



Census aggregate data workbook

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Practical 1a: Downloading 2011 Census aggregate data from InFuse

You are interested in finding out how many Males and Females work in the Manufacturing industry for all Local and Unitary Authorities in the UK

Start

Go to: <http://infuse.ukdataservice.ac.uk>

- Click ***Start InFuse***
- Click the ***2011 Census data***
- Click Geography

For the 2011 version of InFuse there is the option to choose Topics or Geography first. We recommend that you start InFuse by selecting Geography first.

Step 1: Geography

Not all census data are available for all geographical levels, there are less data available at the lower geographies (e.g. Wards, LSOA, Output Areas). In addition there are differences between what is available for the countries of the UK.

In this step we can pick the areas for which you want data by using the + and - buttons to expand or collapse nested areas.

Geography types containing large numbers of areas (Wards within England, for example) can be chosen, but not expanded to avoid displaying huge lists. Individual areas for these geography types can be displayed by expanding within higher level geography types (Counties, for example).

We would like all Local and Unitary Authorities in the UK. Within InFuse these are labelled as *Local Authorities*

- Tick the Local Authorities checkboxes for each country

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InFuse 2011 Population Statistics

Steps: 1 2 3 4 [Start Again](#)

Geography

[+ Show Guidance](#)

Select Geography

[Reset](#)

- England
 - Regions (9 areas)
 - Counties (35 areas)
 - Local Authorities (324 areas)
 - Wards and Electoral Divisions (7678 areas)
 - Middle Super Output Areas and Intermediate Zones (6791 areas)
 - Lower Super Output Areas and Data Zones (32844 areas)
 - Output Areas and Small Areas (171372 areas)
 - Merging Local Authorities (4 areas)
 - Merging Wards and Electoral Divisions (18 areas)
 - Workplace Zone Layer (50868 areas)
- Northern Ireland
 - Local Authorities (26 areas)
 - Wards and Electoral Divisions (582 areas)
 - Lower Super Output Areas and Data Zones (890 areas)
 - Output Areas and Small Areas (4537 areas)
- Scotland
 - Local Authorities (32 areas)
 - Wards and Electoral Divisions (353 areas)
 - Middle Super Output Areas and Intermediate Zones (1279 areas)
 - Lower Super Output Areas and Data Zones (6976 areas)
 - Output Areas and Small Areas (46351 areas)
- Wales
 - Local Authorities (22 areas)
 - Wards and Electoral Divisions (868 areas)
 - Middle Super Output Areas and Intermediate Zones (410 areas)

Click **Add**

A summary of your selections will now be displayed, click **Next**

Selected Geographic Areas

[Add](#) [Remove](#) [Remove All](#)

All Local Authorities (324 areas) in England
 All Local Authorities (26 areas) in Northern Ireland
 All Local Authorities (32 areas) in Scotland
 All Local Authorities (22 areas) in Wales

[Next](#)



Step 2: Topics

Census data comes in predefined topic combinations. These can be found in the grid. As you have selected the geography first. Only topic combinations available for those areas will be selectable.

On the left hand side of the screen you can filter the list.

- Click **Industry** (notice that the amount of combinations have reduced to 2 topic combinations)

If you had selected a single country, you would have many more topic combinations, this is because there are some differences between the availability of data for each country.

You are now presented with five topic combinations

Click **Select** for the *Age / Economic activity / Industry / Sex* combination

- Age
- Economic activity

- Industry
- Sex

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InFuse 2011 Population Statistics

Steps: 1 2 3 4 [Start Again](#)

Topics

[Show Guidance](#)

Filters [Clear filters](#) Showing 2 topic combinations for topic(s) (Industry) Page 1 of 1 [First](#) < 1 > [Last](#)

Topics

- Accommodation type
- Accommodation, adaptation of [N]
- Activity the week before the census [E][W]
- Adult lifecycle (alternative adult definition)
- Adults in household, number of
- Age

• Age
• Economic activity
• Industry

• Age
• Economic activity
• Industry
• Sex

Select

Select

You will now see another screen giving you the definitions of the topics you have selected. Have a read through, in particular the *industry* definition.

Click **Next**



Step 2: Categories

In this step you pick the categories to make up your combination. Items with a single category come preselected.

