

Thomas Collins

Spreadsheet Portfolio

Spreadsheet One

Brief: Show geographical distribution of all orders made through the client's website

I was provided with details corresponding to each online order placed through the client's website

ORDER REF	EMAIL	NAME	ADDRESS 1	ADDRESS 3	POSTCODE (Raw)
#16				St Andrews	ky160dn
#17				Edinburgh	EH53BY
#18				Dunbar	EH421NQ
#21				Crawley	RH107ND
#35				Alford	AB33BRN
#36				Glasgow	G511IW
#37				Eastwood	NG169GL
#41				York	YO269TD
#42				Musselburgh	EH217HH
#43				SWINDON	SN36BP
#45				Isle of Bute	PA200RA
#46				Duns	TD113HA
#47				Tewkesbury	GL205FX
#48				Edinburgh	EH89NA
#55				Newcastle upon Tyne	NE655T
#56				newport	np198nt
#57				Christchurch	Bh237pa
#58				Edinburgh	EH106TF
#59				Glasgow	G781UL
#60				Bridgnorth	WV165PD
#62				Aberdeenshire	AB238AR
#66				Bradford-on-Avon	BA151TQ
#67				London	SE83FJ
#68				Wolverhampton	WV59HT
#69				Beith	Ka151le
#71				Nottingham	NG68JE
#73				Macclesfield	SK104XL
#76				SUNDERLAND	SR48EQ
#78				Edinburgh	EH41LW
#79				Waltham Abbey	EN93NT
#80				Leicester	LE86WA
#81				London	SE171PB
#85				London	SW182RJ
#86				Crowthorne	RG456PG
#87				Northampton	NN48LZ
#88				Poole	Bh148az
#90				Huntingdon	PE293TE
#92				Bury	BL84PQ
#93				Gomersal	BD194RF
#94				Birmingham	B193SJ
#96				Nottingham	NG92DI
#97				Aberdeen	AB242GH
#101				Glasgow	G314HP
#103				Cullingworth	BD135FD
#106				London	CR27EN
#107				Aberdeen	AB253QL
#109				Huddersfield	HD58HU

I then cleaned the postcodes (ensuring consistent case and spacing) and removed numbers from the string using a macro

```
=UPPER(REPLACE(F2,LEN(F2)-2,0," "))
```

F	H	J
POSTCODE (Raw)	Postcode (Cleaned)	Postcode (TextOnly)
ky160dn	KY16 0DN	KY DN
EH53BY	EH5 3BY	EH BY
EH421NQ	EH42 1NQ	EH NQ
RH107ND	RH10 7ND	RH ND
AB338RN	AB33 8RN	AB RN
G511JW	G51 1JW	G JW
NG163GL	NG16 3GL	NG GL
YO269TD	YO26 9TD	YO TD
EH217HH	EH21 7HH	EH HH
SN36BP	SN3 6BP	SN BP
PA200RA	PA20 0RA	PA RA
TD113HA	TD11 3HA	TD HA
GL205FX	GL20 5FX	GL FX
EH89NA	EH8 9NA	EH NA
NE65ST	NE6 5ST	NE ST
np198nt	NP19 8NT	NP NT
Bh237pa	BH23 7PA	BH PA
EH106TF	EH10 6TF	EH TF
G781UL	G78 1UL	G UL
WV165PD	WV16 5PD	WV PD
AB238AR	AB23 8AR	AB AR
BA151TQ	BA15 1TQ	BA TQ
SE83FJ	SE8 3FJ	SE FJ
WV59HT	WV5 9HT	WV HT
Ka151le	KA15 1LE	KA LE
NG68JE	NG6 8JE	NG JE
SK104XL	SK10 4XL	SK XL
SR48EQ	SR4 8EQ	SR EQ
EH41LW	EH4 1LW	EH LW
EN93NT	EN9 3NT	EN NT
LE86WA	LE8 6WA	LE WA
SE171PB	SE17 1PB	SE PB
SW182RJ	SW18 2RJ	SW RJ
RG456PG	RG45 6PG	RG PG
NN48LZ	NN4 8LZ	NN LZ
Bh148az	BH14 8AZ	BH AZ

```
Function TextOnly(pWorkRng As Range) As String
'Updateby20140515
Dim xValue As String
Dim OutValue As String
xValue = pWorkRng.Value
For xIndex = 1 To VBA.Len(xValue)
    If Not VBA.IsNumeric(VBA.Mid(xValue, xIndex, 1)) Then
        OutValue = OutValue & VBA.Mid(xValue, xIndex, 1)
    End If
Next
TextOnly = OutValue
End Function
```

I then took the start of each postcode and filtered out duplicates which is then used to count the number of orders from each area

```
=COUNTIF($H:$H, L2&" "&"*")
```

