republic' 'Canada' 'Unspecified' 'Brazil' 'USA'
'European Community' 'Malta' 'RSA']

f. Duplicate values across all columns
```

```
In [21]: df.shape
Out[21]: (541909, 8)
In [22]: print(f'Duplicated Rows in data are -->{df[df.duplicated()]}')
Duplicated Rows in data are -->
```

```
InvoiceNo StockCode Description Quantity \
517 536409 21866 UNION JACK FLAG JUGUAGE TAG 1
527 536409 22866 BAND WARMER SCOTTY DOG DESIGN 1
537 536409 22800 SET 2 TEA TOWELS I LOVE LONDON 1
539 536409 22111 SCOTTIE DOG HOT WATER BOTTLE 1
555 536412 22323 ROUND ENAMEL BOXES SET OF 4 SHILLS 1
... ..
541675 581538 22068 SLACK PIRATE TREASURE CHEST 1
541689 581538 23118 BOX OF 6 MINI VINTAGE CIGARETTES 1
541692 581538 22992 REVOLVER WOODEN RULER 1
541699 581538 22694 WICKER STAR 1
541701 581538 23343 JUMBO BAG VINTAGE CHRISTMAS 1
```

```
517 12-01-2010 11:45 1.25 17908.0 United Kingdom
527 12-01-2010 11:45 2.10 17908.0 United Kingdom
537 12-01-2010 11:45 2.95 17908.0 United Kingdom
539 12-01-2010 11:45 4.95 17908.0 United Kingdom
555 12-01-2010 11:49 2.95 17920.0 United Kingdom
... ..
541675 12-09-2011 11:34 0.38 14446.0 United Kingdom
541689 12-09-2011 11:34 2.49 14446.0 United Kingdom
541692 12-09-2011 11:34 1.95 14446.0 United Kingdom
541699 12-09-2011 11:34 2.10 14446.0 United Kingdom
541701 12-09-2011 11:34 2.08 14446.0 United Kingdom
```

g. Correlation – Heatmap - All Numeric Variables

```
In [23]: df.corr()
Out[23]:
```

	Quantity	UnitPrice	CustomerID
Quantity	1.000000	-0.001235	-0.000360
UnitPrice	-0.001235	1.000000	-0.004560
CustomerID	-0.003600	-0.004560	1.000000

```
In [24]: sns.heatmap(df.corr())
Out[24]:
```

h. Regression Plot - All Numeric Variables

```
In [75]: df=df.head(1000)## Whole data was taking time ,So I Opt for small sample for plotting
sns.displot(df['UnitPrice'], label='Unit Price')
sns.jointplot(df['UnitPrice'], df['Quantity'], data=df3, kind='reg')
plt.title('Joint Plot of UnitPrice and Quantity')
sns.set_option('display.max_columns', None)
sns.set_option('display.max_rows', None)
sns.jointplot(df3, diag_kind='kde')
```



j. Pair plot - All Numeric Variables

```
In [74]: #sns.pairplot(df,vars=["Quantity","UnitPrice","Revenue","Month","Day"])
df=df.head(25000)## Whole data was taking time ,So I Opt for small sample for plotting
sns.jointplot(df3, diag_kind='kde')
sns.pairplot(df3, diag_kind='kde')
```



i. Plot the skewness - All Numeric Variables

```
In [27]: df.skew()
Out[27]:
```

	Quantity	UnitPrice	CustomerID
Quantity	-0.264076	186.506972	0.029835
UnitPrice	186.506972	0.029835	0.029835
CustomerID	0.029835	0.029835	0.029835

2. Check for missing values in all columns and replace them with the appropriate metric

(Mean/Median/Mode)

```
In [29]: for i in df.columns:
print(f'Missing values in columns : {i} \n {df[i].isnull().sum()}')
Missing values in columns : InvoiceNo
0
Missing values in columns : StockCode
1454
Missing values in columns : Description
0
Missing values in columns : Quantity
0
Missing values in columns : InvoiceDate
0
Missing values in columns : UnitPrice
0
Missing values in columns : CustomerID
13080
Missing values in columns : Country
0
```

```
In [30]: df.dtypes
Out[30]:
```

	InvoiceNo	StockCode	Description	Quantity	InvoiceDate	UnitPrice	CustomerID	Country
0	object	object	object	int64	object	float64	float64	object
1	object	object	object	int64	object	float64	float64	object
2	object	object	object	int64	object	float64	float64	object
3	object	object	object	int64	object	float64	float64	object
4	object	object	object	int64	object	float64	float64	object

```
In [31]: df.Description.value_counts()
Out[31]:
```

	WHITE HANGING HEART T-LIGHT HOLDER	WHITE METAL LANTERN	REGENCY CASKET AND 3 TIER	TWING BAG RED RETROSPOOT	LUNCH BUNTING	PARTY BUNTING	WHITE METAL LANTERN	WHITE METAL LANTERN	WHITE METAL LANTERN
0	2369	2200	2159	1727	1638	1638	1638	1638	1638
1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1	1

```
In [32]: df['Description'] = df['Description'].fillna(df.Description.mode())
In [33]: df['Description'].isnull().sum()
Out[33]: 1454
In [34]: df['Description'] = df['Description'].fillna(df.Description.mode())
In [35]: pd.set_option('display.max_columns', None)
pd.set_option('display.max_rows', None)
In [36]: df[df['Description'].isnull()]
```


InvoiceNo	StockCode	Description	Quantity	InvoiceDate		UnitPrice	CustomerID	Country	
				InvoiceDate	UnitPrice				
622	536424	22139	NaN	56	12-01-2010	11.52	0.0	NaN	United Kingdom
1970	536545	45134	NaN	1	12-01-2010	14.32	0.0	NaN	United Kingdom