Pick:

Age: **16 to 74**

Economic activity: ***In employment the week before the census*** should be preselected

Industry: ***Total: "Industry"*** and ***"C. Manufacturing"***

Sex: Pick all three categories, ***"Total: Sex"***, ***Male*** and ***Female***

Categories

[+ Show Guidance](#)

Select categories

[Clear Categories](#)

Age

Age 16 to 19

Age 16 to 74

Age 25 to 29

Age 30 to 34

Age 35 to 39

Age 40 to 44

Age 45 to 49

Age 50 to 54

Age 55 to 59

Age 60 to 64

Economic activity

In employment the week before the census

Industry

Total: Industry

... A, B, D, E Agriculture, energy and water

C Manufacturing

F Construction

... G, I Distribution, hotels and restaurants

... H, J Transport and communication

... K, L, M, N Financial, real estate, professional and administrative activities

... O, P, Q Public administration, education and health

R, S, T, U Other

Sex

Total: Sex

Males

Females

Click **Add**

A summary of your selections will now be displayed, click **Next**

Selected category combinations

316 - Age : Age 16 to 74 - Economic activity : In employment the week before the census - Industry : Total: Industry - Sex : Total: Sex - Unit : Persons
 317 - Age : Age 16 to 74 - Economic activity : In employment the week before the census - Industry : Total: Industry - Sex : Males - Unit : Persons
 318 - Age : Age 16 to 74 - Economic activity : In employment the week before the census - Industry : Total: Industry - Sex : Females - Unit : Persons
 328 - Age : Age 16 to 74 - Economic activity : In employment the week before the census - Industry : C Manufacturing - Sex : Total: Sex - Unit : Persons
 329 - Age : Age 16 to 74 - Economic activity : In employment the week before the census - Industry : C Manufacturing - Sex : Males - Unit : Persons
 330 - Age : Age 16 to 74 - Economic activity : In employment the week before the census - Industry : C Manufacturing - Sex : Females - Unit : Persons

You have selected 6 category combinations

Step 4: Download

You can now see a summary of your selections along with a file reference (which can be changed)

Click ***Get the data***

Download

Selected Category Combinations

- 316 - Age : Age 16 to 74 - Economic activity : In employment the week before the census - Industry : Total: Industry - Sex : Total: Sex - Unit : Persons
- 317 - Age : Age 16 to 74 - Economic activity : In employment the week before the census - Industry : Total: Industry - Sex : Males - Unit : Persons
- 318 - Age : Age 16 to 74 - Economic activity : In employment the week before the census - Industry : Total: Industry - Sex : Females - Unit : Persons
- 328 - Age : Age 16 to 74 - Economic activity : In employment the week before the census - Industry : C Manufacturing - Sex : Total: Sex - Unit : Persons
- 329 - Age : Age 16 to 74 - Economic activity : In employment the week before the census - Industry : C Manufacturing - Sex : Males - Unit : Persons
- 330 - Age : Age 16 to 74 - Economic activity : In employment the week before the census - Industry : C Manufacturing - Sex : Females - Unit : Persons

Selected Areas

- All Local Authorities (22 areas) in Wales
- All Local Authorities (26 areas) in Northern Ireland
- All Local Authorities (32 areas) in Scotland
- All Local Authorities (324 areas) in England

File reference:

An orange ***Download Data*** button will appear, click it and you are given the choice to open/save the zipped file as normal.

Save this file to the folder you created earlier

File reference:






Results

The output comes in a Zip file format, and will be named with a date stamp followed by the file reference (e.g.:

2017419105212203_AGE_ECOACT_INDUST_SEX_UNIT.zip)

The zip file consists of three files:

- Citation File in rtf format, simply tells you how to cite the data.
- Meta file: This file gives you further information about the data you have chosen. It includes full definitions for the components of your topic combination.
- Data file in csv format. This contains the data you have chosen.

Name	Type	Compressed size	Password ...	Size	Ratio
 citations.rtf	Rich Text Format	1 KB	No	2 KB	62%
 Data_AGE_ECOACT_INDUST_SEX_U...	Microsoft Excel Comma S...	13 KB	No	34 KB	63%
 Meta_AGE_ECOACT_INDUST_SEX_...	Microsoft Excel Comma S...	2 KB	No	14 KB	91%

Open up the data file and look at the results. Note that the second row contains the full label of the data you downloaded.

Practical 1b: Downloading 2011 Census aggregate data (Religion)

Using InFuse again, find out the number of Male and Female Christians aged 20 to 24 in the Local Authority of Trafford as well as all of the wards in Trafford.


Tip: Trafford is a Local Authority District within Greater Manchester. Greater Manchester is a metropolitan county (simply labelled *county* within InFuse)

Practical 1c: Download 1981 data in Casweb (optional)

- Access the Casweb homepage from: casweb.ukdataservice.ac.uk
- Click the ***Start Casweb***

Click the link to ***1981 Great Britain SAS***

You are now in a 3-step process: Define study area, Select Data and Output Data and we will take each step one at a time.



CSS1_Casweb Home Page - Mozilla Firefox

casweb.mimas.ac.uk/step0.cfm

Casweb - Census Area Statistics on the Web

Casweb is a web interface to aggregate data from the United Kingdom Census of Population. These large and complex datasets comprise counts of persons and households with particular characteristics for various geographical units.

Take a look at our [guide to Casweb](#), or [get in touch](#) if we can help any further.

