

Geographic Data

Topics in this session

How to access features in the Power BI User Interface Numerical Slicer – a preview feature (at time of writing!)

Geographic data visualizations Map Visual

Load in Data Sets

IMD data set for the North East Load in sheet1 from **NorthEast_Domains_of_deprivation.xlsx**

Population weighted longitude and latitude for all LSOA Load in LSOA_2011_EW_PWC_COORD_V2.CSV



Next we will merge these two data sets so we can access the longitude and latitude location data.

Merge Data Sets

Go to query editor and find Merge queries button Fill in the merge options as below and click OK Merge

Select a table and matching columns to create a merged table.

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Sheet1			
LSOA code (2011)	LSOA name (2011)	Local Authority District code (2013)	Local Authority District name (2013)
E01020634	County Durham 001A	E06000047	County Durham
E01020635	County Durham 001B	E06000047	County Durham
E01020636	County Durham 001C	E06000047	County Durham
E01020654	County Durham 001D	E06000047	County Durham
E01020676	County Durham 001E	E06000047	County Durham
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LSOA_2011_EW_PWC_COORD_V2

LSOA11CD	LSOA11NM	BNGEAST	BNGNORTH	LONGITUDE	LATITUDE
E01012007	Middlesbrough 012A	449119	517018	-1.242212348	54.5460388
E01012085	Middlesbrough 010D	451723	517578	-1.201874496	54.55081431
E01012005	Hartlepool 014G	448657	533985	-1.246544106	54.69854893
E01012084	Middlesbrough 010C	451977	517832	-1.19789081	54.55307729
E01012002	Hartlepool 006D	449565	533269	-1.232572047	54.69202729

Join Kind

Left Outer (all from first, matching from second)

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Select merged columns

Scroll across to find the new column and Click the expand icon, fill in the options as below and click OK

	🛙 most deprived) 🛛 💌	1 ² 3 Living Environment Decile (where 1 is most deprived 10% of L 🔽 📰 NewColumn 🚮
1	32395	Search Columns to Expand
2	29253	
3	32803	 Expand Aggregate
4	30677	(Select All Columns)
5	29267	LSOA11CD
6	29907	LSOA11NM
7	28972	BNGEAST
8	28154	BNGNORTH
9	32181	✓ LONGITUDE
10	32264	LATITUDE
11	31066	Use original column name as prefix
12	29981	
13	32427	OK Cancel
14	25391	8 Lable

Then click Close and Apply to close the Query Editor

Create a scatter chart





Create a Slicer on Names







Create a Numeric Slicer on IMD Rank

Use the same Slicer tool, it reformats for the numeric data type.



- 🗌 (Blank)
- County Durham
- Darlington
- Gateshead
- Hartlepool
- Middlesbrough
- Newcastle upon Tyne
- North Tyneside
- Northumberland
- Redcar and Cleveland
- South Tyneside
- Stockton-on-Tees
- Sunderland





Select a subset of the data

Use the slicers select the four Local Authority Districts below and set the numeric range from 1 to 1000 for IMD Rank.



Adding a Map visual

Add a Map visual and select Latitude and Longitude fields, these are automatically interpreted as locations on the map.



Because of the default setting for visual interactions the slicers already work on the map – try selecting other districts and ranges of IMD.¹⁰

Linking the colours to the map

For the Map visual drag the field **Local Authority District Names** to the **Legend** box.



Now the colouring for districts should be the same between the Scatter chart and the Map. $^{\mbox{\tiny 11}}$