1971	536546	32745	NaN	1	12-01-2010	14.33	0.0	NaN	United Kingdom
1972	536547	22109	NaN	1	12-01-2010	14.33	0.0	NaN	United Kingdom
1987	536549	85226A	NaN	1	12-01-2010	14.34	0.0	NaN	United Kingdom
1988	536550	85044	NaN	1	12-01-2010	14.34	0.0	NaN	United Kingdom
2024	536552	20950	NaN	1	12-01-2010	14.34	0.0	NaN	United Kingdom
2025	536553	37461	NaN	3	12-01-2010	14.35	0.0	NaN	United Kingdom
2026	536554	84670	NaN	23	12-01-2010	14.35	0.0	NaN	United Kingdom
2406	536589	21777	NaN	-10	12-01-2010	14.42	0.0	NaN	United Kingdom
4347	536764	84952C	NaN	-38	12-02-2010	14.42	0.0	NaN	United Kingdom
4348	536765	84952C	NaN	19	12-02-2010	14.43	0.0	NaN	United Kingdom
7187	536795	35951	NaN	57	12-03-2010	15.29	0.0	NaN	United Kingdom
7188	536996	22712	NaN	-20	12-03-2010	15.30	0.0	NaN	United Kingdom
7189	536997	22208	NaN	-20	12-03-2010	15.30	0.0	NaN	United Kingdom
7190	536998	85067	NaN	-6	12-03-2010	15.30	0.0	NaN	United Kingdom
7191	536999	21421	NaN	-11	12-03-2010	15.32	0.0	NaN	United Kingdom
7192	537000	21414	NaN	-22	12-03-2010	15.32	0.0	NaN	United Kingdom
7193	537001	21653	NaN	-6	12-03-2010	15.33	0.0	NaN	United Kingdom
7194	537002	21651	NaN	70	12-03-2010	15.33	0.0	NaN	United Kingdom
7195	537003	85126	NaN	-2	12-03-2010	15.33	0.0	NaN	United Kingdom
7196	537004	21814	NaN	-30	12-03-2010	15.34	0.0	NaN	United Kingdom
7197	537005	21692	NaN	-70	12-03-2010	15.35	0.0	NaN	United Kingdom
7198	537006	21648	NaN	-130	12-03-2010	15.36	0.0	NaN	United Kingdom
7199	537007	21172	NaN	-80	12-03-2010	15.36	0.0	NaN	United Kingdom
7200	537008	21161	NaN	-120	12-03-2010	15.37	0.0	NaN	United Kingdom
7201	537009	845348	NaN	-80	12-03-2010	15.38	0.0	NaN	United Kingdom
7202	537010	22162	NaN	-40	12-03-2010	15.38	0.0	NaN	United Kingdom
7203	537011	22139	NaN	-5	12-03-2010	15.38	0.0	NaN	United Kingdom
7204	537012	21535	NaN	-12	12-03-2010	15.39	0.0	NaN	United Kingdom
7205	537013	35965	NaN	-25	12-03-2010	15.40	0.0	NaN	United Kingdom
7206	537014	21040	NaN	-20	12-03-2010	15.40	0.0	NaN	United Kingdom
7207	537015	37464	NaN	-14	12-03-2010	15.41	0.0	NaN	United Kingdom
7208	537016	21836	NaN	-15	12-03-2010	15.41	0.0	NaN	United Kingdom
7209	537017	475568	NaN	-69	12-03-2010	15.41	0.0	NaN	United Kingdom
7210	537018	84562A	NaN	-3	12-03-2010	15.42	0.0	NaN	United Kingdom
7211	537019	37474	NaN	-15	12-03-2010	15.43	0.0	NaN	United Kingdom
7212	537020	21807	NaN	-30	12-03-2010	15.43	0.0	NaN	United Kingdom
7213	537021	21011	NaN	-20	12-03-2010	15.43	0.0	NaN	United Kingdom
7214	537027	10808C	NaN	-140	12-03-2010	15.36	0.0	NaN	United Kingdom
7292	537028	21696	NaN	-320	12-03-2010	16.36	0.0	NaN	United Kingdom
7293	537029	37476	NaN	-6	12-03-2010	16.37	0.0	NaN	United Kingdom
12008	537361	21777	NaN	5	12-06-2010	12.34	0.0	NaN	United Kingdom
12069	537363	845698	NaN	-20	12-06-2010	12.35	0.0	NaN	United Kingdom
12070	537364	21027	NaN	-70	12-06-2010	12.36	0.0	NaN	United Kingdom
12934	537401	84898F	NaN	-24	12-06-2010	14.37	0.0	NaN	United Kingdom
12934	537427	848688	NaN	-21	12-06-2010	15.37	0.0	NaN	United Kingdom
13263	537430	85215	NaN	120	12-06-2010	16.05	0.0	NaN	United Kingdom
13959	537436	84270	NaN	7	12-06-2010	17.00	0.0	NaN	United Kingdom
13960	537437	90167	NaN	10	12-06-2010	17.00	0.0	NaN	United Kingdom
13961	537438	22599	NaN	13	12-06-2010	17.01	0.0	NaN	United Kingdom
13962	537439	37474	NaN	1	12-06-2010	17.00	0.0	NaN	United Kingdom
14060	537449	21054	NaN	-30	12-07-2010	09.26	0.0	NaN	United Kingdom
14061	537450	20684	NaN	-19	12-07-2010	09.26	0.0	NaN	United Kingdom
14062	537451	84881	NaN	-11	12-07-2010	09.27	0.0	NaN	United Kingdom
14063	537452	20941	NaN	-24	12-07-2010	09.28	0.0	NaN	United Kingdom
14064	537453	21248	NaN	-18	12-07-2010	09.28	0.0	NaN	United Kingdom
14065	537454	21349	NaN	-44	12-07-2010	09.30	0.0	NaN	United Kingdom
14066	537455	22155	NaN	-70	12-07-2010	09.31	0.0	NaN	United Kingdom
14217	537466	21488	NaN	-50	12-07-2010	10.03	0.0	NaN	United Kingdom
17158	537687	84140	NaN	-9	12-08-2010	10.26	0.0	NaN	United Kingdom
19599	537870	21486	NaN	-77	12-08-2010	17.08	0.0	NaN	United Kingdom
19625	537872	21595	NaN	1	12-08-2010	18.07	0.0	NaN	United Kingdom
19626	537873	37461	NaN	1	12-08-2010	18.07	0.0	NaN	United Kingdom
19627	537874	85170A	NaN	1	12-08-2010	18.07	0.0	NaN	United Kingdom
19628	537875	20849	NaN	1	12-08-2010	18.08	0.0	NaN	United Kingdom
19629	537876	84977	NaN	2	12-08-2010	18.08	0.0	NaN	United Kingdom
19630	537877	21661	NaN	1	12-08-2010	18.08	0.0	NaN	United Kingdom
19631	537878	728038	NaN	1	12-08-2010	18.09	0.0	NaN	United Kingdom
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19999	538001	35958	NaN	10	12-09-2010	11.45	0.0	NaN	United Kingdom