Please select one of the datasets below to start the extraction process:

- [2001 Aggregate Statistics Datasets \(with digital boundary data\)](#)
- [2001 Aggregate Statistics Datasets for SOA Geography](#)
- [1991 Great Britain SAS and LBS \(with boundary data\)](#)
- [1991 Northern Ireland SAS](#)
- [1981 Great Britain SAS](#)
- [1971 Great Britain SAS](#)

Figure 1: Casweb - Select Data

Step 1 - Define Study Area

Follow these steps to define your study area:

1. First you need to select the country containing your study area. The area we want to extract data for is Greater Manchester, so you should select ***England*** and then click **Select counties/Regions**
2. Now you need to define the region of interest, which in this case is ***Greater Manchester*** Select ***Greater Manchester***



3. We have no need to define the study area at lower zones because we wish to extract data for all wards within Greater Manchester. So click **Select output level**

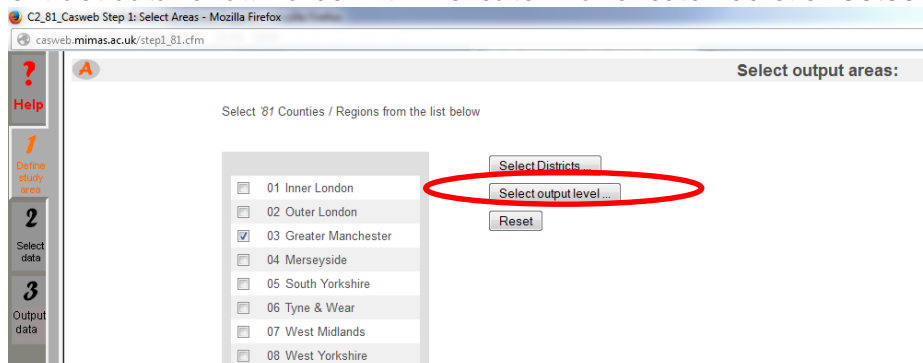


Figure 2: Select output level

4. As we are interested in wards, click Ward radio button in **B Select 81 Output geography** and then press the **Select data...** button.

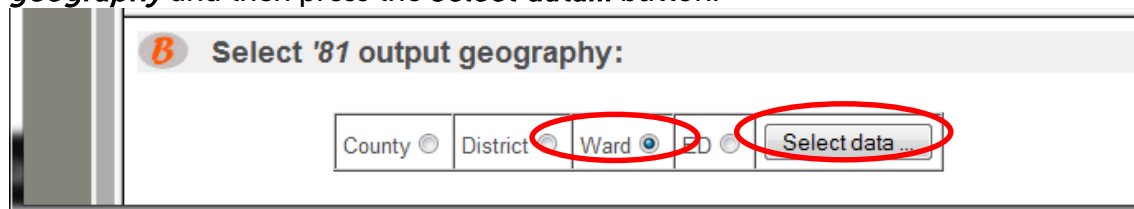


Figure 3: Select output level

To recap, you have started at the highest geographical level, worked your way down by refining your area as Greater Manchester, and chosen to output data for all wards in Greater Manchester. Now let's choose some data!

Step 2 - Select Data

Census data are held in tables. There are 53 tables available for the 1981 Census in Casweb.

Choose table **10 Tenure and amenities**

Click **Select variables**

Tick the boxes:

- All Households: H/H with residents
- Lack inside WC

Select variables from table sas81 10:

Select the data items you wish to extract individually or by row or column using the checkboxes. To add them to your variable output list click "Add variables to data selection".

[Click here](#) to select another table.

Tenure and amenities:
Households with residents, residents in households
NB: This table contains counts of Households and Persons

Tenure	Totals	Bath and inside WC present		Lack bath or inside WC	No inside bath or WC	Lack bath	Lack inside WC	Share inside WC	Persons per room		No car
		Both exclusive	One/both shared						>1.5 ppr	>1 up 1.5 ppr	
ALL HOUSEHOLDS											
H/H with residents	<input checked="" type="checkbox"/> 930	<input type="checkbox"/> 931	<input type="checkbox"/> 932	<input type="checkbox"/> 933	<input type="checkbox"/> 934	<input checked="" type="checkbox"/> 935	<input type="checkbox"/> 936	<input type="checkbox"/> 937	<input type="checkbox"/> 938	<input type="checkbox"/> 939	<input type="checkbox"/> 940
Persons in H/H	<input type="checkbox"/> 937	<input type="checkbox"/> 938	<input type="checkbox"/> 939	<input type="checkbox"/> 940	<input type="checkbox"/> 941	<input type="checkbox"/> 942	<input type="checkbox"/> 943	<input type="checkbox"/> 944	<input type="checkbox"/> 945	<input type="checkbox"/> 946	<input type="checkbox"/> 947
All Permanent Households											
H/H with residents	<input type="checkbox"/> 951	<input type="checkbox"/> 952	<input type="checkbox"/> 953	<input type="checkbox"/> 954	<input type="checkbox"/> 955	<input type="checkbox"/> 956	<input type="checkbox"/> 957	<input type="checkbox"/> 958	<input type="checkbox"/> 1079	<input type="checkbox"/> 1080	<input type="checkbox"/> 1111
Persons in H/H	<input type="checkbox"/> 959	<input type="checkbox"/> 960	<input type="checkbox"/> 961	<input type="checkbox"/> 962	<input type="checkbox"/> 963	<input type="checkbox"/> 964	<input type="checkbox"/> 965	<input type="checkbox"/> 966	<input type="checkbox"/> 1081	<input type="checkbox"/> 1082	<input type="checkbox"/> 1112
Owner Occupied											
H/H with	<input type="checkbox"/> 967	<input type="checkbox"/> 968	<input type="checkbox"/> 969	<input type="checkbox"/> 970	<input type="checkbox"/> 971	<input type="checkbox"/> 972	<input type="checkbox"/> 973	<input type="checkbox"/> 974	<input type="checkbox"/> 1083	<input type="checkbox"/> 1084	<input type="checkbox"/> 1113

