

## Exercise 2

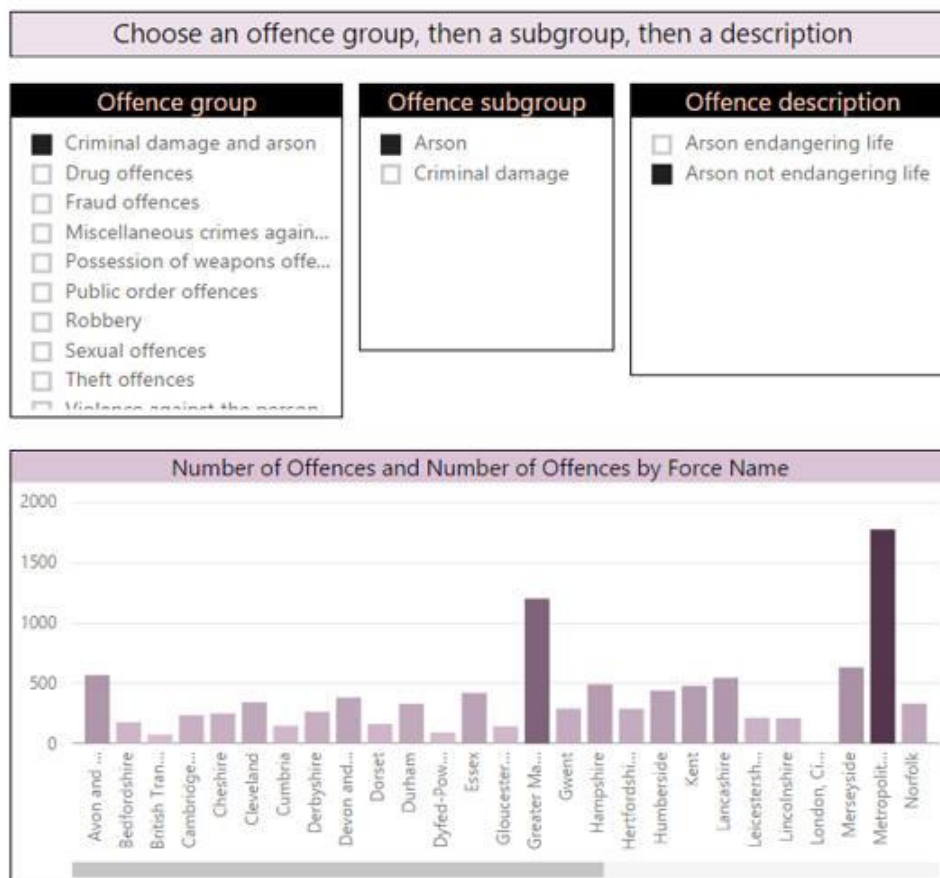
Download the files from <http://www.peter-lo.com/Teaching/AMA-BI/Source2.zip>, you will use these files to finish the following exercises.

1. Import the 2015/16 crime statistics from the Excel workbook “Exercise2-1.xlsx”.

A. Delete columns in Query Editor so that you're left with these ones:

Force Name	Offence Description	Offence Group	Offence Subgroup	Number of Offences
Avon and Somerset	Adulteration of food (outcc	Miscellaneous crimes	Miscellaneous crimes a	0
Bedfordshire	Adulteration of food (outcc	Miscellaneous crimes	Miscellaneous crimes a	0
British Transpor	Adulteration of food (outcc	Miscellaneous crimes	Miscellaneous crimes a	0
Cambridgeshire	Adulteration of food (outcc	Miscellaneous crimes	Miscellaneous crimes a	0
Cheshire	Adulteration of food (outcc	Miscellaneous crimes	Miscellaneous crimes a	0
Cleveland	Adulteration of food (outcc	Miscellaneous crimes	Miscellaneous crimes a	0
Cumbria	Adulteration of food (outcc	Miscellaneous crimes	Miscellaneous crimes a	0
Derbyshire	Adulteration of food (outcc	Miscellaneous crimes	Miscellaneous crimes a	0
Devon and Corn	Adulteration of food (outcc	Miscellaneous crimes	Miscellaneous crimes a	0
Dorset	Adulteration of food (outcc	Miscellaneous crimes	Miscellaneous crimes a	0