20037	538004	22114	NaN	144	12-09-2010	12.11	0.0	NaN	United Kingdom
20324	538036	21900	NaN	34	12-09-2010	13.04	0.0	NaN	United Kingdom
20330	538038	21488	NaN	8	12-09-2010	13.07	0.0	NaN	United Kingdom
20331	538039	22139	NaN	7	12-09-2010	13.07	0.0	NaN	United Kingdom
20392	538041	22145	NaN	30	12-09-2010	13.09	0.0	NaN	United Kingdom
20393	538042	21763	NaN	-4	12-09-2010	13.10	0.0	NaN	United Kingdom
20394	538043	22833	NaN	-1	12-09-2010	13.10	0.0	NaN	United Kingdom
20398	538045	84688	NaN	27	12-09-2010	13.11	0.0	NaN	United Kingdom
20399	538046	85008	NaN	-15	12-09-2010	13.12	0.0	NaN	United Kingdom
20400	538047	21429	NaN	-70	12-09-2010	13.13	0.0	NaN	United Kingdom
20469	538054	851678	NaN	-24	12-09-2010	13.34	0.0	NaN	United Kingdom
20470	538055	22454	NaN	-20	12-09-2010	13.34	0.0	NaN	United Kingdom
20506	538058	20866	NaN	-150	12-09-2010	13.38	0.0	NaN	United Kingdom
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21249	538074	21743	NaN	-80	12-09-2010	14.31	0.0	NaN	United Kingdom
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21779	538130	90042C	NaN	10	12-09-2010	15.55	0.0	NaN	United Kingdom
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21782	538133	85018C	NaN	3	12-09-2010	15.56	0.0	NaN	United Kingdom
21783	538134	20878	NaN	2	12-09-2010	15.57	0.0	NaN	United Kingdom
21784	538135	21186	NaN	2	12-09-2010	15.56	0.0	NaN	United Kingdom
21785	538136	37509	NaN	2	12-09-2010	15.57	0.0	NaN	United Kingdom
21786	538137	620958	NaN	2	12-09-2010	15.57	0.0	NaN	United Kingdom
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21790	538141	22218	NaN	1	12-09-2010	15.58	0.0	NaN	United Kingdom
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22534	538173	22533	NaN	-28	12-10-2010	09.25	0.0	NaN	United Kingdom
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148082	549158	21910	NaN	-1	04-06-2011	17.13	0.0	NaN	United Kingdom
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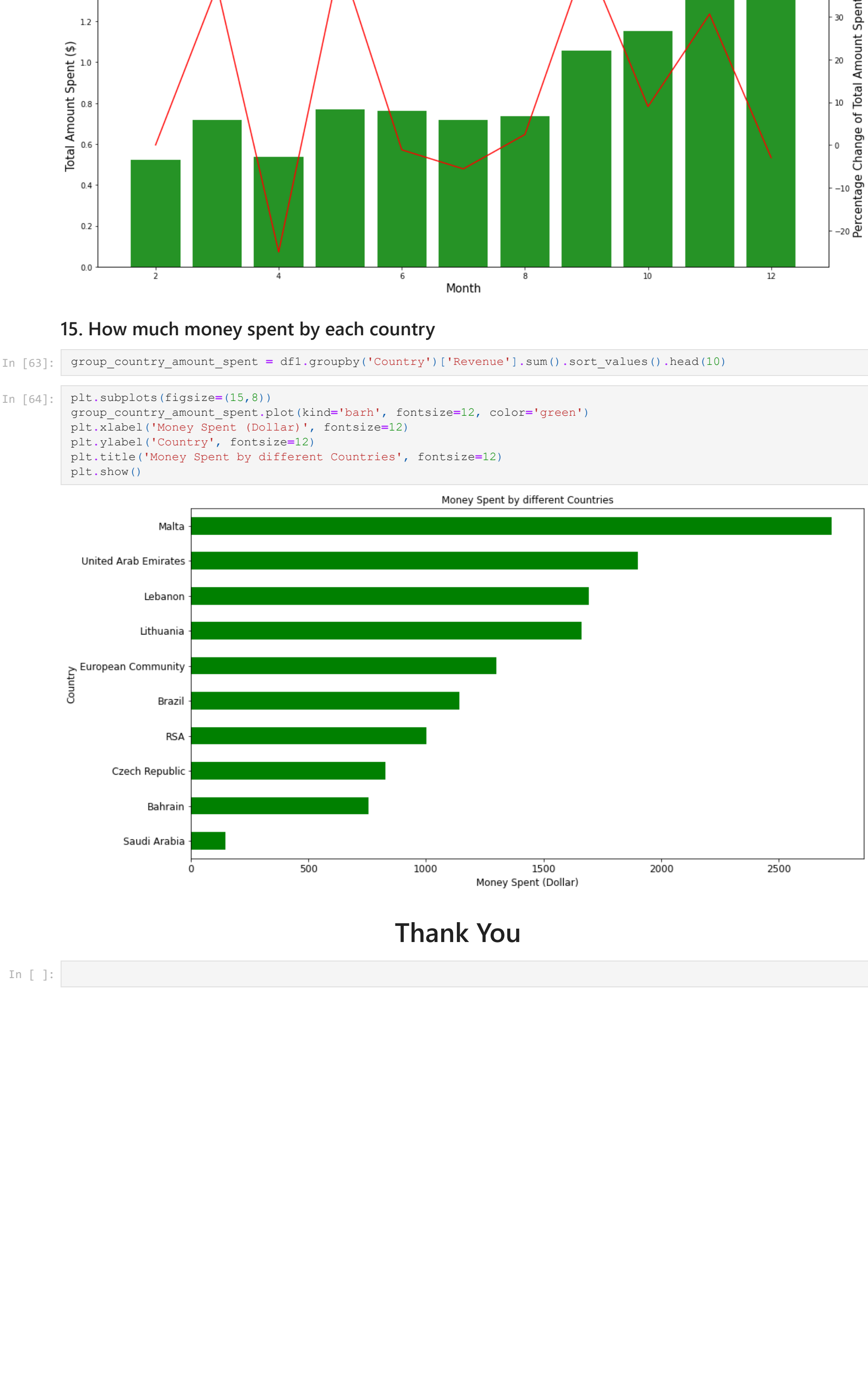
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1828	14828.0	United Kingdom	2139.760
1829	14829.0	United Kingdom	697.550
1830	14830.0	United Kingdom	152.880
1831	14834.0	United Kingdom	1720.300
1832	14836.0	United Kingdom	102.450
1833	14837.0	United Kingdom	142.400
1834	14840.0	United Kingdom	622.850
1835	14841.0	United Kingdom	3295.760
1836	14842.0	United Kingdom	454.490
1837	14844.0	United Kingdom	3189.810
1838	14847.0	United Kingdom	309.400
1839	14848.0	United Kingdom	309.400
1840	14850.0	United Kingdom	325.750
1841	14851.0	United Kingdom	351.350
1842	14852.0	United Kingdom	285.990
1843	14853.0	United Kingdom	475.880
1844	14854.0	United Kingdom	2740.030
1845	14855.0	United Kingdom	3149.190
1846	14856.0	United Kingdom	1290.530
1847	14857.0	United Kingdom	1173.120
1848	14858.0	United Kingdom	1250.960
1849	14860.0	United Kingdom	170.320
1850	14863.0	United Kingdom	125.790
1851	14864.0	United Kingdom	293.490
1852	14863.0	United Kingdom	266.760
1853	14865.0	United Kingdom	322.200
1854	14866.0	United Kingdom	432.700
1855	14867.0	United Kingdom	710.280
1856	14868.0	United Kingdom	2953.590
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1858	14870.0	United Kingdom	327.250
1859	14871.0	United Kingdom	501.280
1860	14872.0	United Kingdom	953.140
1861	14875.0	United Kingdom	1465.320
1862	14878.0	United Kingdom	1476.090
1863	14879.0	United Kingdom	255.400
1864	14881.0	United Kingdom	255.400
1865	14882.0	United Kingdom	589.700
1866	14883.0	United Kingdom	589.700
1867	14885.0	United Kingdom	765.320
1868	14886.0	United Kingdom	364.200
1869	14887.0	United Kingdom	364.200
1870	14888.0	United Kingdom	369.280
1871	14889.0	United Kingdom	135.900
1872	14890.0	United Kingdom	135.900
1873	14891.0	United Kingdom	554.980
1874	14893.0	United Kingdom	1237.850
1875	14894.0	United Kingdom	1237.850
1876	14895.0	United Kingdom	1138.710
1877	14896.0	United Kingdom	468.770
1878	14897.0	United Kingdom	193.700
1879	14898.0	United Kingdom	1269.310
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1881	14902.0	United Kingdom	1421.290
1882	14903.0	United Kingdom	2795.330
1883	14904.0	United Kingdom	1025.440
1884	14905.0	United Kingdom	279.100
1885	14907.0	United Kingdom	3501.100
1886	14908.0	United Kingdom	277.800
1887	14909.0	United Kingdom	277.800
1888	14911.0	IRE	143711.170
1889	14912.0	Italy	867.450
1890	14913.0	United Kingdom	279.100
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1895	14921.0	United Kingdom	1316.070
1896	14922.0	United Kingdom	125.610
1897	14924.0	United Kingdom	310.050
1898	14929.0	United Kingdom	223.880
1899	14930.0	Channel Islands	3502.900