Variable list:

No variables selected.

Zone attributes:

Zone ID

Zone Name

Easting

On the right of the screen you will notice that in the variable list it says No variables selected. Pushing the **Add variables to data selection** button will add the data you picked to the list of variables. Do this now and notice how the variables are listed as codes, for example 81sas100929. This is how the data will be labelled when you download it. 81sas refers to the census. 10 refers to the table ID, and 0929 refers to the cell id that you ticked. At this stage you may find it useful to rename the variables with the column headings from the table. Highlight the first variable 81sas100929 and click Rename. Enter the new name for the variable **AllHHwithRes** or similar, and select OK. The variable list will now automatically update. If you have downloaded a lot of data, we recommend not renaming the variables. But simply renaming them afterwards within Excel while referring to the table layout.

Click **Get data**



Select variables from table sas81 10:

Select the data items you wish to extract individually or by row or column using the checkboxes. To add them to your variable output list click "Add variables to data selection".

[Click here](#) to select another table.

Tenure and amenities:
Households with residents, residents in households

Add variables to data selection | **Select all** | **Clear all**

Tenure	Totals	Bath and inside WC present		Lack bath or inside WC	No inside bath or WC	Lack bath	Lack inside WC	Share inside WC	Persons per room		No car	
		Both exclusive	One/both shared						>1,5 ppr	>1 up 1.5 ppr		
ALL HOUSEHOLDS												
H/H with residents	<input type="checkbox"/>	929 <input checked="" type="checkbox"/>	930 <input type="checkbox"/>	931 <input type="checkbox"/>	932 <input type="checkbox"/>	933 <input type="checkbox"/>	934 <input type="checkbox"/>	935 <input checked="" type="checkbox"/>	936 <input type="checkbox"/>	945 <input type="checkbox"/>	946 <input type="checkbox"/>	949 <input type="checkbox"/>
Persons in H/H	<input type="checkbox"/>	937 <input type="checkbox"/>	938 <input type="checkbox"/>	939 <input type="checkbox"/>	940 <input type="checkbox"/>	941 <input type="checkbox"/>	942 <input type="checkbox"/>	943 <input type="checkbox"/>	944 <input type="checkbox"/>	947 <input type="checkbox"/>	948 <input type="checkbox"/>	950 <input type="checkbox"/>
All Permanent Households												
H/H with residents	<input type="checkbox"/>	951 <input type="checkbox"/>	952 <input type="checkbox"/>	953 <input type="checkbox"/>	954 <input type="checkbox"/>	955 <input type="checkbox"/>	956 <input type="checkbox"/>	957 <input type="checkbox"/>	958 <input type="checkbox"/>	1079 <input type="checkbox"/>	1080 <input type="checkbox"/>	1111 <input type="checkbox"/>
Persons in H/H	<input type="checkbox"/>	959 <input type="checkbox"/>	960 <input type="checkbox"/>	961 <input type="checkbox"/>	962 <input type="checkbox"/>	963 <input type="checkbox"/>	964 <input type="checkbox"/>	965 <input type="checkbox"/>	966 <input type="checkbox"/>	1081 <input type="checkbox"/>	1082 <input type="checkbox"/>	1112 <input type="checkbox"/>
Owner Occupied												
H/H with residents	<input type="checkbox"/>

Casweb will now process your request.

Step 3 - Output Data

You are now in the final stage of data extraction. Complete these remaining steps:

1. The data downloads option page will now appear. You can type a name into the filename box, let's enter **example1**

Execute query | Filename:

Choose output format:

ASCII (plain text) | Delimiter: | Text qualifier:

Your query ran successfully

Download data file

Open the file and take a look at the data.

That is the end of this exercise.



Practical 1d: Mapping data with Google Fusion

Before you start: You will need a Google account in order to map the data.

There are lots of tools that can be used to map data. Google Fusion is one which can be used online without having to download software.