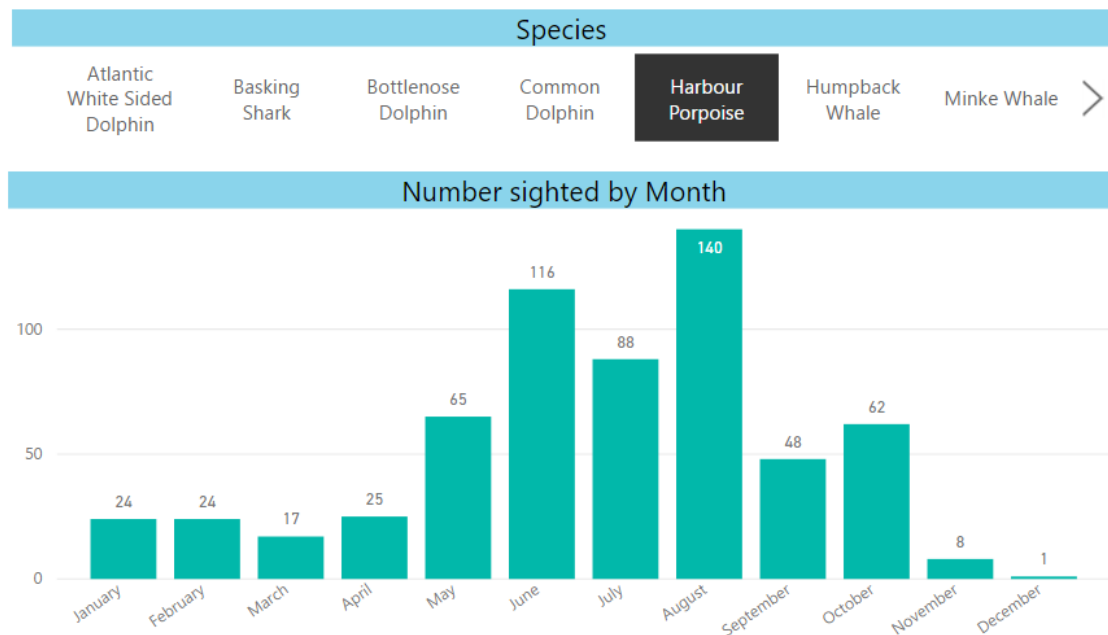
B. Create a text box, 3 slicers and a chart to compare the number of crimes for any type of offence across the police forces of England and Wales



2. Import the “Exercise2-2.csv” to Microsoft Power BI. Then sharp the data and create the report.
- A. Create a slicer based on the data allowing you to choose the species sighted:



- B. Add a chart comparing sightings by month, but restrict this by choosing the slicer species shown:



3. Import “Exercise2-3.csv” to Microsoft Power BI,
- A. Remove a few columns in Query Editor, and create a new one showing the percentage leave vote to give:

Region	Area	Valid_Votes	Remain	Leave	Pct_Leave
South East	Medway	138886	49889	88997	64.08
South East	Bracknell Forest	64890	29888	35002	53.94
South East	West Berkshire	93277	48300	44977	48.22
South East	Reading	74767	43385	31382	41.97
South East	Slough	54542	24911	29631	54.33
South East	Windsor and Maidenhead	81792	44086	37706	46.1
South East	Wokingham	97501	55272	42229	43.31
South East	Milton Keynes	130456	63393	67063	51.41
South East	Brighton and Hove	146675	100648	46027	31.38
South East	Portsmouth	98720	41384	57336	58.08
South East	Southampton	107665	49738	57927	53.8
South East	Isle of Wight	79380	30207	49173	61.95
South East	Aylesbury Vale	106833	52877	53956	50.5

B. Create a table showing the 10 areas with the highest average percentage of votes to leave

Area	Average of Pct_Leave
Bolsover	70.83
Boston	75.56
Castle Point	72.70
East Lindsey	70.65
Fenland	71.39
Great Yarmouth	71.50
Mansfield	70.86
North East Lincolnshire	69.87
South Holland	73.59
Thurrock	72.28
<b>Total</b>	<b>71.92</b>

4. Import the Exercise2-4.xlsx to Microsoft Power BI

A. Create three calculated columns for calculating total price, total cost and profit:

- Total Price = Quantity x Price
- Total Cost = Quantity x Cost
- Profit = Total Price – Total Cost

B. Create the report to show the price, cost and profit per product