1900	14931.0	Channel Islands	1257.680
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1902	14933.0	Channel Islands	369.640
1903	14935.0	Channel Islands	1784.710
1904	14936.0	Channel Islands	8937.020
1905	14937.0	Channel Islands	1425.630
1906	14944.0	United Kingdom	5900.250
1907	14946.0	United Kingdom	100.800
1908	14947.0	United Kingdom	293.490
1909	14948.0	United Kingdom	1101.970
1910	14950.0	United Kingdom	371.200
1911	14951.0	United Kingdom	623.170
1912	14952.0	United Kingdom	8099.490
1913	14953.0	United Kingdom	285.670
1914	14954.0	United Kingdom	267.400
1915	14957.0	United Kingdom	58.490
1916	14958.0	United Kingdom	463.730
1917	14959.0	United Kingdom	259.100
1918	14960.0	United Kingdom	221.270
1919	14961.0	United Kingdom	7044.680
1920	14962.0	United Kingdom	708.120
1921	14963.0	United Kingdom	1472.340
1922	14964.0	United Kingdom	206.210
1923	14965.0	United Kingdom	179.090
1924	14966.0	United Kingdom	183.020
1925	14967.0	United Kingdom	463.800
1926	14968.0	United Kingdom	140.940
1927	14970.0	United Kingdom	1592.060
1928	14971.0	United Kingdom	197.980
1929	14972.0	United Kingdom	127.170
1930	14973.0	United Kingdom	1314.450
1931	14974.0	United Kingdom	89.940
1932	14975.0	United Kingdom	298.100
1933	14976.0	United Kingdom	790.860
1934	14978.0	United Kingdom	1921.370
1935	14980.0	United Kingdom	402.640
1936	14984.0	United Kingdom	202.370
1937	14985.0	United Kingdom	292.010
1938	14986.0	United Kingdom	152.450
1939	14988.0	United Kingdom	334.540
1940	14995.0	United Kingdom	231.980
1941	14996.0	United Kingdom	276.150
1942	14998.0	United Kingdom	414.870
1943	15000.0	United Kingdom	490.520
1944	15002.0	United Kingdom	143.170
1945	15004.0	United Kingdom	1220.770
1946	15005.0	United Kingdom	6295.370
1947	15006.0	United Kingdom	486.900
1948	15007.0	United Kingdom	156.910
1949	15009.0	United Kingdom	1259.430
1950	15010.0	United Kingdom	297.640
1951	15012.0	United Kingdom	405.040
1952	15014.0	United Kingdom	257.670
1953	15015.0	United Kingdom	273.500
1954	15017.0	United Kingdom	125.980
1955	15018.0	United Kingdom	496.210
1956	15019.0	United Kingdom	463.100
1957	15021.0	United Kingdom	1871.770
1958	15022.0	United Kingdom	852.390
1959	15023.0	United Kingdom	626.000
1960	15024.0	United Kingdom	1636.430
1961	15025.0	United Kingdom	361.860
1962	15026.0	United Kingdom	361.860
1963	15027.0	United Kingdom	1066.150
1964	15028.0	United Kingdom	627.130
1965	15030.0	United Kingdom	546.160
1966	15031.0	United Kingdom	653.190
1967	15032.0	United Kingdom	4959.100
1968	15033.0	United Kingdom	259.120
1969	15034.0	United Kingdom	4274.160
1970	15035.0	United Kingdom	252.730
1971	15036.0	United Kingdom	152.000
1972	15038.0	United Kingdom	685.740
1973	15039.0	United Kingdom	19766.590
1974	15040.0	United Kingdom	163.040
1975	15042.0	United Kingdom	135.900
1976	15043.0	United Kingdom	537.000
1977	15045.0	United Kingdom	266.140
1978	15045.0	United Kingdom	735.660
1979	15046.0	United Kingdom	5090.420
1980	15047.0	United Kingdom	245.620
1981	15048.0	United Kingdom	391.000
1982	15049.0	United Kingdom	121.710
1983	15050.0	United Kingdom	263.150
1984	15051.0	United Kingdom	1383.360
1985	15052.0	United Kingdom	207.730
1986	15053.0	United Kingdom	263.150
1987	15054.0	United Kingdom	302.100
1988	15057.0	United Kingdom	1489.000
1989	15058.0	United Kingdom	252.100
1990	15059.0	United Kingdom	1337.720
1991	15060.0	United Kingdom	294.250
1992	15061.0	United Kingdom	262.100
1993	15062.0	United Kingdom	987.860
1994	15063.0	United Kingdom	370.800
1995	15064.0	United Kingdom	125.120
1996	15066.0	United Kingdom	893.590
1997	15067.0	United Kingdom	1744.760
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1999	15069.0	United Kingdom	1109.530
2000	15070.0	United Kingdom	106.200
2001	15071.0	United Kingdom	103.170
2002	15073.0	United Kingdom	1043.410
2003	15074.0	United Kingdom	735.670
2004	15075.0	United Kingdom	152.910
2005	15076.0	United Kingdom	880.850
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2011	15088.0	United Kingdom	1160.070
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2013	15090.0	United Kingdom	256.120
2014	15091.0	United Kingdom	480.710
2015	15092.0	United Kingdom	457.910
2016	15093.0	United Kingdom	259.100
2017	15095.0	United Kingdom	1370.600
2018	15096.0	United Kingdom	219.390
2019	15097.0	United Kingdom	412.100
2020	15098.0	United Kingdom	3916.500
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2022	15100.0	United Kingdom	218.900
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3000 16424.0 United Kingdom 133.560