Step 1

In this exercise we will map some 2011 census data. These data are Local Authority level data concerning the amount of people who work in the manufacturing industry. You downloaded these data in Practical 1a, but if you do not have these data to hand, then ask for the file.

Step 2

We need to make a few changes to the file to make it suitable to upload for mapping.

- Copy cells A1 to E1, paste in Cell A2
- Select and right click to delete Row 1
- Rename cell F1 to All people
- Rename cell G1 to All Males
- Rename cell H1 to All Females
- Rename cell I1 to Manufacturing
- Rename cell J1 Manufacturing Males
- Rename cell K1 Manufacturing Females
- Type P_Manufacturing in Cell L1
- In Cell L2 create a percentage of the amount of people who work in manufacturing in column H, by typing $=I2/F2*100$, and drag down to complete the column (optionally you can create percentages for Males and Females if you wish)
- Your file should look something like this:

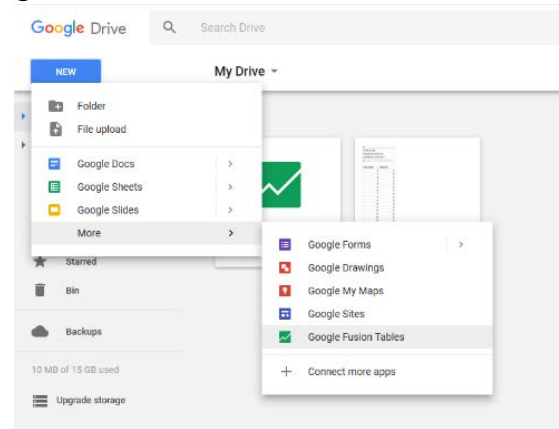
	A	B	C	D	E	F	G	H	I	J	K	L
1	CDU_ID	GEO_COD	GEO_LABE	GEO_TYPE	GEO_TYP2	All people	All Males	All Females	Manufacturing	Manufacturing Males	Manufacturing Females	P_Manufacturing
2	52	95AA	Antrim	Local Auth	LA	25595	13322	12273	2545	1912	633	9.94334831
3	53	95BB	Ards	Local Auth	LA	35743	18220	17523	2822	2265	557	7.895252217
4	54	95CC	Armagh	Local Auth	LA	26586	14128	12458	2914	2183	731	10.96065598
5	55	95DD	Ballymena	Local Auth	LA	29920	15788	14132	4426	3474	952	14.79278075
6	56	95EE	Ballymore	Local Auth	LA	13426	7171	6255	1645	1320	325	12.25234619
7	57	95FF	Banbridge	Local Auth	LA	22621	11945	10676	2298	1740	558	10.15870209
8	58	95GG	Belfast	Local Auth	LA	118754	59097	59657	6906	5455	1451	5.815383061
9	59	95HH	Carrickfergus	Local Auth	LA	18104	9189	8915	1810	1463	347	9.997790544
10	60	95II	Castlereagh	Local Auth	LA	32116	16055	16061	2304	1858	446	7.173994271
11	61	95JJ	Coleraine	Local Auth	LA	25272	13122	12150	2172	1684	488	8.594491928
12	62	95KK	Cookstown	Local Auth	LA	15996	8660	7336	2575	1959	616	16.09777444
13	63	95LL	Craigavon	Local Auth	LA	41320	21615	19705	6739	4926	1813	16.30929332
14	64	95MM	Derry	Local Auth	LA	40612	20649	19963	3567	2870	697	8.78311829
15	65	95NN	Down	Local Auth	LA	30910	15918	14992	1855	1398	457	6.00129408
16	66	95OO	Dungannon	Local Auth	LA	25646	13955	11691	5004	3608	1396	19.51181471
17	67	95PP	Fermanagh	Local Auth	LA	27574	14749	12825	2866	2114	752	10.39384928
18	68	95QQ	Larne	Local Auth	LA	14861	7695	7166	1820	1370	450	12.24682054
19	69	95RR	Limavady	Local Auth	LA	13217	7010	6207	1119	887	232	8.46636907
20	70	95SS	Lisburn	Local Auth	LA	54962	28211	26751	4737	3607	1130	8.618681998
21	71	95TT	Magheraferry	Local Auth	LA	19983	11010	8973	2510	1967	543	12.56067658
22	72	95UU	Moyle	Local Auth	LA	7021	3793	3228	491	386	105	6.993305797
23	73	95VV	Newry and	Local Auth	LA	41463	22034	19429	4533	3210	1323	10.93263874
24	74	95WW	Newtown	Local Auth	LA	39969	20151	19818	3564	2872	692	8.916910606
25	75	95XX	North Down	Local Auth	LA	36916	18887	18029	2452	1963	489	6.642106404
26	76	95YY	Omagh	Local Auth	LA	21676	11603	10073	2039	1662	377	9.406717106
27	77	95ZZ	Strabane	Local Auth	LA	15000	8153	6847	1358	1045	314	9.06