H	L	N
Postcode (Cleaned)	Postcode Areas (After duplicates are removed)	Number of Orders Per Area
KY16 0DN	KY16	49
EH5 3BY	EH5	30
EH42 1NQ	EH42	116
RH10 7ND	RH10	11
AB33 8RN	AB33	19
G51 1JW	G51	15
NG16 3GL	NG16	13
YO26 9TD	YO26	14
EH21 7HH	EH21	49
SN3 6BP	SN3	8
PA20 0RA	PA20	5
TD11 3HA	TD11	31
GL20 5FX	GL20	6
EH8 9NA	EH8	69
NE6 5ST	NE6	13
NP19 8NT	NP19	57
BH23 7PA	BH23	55
EH10 6TF	EH10	76
G78 1UL	G78	14
WV16 5PD	WV16	2
AB23 8AR	AB23	23
BA15 1TQ	BA15	9
SE8 3FJ	SE8	3
WV5 9HT	WV5	26
KA15 1LE	KA15	14
NG6 8JE	NG6	5
SK10 4XL	SK10	7
SR4 8EQ	SR4	10
EH4 1LW	EH4	88
EN9 3NT	EN9	5
LE8 6WA	LE8	8
SE17 1PB	SE17	11
SW18 2RJ	SW18	10
RG45 6PG	RG45	3
NN4 8LZ	NN4	14
BH14 8AZ	BH14	2
PE29 3TE	PE29	8
BL8 4PQ	BL8	20

Column M consists of just the area codes which are then used to sum the number of orders from each region in the UK

=SUMIF(M:M, S2, N:N)

	M	S	T	U	V	W	X	Y
		Scottish Postcode Area Codes	No. Orders	English Postcode Area Codes	No. Orders	N.Irish Postcode Area Codes	No. Orders	Welsh Postcode Area Codes
KY	AB		736	AL	27	BT	69	CF
EH	DD		214	B	151	Total	69	LD
EH	DG		172	BA	50			LL
RH	EH		2134	BB	62			NP
AB	FK		274	BD	88			SA
G	G		673	BH	114			SY
NG	HS		34	BL	55			Total
YO	IV		310	BN	58			
EH	KA		151	BR	40			
SN	KW		43	BS	181			
PA	KY		356	CA	92			
TD	ML		161	CB	52			
GL	PA		174	CH	78			
EH	PH		188	CM	98			
NE	TD		236	CO	58			
NP	ZE		31	CR	31			
BH	Total		5887	CT	77			
EH				CV	123			
G				CW	32			
WV				DA	37			
AB				DE	80			
BA				DH	72			
SE				DL	46			
WV				DN	103			
KA				DT	33			
NG				DY	93			
SK				EC	0			
SR				EN	33			
EH				EX	61			
EN				FY	18			
LE				GL	58			
SE				GU	81			
SW				HA	11			
RG				HD	58			
NN				HG	41			
BH				HP	108			
PE				HR	15			
BL				HU	60			
BD				HX	47			
B				IG	11			
NG				IP	32			
AB				KT	69			
G				LA	60			
BD				LE	85			
CR				LN	53			
AB				LS	190			
HD				LU	6			
IV				M	133			
SA				ME	41			
SM				MK	89			
TA				N	91			
EH				NE	375			

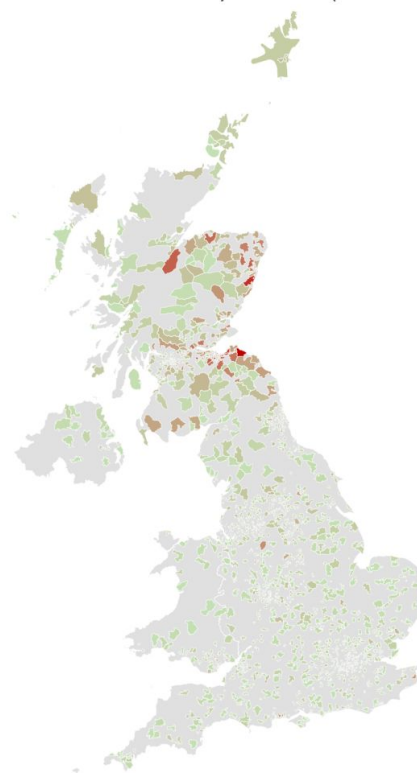
From this I created two maps to show distribution of online orders across the UK, one by region and one by postal area

Distribution of Orders by Region (All Products)



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Distribution of Orders by Postcode (All Products)



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Spreadsheet Two

Brief: Show geographical distribution of orders made through the website by product

The data I was given for this one was in a very different format.

	A	B	C
1	PE		
2	Total # Sold	68	
3	Total Sales	3033.05	
4	Product Name	Sales	Quantity
5	Product names hidden for confidentiality	164.4	6
6		54.8	1
7		602.8	11
8		328.8	6
9		76.8	2
10		40	1
11		140	4
12		153.6	4
13		28.75	1
14		408	6
15		35.2	1
16		153.6	4
17		76.8	2
18		28.75	3
19		307.2	8
20		328.8	6
21		54.8	1
22		49.95	1
23	KA		
24	Total # Sold	122	
25	Total Sales	4727.19	
26	Product Name	Sales	Quantity
27		595	17
28		383.6	7
29		80	2