3002 16425.0 United Kingdom 302.700
3003 16425.0 United Kingdom 302.700
3004 16427.0 United Kingdom 241.060
3005 16429.0 United Kingdom 284.550
3006 16429.0 United Kingdom 118.000
3007 16431.0 United Kingdom 623.280
3008 16432.0 United Kingdom 287.400
3009 16432.0 United Kingdom 287.400
3010 16434.0 United Kingdom 1511.800
3011 16438.0 United Kingdom 798.350
3012 16438.0 United Kingdom 798.350
3013 16441.0 United Kingdom 381.200
3014 16442.0 United Kingdom 609.300
3015 16442.0 United Kingdom 609.300
3016 16445.0 United Kingdom 230.510
3017 16446.0 United Kingdom 168472.500
3018 16446.0 United Kingdom 205.100
3019 16448.0 United Kingdom 182.990
3020 16449.0 United Kingdom 707.690
3021 16449.0 United Kingdom 707.690
3022 16451.0 United Kingdom 266.970
3023 16454.0 United Kingdom 6.900
3024 16454.0 United Kingdom 6.900
3025 16456.0 United Kingdom 2158.180
3026 16457.0 United Kingdom 208.360
3027 16457.0 United Kingdom 208.360
3028 16460.0 United Kingdom 811.230
3029 16461.0 United Kingdom 142.420
3030 16461.0 United Kingdom 142.420
3031 16463.0 United Kingdom 1422.400
3032 16464.0 United Kingdom 1298.660
3033 16464.0 United Kingdom 147.900
3034 16468.0 United Kingdom 74.900
3035 16469.0 United Kingdom 625.420
3036 16469.0 United Kingdom 625.420
3037 16471.0 United Kingdom 223.950
3038 16473.0 United Kingdom 316.110
3039 16473.0 United Kingdom 316.110
3040 16475.0 United Kingdom 544.300
3041 16477.0 United Kingdom 2494.460
3042 16477.0 United Kingdom 2494.460
3043 16479.0 United Kingdom 300.830
3044 16480.0 United Kingdom 769.290
3045 16480.0 United Kingdom 769.290
3046 16483.0 United Kingdom 139.350
3047 16484.0 United Kingdom 404.300
3048 16484.0 United Kingdom 404.300
3049 16488.0 United Kingdom 498.800
3050 16491.0 United Kingdom 731.500
3051 16492.0 United Kingdom 153.100
3052 16494.0 United Kingdom 826.530
3053 16495.0 United Kingdom 648.260
3054 16495.0 United Kingdom 1659.500
3055 16497.0 United Kingdom 2965.690
3056 16498.0 United Kingdom 100.660
3057 16498.0 United Kingdom 100.660
3058 16500.0 United Kingdom 400.860
3059 16503.0 United Kingdom 1431.350
3060 16503.0 United Kingdom 1431.350
3061 16505.0 United Kingdom 777.600
3062 16506.0 United Kingdom 900.300
3063 16506.0 United Kingdom 900.300
3064 16510.0 United Kingdom 248.100
3065 16511.0 United Kingdom 193.330
3066 16511.0 United Kingdom 193.330
3067 16513.0 United Kingdom 1624.140
3068 16516.0 United Kingdom 101.700
3069 16516.0 United Kingdom 101.700
3070 16518.0 United Kingdom 484.320
3071 16519.0 United Kingdom 235.080
3072 16519.0 United Kingdom 235.080
3073 16523.0 United Kingdom 9418.470
3074 16525.0 United Kingdom 13027.450
3075 16525.0 United Kingdom 13027.450
3076 16527.0 United Kingdom 228.060
3077 16528.0 United Kingdom 244.410
3078 16528.0 United Kingdom 244.410
3079 16531.0 United Kingdom 1244.990
3080 16532.0 United Kingdom 6748.800
3081 16532.0 United Kingdom 6748.800
3082 16535.0 United Kingdom 593.750
3083 16536.0 United Kingdom 548.120
3084 16536.0 United Kingdom 548.120
3085 16542.0 United Kingdom 119.620
3086 16545.0 United Kingdom 339.300
3087 16545.0 United Kingdom 339.300
3088 16549.0 United Kingdom 4034.900
3089 16550.0 United Kingdom 2298.970
3090 16550.0 United Kingdom 2298.970
3091 16552.0 United Kingdom 379.730
3092 16553.0 United Kingdom 5719.320
3093 16553.0 United Kingdom 5719.320
3094 16555.0 United Kingdom 285.890
3095 16556.0 United Kingdom 833.490
3096 16556.0 United Kingdom 833.490
3097 16558.0 United Kingdom 838.990
3098 16560.0 United Kingdom 841.410
3099 16560.0 United Kingdom 841.410
3100 16563.0 United Kingdom 1077.740
3101 16565.0 United Kingdom 173.700
3102 16565.0 United Kingdom 173.700
3103 16567.0 United Kingdom 865.600
3104 16569.0 United Kingdom 124.200
3105 16569.0 United Kingdom 124.200
3106 16571.0 United Kingdom 1421.690
3107 16572.0 United Kingdom 1009.600
3108 16572.0 United Kingdom 1009.600
3109 16574.0 United Kingdom 451.440
3110 16581.0 United Kingdom 105.840
3111 16581.0 United Kingdom 105.840
3112 16583.0 United Kingdom 233.450
3113 16584.0 United Kingdom 396.080
3114 16584.0 United Kingdom 396.080
3115 16587.0 United Kingdom 225.150
3116 16590.0 United Kingdom 413.680
3117 16590.0 United Kingdom 413.680
3118 16592.0 United Kingdom 330.330
3119 16593.0 United Kingdom 330.330
3120 16594.0 United Kingdom 360.160
3121 16595.0 United Kingdom 250.150
3122 16596.0 United Kingdom 250.150
3123 16598.0 United Kingdom 145.050
3124 16600.0 United Kingdom 813.520
3125 16600.0 United Kingdom 813.520
3126 16602.0 United Kingdom 528.080