- Save the file as p-manuf.csv to an area you can access later

Step 3

In order to use Google Fusion Tables you will need a Google Account. Go to:

- <https://drive.google.com>
- Login with your Google account
- Click New > More > Google Fusion Tables OR
- If you cannot see Google Fusion Tables, click "Connect more apps", and search for "Google Fusion Tables"
- Browse to the p-manuf.csv file you have saved earlier (if you don't have this file ask for it)
- Click Next
- You will now see a preview of the data



Import new table

Column names are in row 1

1	CDU_ID	GEO_...	GEO_...	GEO_...	GEO_...	All people	All Males	All Fema...
2	52	95AA	Antrim	Local Autho...	LA	25595	13322	12273
3	53	95BB	Ards	Local Autho...	LA	35743	18220	17523
4	54	95CC	Armagh	Local Autho...	LA	26586	14128	12458
5	55	95DD	Bally...	Local Autho...	LA	29920	15788	14132
6	56	95EE	Bally...	Local Autho...	LA	13426	7171	6255
7	57	95FF	Banbri...	Local	LA	22621	11945	10676

Rows before the header row will be ignored.

New to Fusion Tables?
Take a peek! [Play with a data set](#) or [try a tutorial](#).

Cancel « Back Next »

- Click Next
- You can now fill in some details about the data.
You can cut and paste some of the citation information from:
<http://infuse.ukdataservice.ac.uk/help/citing.html>

The fields you fill in should look something like this:

Table name: *Manufacturing employment (% of people in 2011)*

Attribute data to: *Office for National Statistics ; National Records of Scotland ; Northern Ireland Statistics and Research Agency (2017): 2011 Census aggregate data. UK Data Service (Edition: February 2017).*



Attribution page link: <http://dx.doi.org/10.5257/census/aggregate-2011-2>

Description: *Percentage of people aged 16-74 working in the manufacturing industry by Local Authority, taken from the 2011 Census*

Click **Finish**

Import new table

Table name: Manufacturing employment (% of people in 2011)

Allow export: ?

Attribute data to: ce (Edition: February 2017). ?

Attribution page link: 7/census/aggregate-2011-2

Description: Percentage of people aged 16-74 working in the manufacturing industry by Local Authority, taken from the 2011 Census

For example, what would you like to remember about this table in a year?

New to Fusion Tables?
Take a peek! [Play with a data set](#) or [try a tutorial](#).

Cancel « Back Finish

Note: If you have downloaded data from different censuses from the UK Data Service, you can find all of the citation information at: <https://census.ukdataservice.ac.uk/use-data/citing-data>

You have now uploaded your data to Fusion tables.

Step 4

To map the data you will need to add the boundaries. The boundaries must match the data, we're using 2011 Local Authority District boundaries for the UK. We have links to the boundaries in InFuse.

- Open a new window
- infuse.ukdataservice.ac.uk
- In the left hand menu, click "2011 geographies"
- Scroll down to Local Authorities
- Right click *KML simplified boundaries*, and click "**copy link location**"

Local Authorities

The Local Authorities area list contains 404 areas of the following constituent geographies:

- 36 Metropolitan Districts in England.
- 201 Non-metropolitan Districts in England.
- 31 London Boroughs in England.
- 54 Unitary Authorities in England.
- 26 Local Government Districts in Northern Ireland.
- 32 Council Areas in Scotland.
- 22 Unitary Authorities in Wales.
- 2 Census Merged Districts* in England.

The Local Authorities area list provides complete coverage of the United Kingdom.

- [Local Authorities area list \(XLSX format\)](#)
- [Local Authorities area list \(CSV format\)](#)

Boundaries for Local Authorities areas:

- [ArcGIS SHAPE zip \(47.9 MB\)](#)
- [MapInfo TAB zip \(46.1 MB\)](#)
- [KML simplified boundaries](#)

* Four census districts (1% of the population) are not available for the merging process as they were merged.

Boundaries for Merging Local Authorities:

- [ArcGIS SHAPE zip \(1.1 MB\)](#)
- [MapInfo TAB zip \(1.0 MB\)](#)

Note: Only KML simplified boundaries will work, the other types of boundaries are too large for Google Fusion

- Go to: File > Merge
- At the bottom of the popup you can see "or paste a web address here", paste in the link you copied earlier
- Click Next

Manufacturing employment (% of people in 2011)
 Percentage of people aged 16-74 working in the manufacturing industry by Local Authority, taken from... more >>
 Office for National Statistics - National Records of Scotland - Northern Ireland Statistics and Research... - Edited at 14:46

			GEO_TYPE	GEO_TYP2	All people	All Males	All Females	Manufacturing	Manufacturin...	Manufacturi...	P_Manufacturing
			Local Authorities	LA	25595	13322	12273	2545	1912	633	9.94334831
			Local Authorities	LA	35743	18220	17523	2822	2265	557	7.895252217
			Local Authorities	LA	26586	14128	12458	2914	2183	731	10.96065598
			Local Authorities	LA	29920	15788	14132	4426	3474	952	14.79278075
			Local Authorities	LA	13426	7171	6255	1645	1320	325	12.25234619
			Local Authorities	LA	22621	11945	10676	2298	1740	558	10.15870209
			Local Authorities	LA	118754	59097	59657	6906	5455	1451	5.815383061
			Local Authorities	LA	18104	9189	8915	1810	1463	347	9.997790544
			Local Authorities	LA	32116	16055	16061	2304	1858	446	7.173994271
61	95JJ	Coleraine	Local Authorities	LA	25272	13122	12150	2172	1684	488	8.594491928
62	95KK	Cookstown	Local Authorities	LA	15996	8660	7336	2575	1959	616	16.09777444
63	95LL	Craigavon	Local Authorities	LA	41320	21615	19705	6739	4926	1813	16.30929332
64	95MM	Derry	Local Authorities	LA	40612	20649	19963	3567	2870	697	8.78311829
65	95NN	Down	Local Authorities	LA	30910	15918	14992	1855	1398	457	6.00129408



Note: You can find other boundaries at:
https://borders.ukdataservice.ac.uk/easy_download.html

- Ensure geo_code is selected from both "this table" and "UK 2011 Census Local Auth..." using the drop down menus
- Click Next
- Check all columns are selected
- Click Merge
- Click View table

You may need to wait a little bit of time for the data to be processed. Once complete you will receive a popup, click **View table**

- Click the **Map of geometry tab**

Merge of Manufacturing employment (% of people in 2011) and UK 2011 Census Local Authorities

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File Edit Tools Help Rows 1 Cards 1 Map of geometry

Filter No filters applied

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GEO_CODE	CDU_ID	GEO_LABEL	GEO_TYPE	GEO_TYP2	All people	Manufacturing	P_Manufacturing	geo_label	geometry
95AA	52	Antrim	Local Authorities	LA	25595	2545	9.94334831	Antrim	KML...
95BB	53	Ards	Local Authorities	LA	35743	2822	7.895252217	Ards	KML...
95CC	54	Armagh	Local Authorities	LA	26586	2914	10.96065598	Armagh	KML...
95DD	55	Ballymena	Local Authorities	LA	29920	4426	14.79278075	Ballymena	KML...
95EE	56	Ballymoney	Local Authorities	LA	13426	1645	12.25234619	Ballymoney	KML...
95FF	57	Banbridge	Local Authorities	LA	22621	2298	10.15870209	Banbridge	KML...
95GG	58	Belfast	Local Authorities	LA	118754	6906	5.815383061	Belfast	KML...
95HH	59	Carrickfergus	Local Authorities	LA	18104	1810	9.997790544	Carrickfergus	KML...
95II	60	Castlereagh	Local Authorities	LA	32116	2304	7.173994271	Castlereagh	KML...
95JJ	61	Coleraine	Local Authorities	LA	25272	2172	8.594491928	Coleraine	KML...

- Click on "Map of geometry", You should now see a map.

Merge of Manufacturing employment (% of people in 2011) and UK 2011 Census ...