3127 16603.0 United Kingdom 482.470
3128 16603.0 United Kingdom 482.470
3129 16609.0 United Kingdom 5493.460
3130 16610.0 United Kingdom 75.660
3131 16612.0 United Kingdom 1187.660
3132 16612.0 United Kingdom 618.390
3133 16612.0 United Kingdom 618.390
3134 16613.0 United Kingdom 500.420
3135 16613.0 United Kingdom 500.420
3136 16616.0 United Kingdom 151.850
3137 16617.0 United Kingdom 151.850
3138 16618.0 United Kingdom 226.210
3139 16619.0 United Kingdom 178.860
3140 16620.0 United Kingdom 178.860
3141 16621.0 United Kingdom 129.450
3142 16623.0 United Kingdom 129.450
3143 16624.0 United Kingdom 810.370
3144 16624.0 United Kingdom 810.370
3145 16626.0 United Kingdom 443.100
3146 16627.0 United Kingdom 322.800
3147 16628.0 United Kingdom 322.800
3148 16629.0 United Kingdom 408.630
3149 16633.0 United Kingdom 2883.100
3150 16633.0 United Kingdom 2883.100
3151 16637.0 United Kingdom 1154.470
3152 16638.0 United Kingdom 1680.720
3153 16638.0 United Kingdom 1680.720
3154 16641.0 United Kingdom 231.100
3155 16642.0 United Kingdom 688.330
3156 16642.0 United Kingdom 688.330
3157 16644.0 United Kingdom 833.780
3158 16647.0 United Kingdom 214.060
3159 16648.0 United Kingdom 209.660
3160 16650.0 United Kingdom 518.420
3161 16652.0 United Kingdom 6773.970
3162 16652.0 United Kingdom 6773.970
3163 16654.0 United Kingdom 601.270
3164 16655.0 United Kingdom 3789.520
3165 16655.0 United Kingdom 3789.520
3166 16657.0 United Kingdom 874.430
3167 16658.0 United Kingdom 123.240
3168 16658.0 United Kingdom 123.240
3169 16660.0 United Kingdom 1267.650
3170 16665.0 United Kingdom 135.400
3171 16665.0 United Kingdom 135.400
3172 16667.0 United Kingdom 567.180
3173 16668.0 United Kingdom 306.720
3174 16668.0 United Kingdom 306.720
3175 16670.0 United Kingdom 4095.800
3176 16671.0 United Kingdom 1692.270
3177 16672.0 United Kingdom 1692.270
3178 16674.0 United Kingdom 304.240
3179 16676.0 United Kingdom 1592.120
3180 16676.0 United Kingdom 1592.120
3181 16679.0 United Kingdom 129.750
3182 16680.0 United Kingdom 183.700
3183 16680.0 United Kingdom 183.700
3184 16682.0 United Kingdom 1028.000
3185 16684.0 United Kingdom 6653.560
3186 16684.0 United Kingdom 6653.560
3187 16686.0 United Kingdom 2959.880
3188 16688.0 United Kingdom 1260.680
3189 16688.0 United Kingdom 1260.680
3190 16690.0 United Kingdom 225.580
3191 16692.0 United Kingdom 1276.000
3192 16692.0 United Kingdom 1276.000
3193 16696.0 United Kingdom 657.900
3194 16697.0 United Kingdom 112.750
3195 16698.0 United Kingdom 1096.000
3196 16700.0 United Kingdom 5076.550
3197 16701.0 United Kingdom 5398.300
3198 16702.0 United Kingdom 1403.900
3199 16706.0 United Kingdom 531.350
3200 16708.0 United Kingdom 656.630
3201 16708.0 United Kingdom 656.630
3202 16710.0 United Kingdom 2467.990
3203 16711.0 United Kingdom 1651.300
3204 16712.0 United Kingdom 1651

3959	17254.0	United Kingdom	271.190
3960	17256.0	United Kingdom	581.330
3602	17259.0	United Kingdom	581.330
3603	17262.0	United Kingdom	581.330
3604	17263.0	United Kingdom	63.400
3605	17265.0	United Kingdom	550.010
3606	17265.0	United Kingdom	550.010
3607	17267.0	United Kingdom	317.200
3608	17268.0	United Kingdom	763.640
3609	17269.0	United Kingdom	763.640
3610	17274.0	United Kingdom	107.820
3611	17277.0	United Kingdom	1065.350
3612	17280.0	United Kingdom	242.000
3613	17279.0	United Kingdom	187.830
3614	17282.0	United Kingdom	1685.460
3615	17282.0	United Kingdom	1685.460
3616	17286.0	United Kingdom	151.370
3617	17287.0	United Kingdom	1049.060
3618	17287.0	United Kingdom	1049.060
3619	17289.0	United Kingdom	931.020
3620	17290.0	United Kingdom	513.010
3621	17290.0	United Kingdom	513.010
3622	17293.0	United Kingdom	1854.060
3623	17295.0	United Kingdom	547.000
3624	17295.0	United Kingdom	547.000
3625	17298.0	United Kingdom	498.420
3626	17299.0	United Kingdom	656.610
3627	17300.0	United Kingdom	117.400
3628	17302.0	United Kingdom	1135.630
3629	17303.0	United Kingdom	250.040
3630	17303.0	United Kingdom	250.040
3631	17309.0	United Kingdom	82.750
3632	17311.0	United Kingdom	1394.850
3633	17312.0	United Kingdom	146.180
3634	17313.0	United Kingdom	2328.840
3635	17314.0	United Kingdom	2527.920
3636	17314.0	United Kingdom	2527.920
3637	17317.0	United Kingdom	2600.340
3638	17320.0	United Kingdom	1200.620
3639	17320.0	United Kingdom	643.160
3640	17323.0	United Kingdom	906.520
3641	17324.0	United Kingdom	996.480
3642	17325.0	United Kingdom	946.010
3643	17329.0	United Kingdom	523.110
3644	17330.0	United Kingdom	363.900
3645	17330.0	United Kingdom	363.900
3646	17333.0	United Kingdom	494.250
3647	17334.0	United Kingdom	307.020
3648	17337.0	United Kingdom	562.190
3649	17338.0	United Kingdom	6493.540
3650	17339.0	United Kingdom	243.360
3651	17340.0	United Kingdom	1293.990
3652	17341.0	United Kingdom	682.290
3653	17343.0	United Kingdom	193.640
3654	17343.0	United Kingdom	193.640
3655	17345.0	United Kingdom	519.690
3656	17346.0	United Kingdom	2622.880
3657	17346.0	United Kingdom	223.450
3658	17348.0	United Kingdom	1156.600
3659	17349.0	United Kingdom	98.250
3660	17349.0	United Kingdom	98.250
3661	17351.0	United Kingdom	587.150
3662	17353.0	United Kingdom	1740.000
3663	17353.0	United Kingdom	1740.000
3664	17356.0	United Kingdom	178.220
3665	17357.0	United Kingdom	384.390
3666	17360.0	United Kingdom	568.240
3667	17362.0	United Kingdom	312.230
3670	17362.0	United Kingdom	312.230
3671	17364.0	United Kingdom	4462.680
3672	17364.0	United Kingdom	4462.680
3673	17367.0	United Kingdom	167.550
3674	17368.0	United Kingdom	1878.070
3675	17370.0	United Kingdom	418.400
3676	17371.0	United Kingdom	418.400
3677	17372.0	United Kingdom	1337.180
3678	17372.0	United Kingdom	1337.180
3679	17374.0	United Kingdom	495.770
3680	17375.0	United Kingdom	400.100
3681	17375.0	United Kingdom	400.100
3682	17377.0	United Kingdom	4058.320
3683	17379.0	United Kingdom	389.720
3684	17382.0	United Kingdom	65.400
3685	17382.0	United Kingdom	65.400
3686	17383.0	United Kingdom	193.390
3687	17383.0	United Kingdom	193.390
3688	17385.0	United Kingdom	256.110
3689	17386.0	United Kingdom	2686.420
3690	17387.0	United Kingdom	268.650
3691	17388.0	United Kingdom	1259.560
3692	17389.0	United Kingdom	3833.680
3693	17391.0	United Kingdom	417.270
3694	17392.0	United Kingdom	203.870
3695	17394.0	United Kingdom	203.870
3696	17395.0	United Kingdom	681.410
3698	17398.0	United Kingdom	653.380
3699	17398.0	United Kingdom	653.380
3700	17402.0	United Kingdom	2633.850
3701	17403.0	United Kingdom	263.920
3702	17404.0	Sweden	31906.020
3703	17405.0	United Kingdom	1031.410
3704	17406.0	United Kingdom	2184.420
3705	17408.0	United Kingdom	712.450
3706	17409.0	United Kingdom	771.850
3707	17410.0	United Kingdom	1214.720
3709	17412.0	United Kingdom	1258.060
3710	17414.0	United Kingdom	778.000
3711	17415.0	United Kingdom	6893.420
3712	17416.0	United Kingdom	463.460
3713	17418.0	United Kingdom	598.830
3714	17420.0	United Kingdom	1979.370
3715	17422.0	United Kingdom	569.910
3718	17425.0	United Kingdom	759.170
3719	17426.0	United Kingdom	5037.260
3720	17426.0	United Kingdom	5037.260
3721	17428.0	United Kingdom	17256.850
3722	17429.0	United Kingdom	524.920
3723	17430.0	United Kingdom	403.300
3724	17431.0	United Kingdom	403.300
3725	17432.0	United Kingdom	365.760
3726	17433.0	United Kingdom	302.160
3727	17434.0	United Kingdom	2373.820
3728	17436.0	United Kingdom	216.300
3729	17438.0	United Kingdom	186.420
3730	17440.0	United Kingdom	2248.560
3731	17442.0	United Kingdom	2248.560
3732	17443.0	Canada	214.200
3733	17444.0	Canada	2940.040
3734	17446.0	United Kingdom	120.900
3735	17446.0	United Kingdom	843.030
3736	17449.0	United Kingdom	2519.210
3737	17450.0	United Kingdom	194390.190
3738	17451.0	United Kingdom	1722.400
3739	17453.0	United Kingdom	486.720
3740	17454.0	United Kingdom	517.330
3741	17455.0	United Kingdom	213.100
3742	17456.0	United Kingdom	249.860
3743	17459.0	United Kingdom	1737.700
3744	17459.0	United Kingdom	1024.300
3745	17459.0	United Kingdom	657.300
3746	17460.0	United Kingdom	622.430
3747	17460.0	United Kingdom	622.430
3748	17462.0	United Kingdom	675.690
3749	17463.0	United Kingdom	1875.660
3750	17463.0	United Kingdom	1875.660
3751	17466.0	United Kingdom	763.280
3752	17468.0	United Kingdom	137.000
3753	17468.0	United Kingdom	181.050
3754	17470.0	United Kingdom	1125.070
3755	17472.0	United Kingdom	697.540
3756	17473.0	United Kingdom	574.070
3757	17480.0	United Kingdom	511.820
3758	17481.0	United Kingdom	1255.590
3759	17482.0	United Kingdom	396.870
3760	17486.0	United Kingdom	396.870
3761	17489.0	United Kingdom	376.640
3762	17493.0	United Kingdom	302.100
3763	17491.0	United Kingdom	3558.870
3764	17492.0	United Kingdom	374.570
3765	17493.0	United Kingdom	271.050
3766	17496.0	United Kingdom	271.050
3767	17498.0	United Kingdom	272.220
3769	17500.0	United Kingdom	1138.000
3770	17501.0	United Kingdom	288.600
3771	17502.0	United Kingdom	260.150
3772	17503.0	United Kingdom	558.960
3773	17504.0	United Kingdom	2997.030
3774	17505.0	United Kingdom	146.160
3775	17506.0	United Kingdom	302.200
3776	17507.0	United Kingdom	605.380
3777	17508.0	Greece	501.120
3778	17509.0	United Kingdom	6093.640