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Filter No filters applied

Saved 404 rows

Configure map

Done

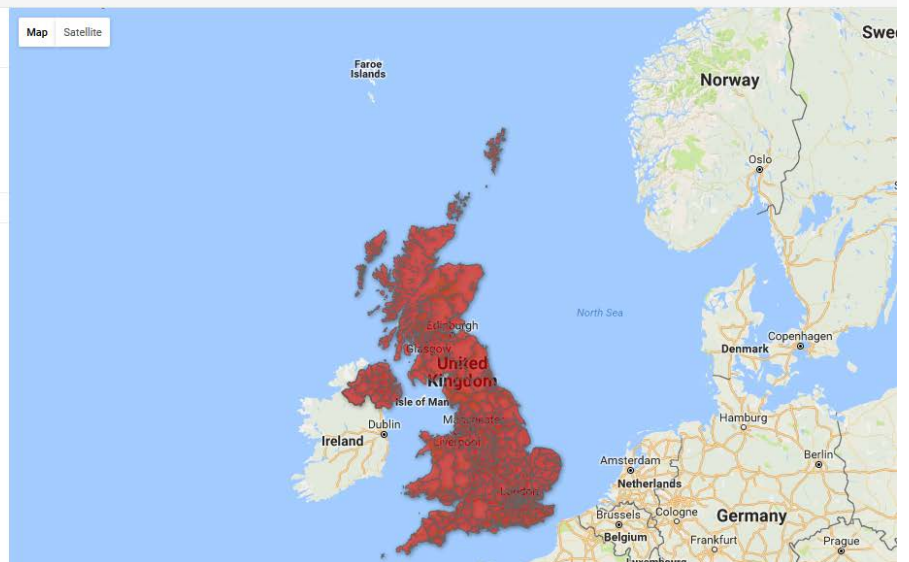
Location geometry

Feature map

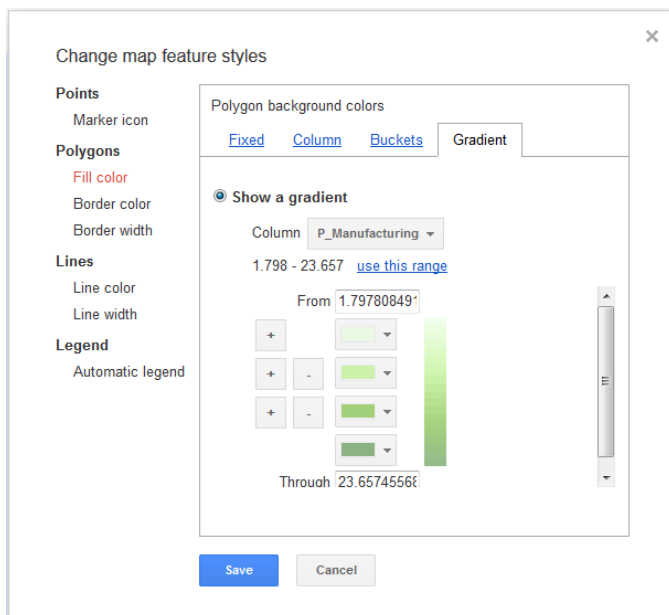
Change feature styles...

Change info window...

Heatmap



- Click "change features styles"
- Click "Fill color"
- Click "Gradient"
- Click "Show a gradient"
- Change the column to "P_Manufacturing"
- By default the range of 1 to 100 will be used, but you can change this, click on "use this range" next to 1.798-23.657



- Click Save

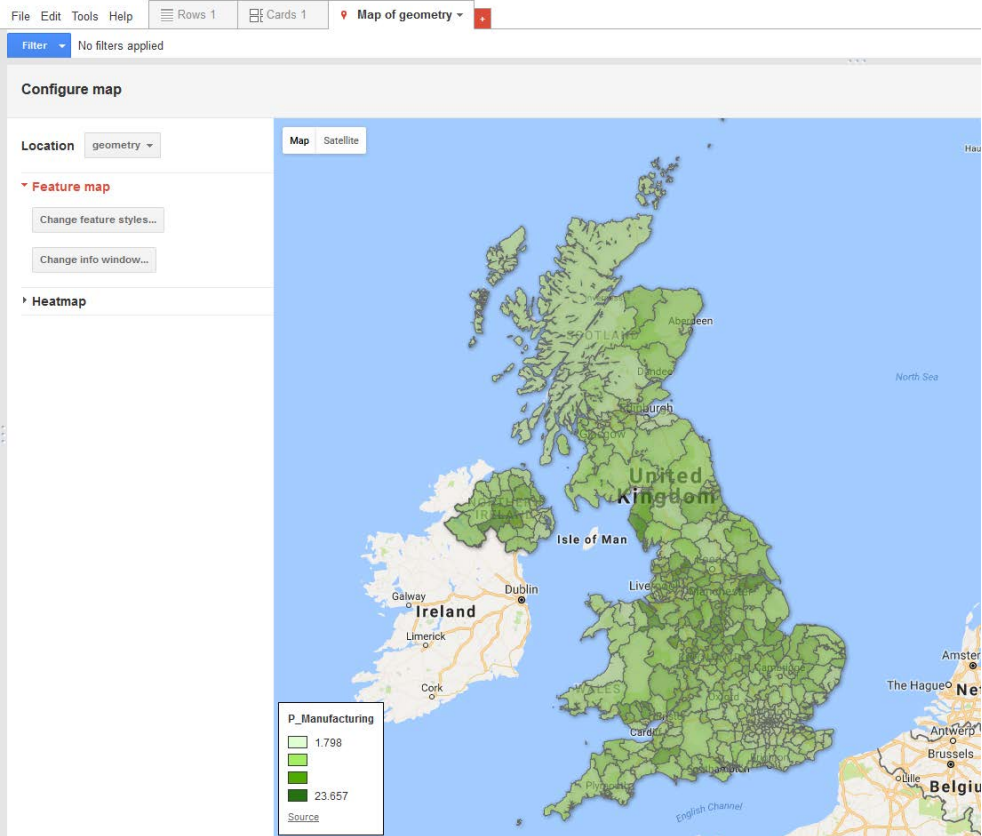
Your map should look like this:



You could change aspects such as the colours, the amount and bandings of the classifications. It's also a good idea to add a legend, as shown in the screen shot below. Play around with the options.

Merge of Manufacturing employment (% of people in 2011) and UK 2011 Census Local Authorities

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That's it, if you have time feel free to create another map, and try out the different options.