3779	17510.0	United Kingdom	398.480
3780	17510.0	United Kingdom	398.480
3781	17512.0	United Kingdom	2924.990
3782	17513.0	United Kingdom	513.200
3783	17513.0	United Kingdom	513.200
3784	17515.0	United Kingdom	639.020
3785	17516.0	United Kingdom	764.880
3786	17517.0	United Kingdom	143.000
3787	17519.0	United Kingdom	1844.020
3788	17520.0	United Kingdom	546.810
3789	17521.0	United Kingdom	1070.710
3790	17522.0	United Kingdom	1070.710
3791	17523.0	United Kingdom	652.740
3792	17524.0	United Kingdom	427.700
3793	17525.0	United Kingdom	427.700
3794	17526.0	United Kingdom	1135.900
3795	17527.0	United Kingdom	1599.170
3796	17528.0	United Kingdom	3628.500
3797	17530.0	United Kingdom	2387.120
3798	17531.0	United Kingdom	216.600
3799	17534.0	United Kingdom	223.360
3800	17535.0	United Kingdom	146.400
3801	17535.0	United Kingdom	146.400
3802	17537.0	United Kingdom	887.670
3803	17538.0	United Kingdom	198.420
3804	17539.0	United Kingdom	574.800
3805	17542.0	United Kingdom	170.750
3806	17545.0	United Kingdom	642.320
3807	17545.0	United Kingdom	243.160
3808	17549.0	United Kingdom	148.860
3809	17550.0	United Kingdom	267.160
3810	17550.0	United Kingdom	267.160
3811	17552.0	United Kingdom	930.410
3812	17553.0	United Kingdom	1487.600
3813	17553.0	United Kingdom	1487.600
3814	17555.0	United Kingdom	480.310
3815	17556.0	United Kingdom	157.300
3816	17556.0	United Kingdom	157.300
3817	17560.0	United Kingdom	854.950
3818	17561.0	United Kingdom	165.120
3819	17562.0	United Kingdom	165.120
3820	17564.0	United Kingdom	454.010
3821	17566.0	United Kingdom	869.770
3822	17567.0	United Kingdom	214.340
3823	17569.0	United Kingdom	344.140
3824	17571.0	United Kingdom	1425.670
3825	17572.0	United Kingdom	268.170
3826	17573.0	United Kingdom	380.600
3827	17574.0	United Kingdom	185.650
3828	17575.0	United Kingdom	143.460
3830	17579.0	United Kingdom	448.900
3831	17582.0	United Kingdom	1022.240
3832	17581.0	United Kingdom	11025.240
3833	17582.0	United Kingdom	175.270
3834	17582.0	United Kingdom	124.800
3835	17585.0	United Kingdom	1116.680
3836	17588.0	United Kingdom	1240.200
3837	17589.0	United Kingdom	201.170
3838	17590.0	United Kingdom	1468.020
3839	17591.0	United Kingdom	2203.670
3840	17592.0	United Kingdom	214.340
3841	17594.0	United Kingdom	993.180
3842	17595.0	United Kingdom	386.690
3843	17595.0	United Kingdom	386.690
3844	17597.0	United Kingdom	2044.370
3845	17600.0	United Kingdom	161.670
3847	17602.0	United Kingdom	5054.420
3848	17603.0	United Kingdom	394.720
3849	17604.0	United Kingdom	191.990
3850	17608.0	United Kingdom	191.990
3851	17609.0	United Kingdom	1105.780
3852	17610.0	United Kingdom	1105.780
3853	17612.0	United Kingdom	2048.450
3854	17613.0	United Kingdom	4544.550
3855	17613.0	United Kingdom	4544.550
3856	17615.0	United Kingdom	329.600
3857	17616.0	United Kingdom	571.200
3858	17616.0	United Kingdom	571.200
3859	17619.0	United Kingdom	214.370
3860	17620.0	United Kingdom	831.440
3861	17620.0	United Kingdom	831.440
3862	17623.0	United Kingdom	527.050
3863	17624.0	United Kingdom	843.480
3864	17625.0	United Kingdom	202.150
3865	17628.0	United Kingdom	75.750
3866	17629.0	United Kingdom	1814.120
3867	17629.0	United Kingdom	1814.120
3868	17631.0	United Kingdom	528.330
3869	17633.0	United Kingdom	1234.840
3870	17635.0	United Kingdom	253.000
3871	17636.0	United Kingdom	285.560
3872	17637.0	United Kingdom	547.060
3873	17638.0	United Kingdom	218.150
3874	17640.0	United Kingdom	621.660
3875	17642.0	United Kingdom	712.290
3876	17642.0	United Kingdom	712.290
3877	17644.0	United Kingdom	2895.640
3878	17646.0	United Kingdom	1008.390
3879	17647.0	United Kingdom	151.060
3880	17648.0	United Kingdom	1797.500
3881	17649.0	United Kingdom	868.490
3882	17650.0	United Kingdom	446.880
3883	17651.0	United Kingdom	3945.000
3884	17652.0	United Kingdom	4867.720
3885	17652.0	United Kingdom	4867.720
3886	17654.0	United Kingdom	117.550
3887	17655.0	United Kingdom	2638.940

Country	481142
United Kingdom	9027
Germany	8393
France	7893
Spain	2480
Netherlands	2363
Belgium	2031
Switzerland	1959
Portugal	1492
Australia	1184
Norway	1072
Italy	758
Channel Islands	747
Finland	685
Cyprus	603
Sweden	450
Unspecified	442
Austria	398
Denmark	360
Poland	330
Japan	321
Israel	292
Hong Kong	280
Singapore	222
Iceland	162
USA	179
Canada	151
Greece	145
Malta	112
United Arab Emizates	68
European Community	60
RSA	58
Lebanon	45
Lithuania	35
Brazil	32
Czech Republic	25
Bahrain	18
Saudi Arabia	9
Name: InvoiceNo, dtype: int64	

14. Orders trend across months



15. How much money spent by each country



Thank You

In [] :