# Nomis

Nomis is a great tool for finding your way around labour market data in Great Britain[1]. To explore nomis, go to the website – www.nomisweb.co.uk
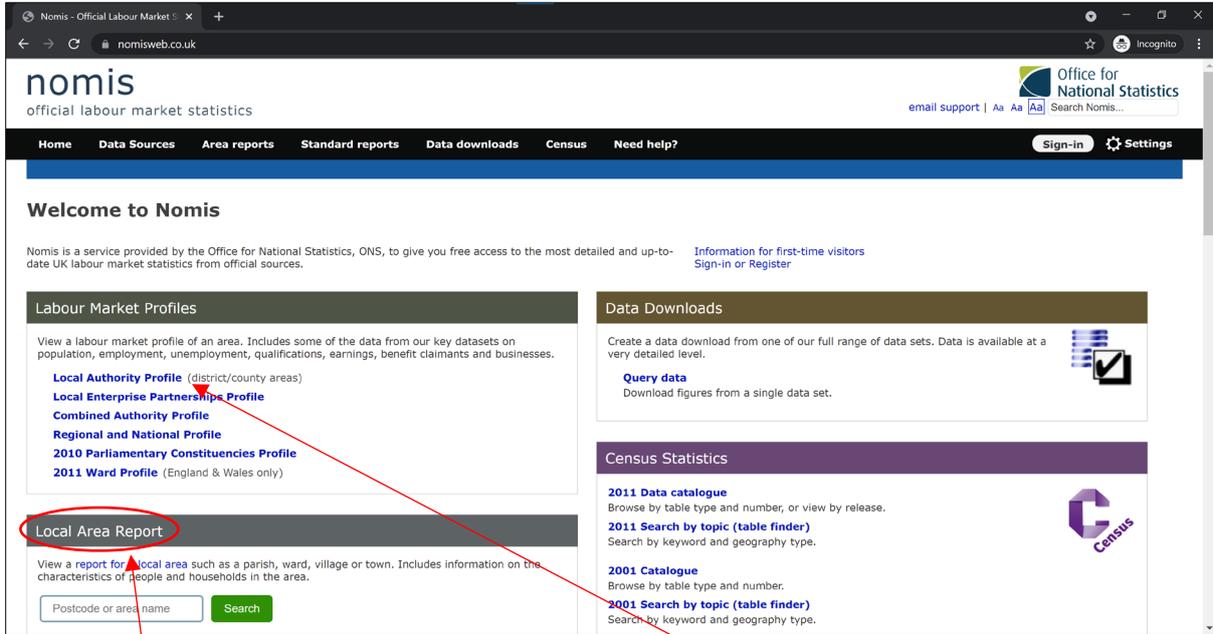


The easiest first step, is to search for a **profile of your local area**.

The Local Area Report will take you to information contained in the census. This can be useful for understanding the demographic characteristics of your local area.

Otherwise, you can choose the local profile that best fits your needs, for example Local Authority.
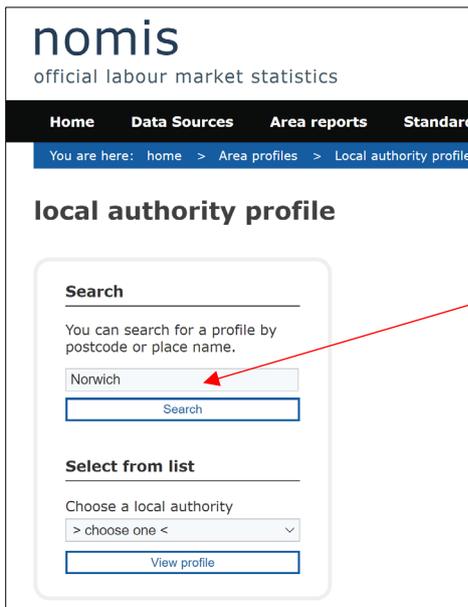


When you click on this, you can type the name of the local area if you're not sure of the exact name.

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[1] NOTE: go to https://www.ninis2.nisra.gov.uk/public/Home.aspx for Northern Ireland's labour market data

You will then get options to choose from. Let's look at the first one, which is Norwich's local council.



First, you will find the contents of what is on the page, and a map.



When you scroll, you will see that you can compare information in each section to other areas. This is automatically set to help you compare to your local region, and the country as a whole.

You will then see all of the different topics, and the sources of the data.

## Labour Supply

### Employment and unemployment (Apr 2020-Mar 2021)

| | Norwich (Numbers) | Norwich (%) | East (%) | Great Britain (%) |
|---|---|---|---|---|
| **All People** | | | | |
| Economically Active† | 82,600 | 82.3 | 80.5 | 78.7 |
| In Employment† | 78,200 | 77.7 | 76.9 | 74.8 |
| Employees† | 72,100 | 72.0 | 66.6 | 65.0 |
| Self Employed† | # | # | 10.1 | 9.6 |
| Unemployed (Model-Based)§ | 3,900 | 4.7 | 4.3 | 4.9 |
| **Males** | | | | |
| Economically Active† | 45,000 | 86.8 | 84.8 | 82.4 |
| In Employment† | 41,600 | 79.9 | 81.5 | 78.0 |
| Employees† | 37,900 | 72.5 | 68.3 | 65.5 |
| Self Employed† | # | # | 13.0 | 12.2 |
| Unemployed§ | # | # | 3.8 | 5.2 |
| **Females** | | | | |
| Economically Active† | 37,600 | 77.5 | 76.3 | 75.1 |
| In Employment† | 36,600 | 75.4 | 72.4 | 71.6 |
| Employees† | 34,200 | 71.5 | 65.0 | 64.5 |
| Self Employed† | # | ! | 7.1 | 6.9 |
| Unemployed§ | ! | ! | 4.9 | 4.5 |

Source: ONS annual population survey
\# Sample size too small for reliable estimate (see definitions)
! Estimate is not available since sample size is disclosive (see definitions)
† - numbers are for those aged 16 and over, % are for those aged 16-64
§ - numbers and % are for those aged 16 and over. % is a proportion of economically active

view time-series     compare other areas     query dataset...⊞

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## Task:

Try to find your local area. Have a look at how it compares to the region and the country.

Another great tool in nomis is the **table builder**. Let's look at how you can build on the local reports to create your own bespoke tables.

If you click on 'query dataset', you will be taken a tool to build your own table.

**Females**

| | | | | |
|---|---|---|---|---|
| Economically Active† | 37,600 | 77.5 | 76.3 | 75.1 |
| In Employment† | 36,600 | 75.4 | 72.4 | 71.6 |
| Employees† | 34,200 | 71.5 | 65.0 | 64.5 |
| Self Employed† | # | ! | 7.1 | 6.9 |
| Unemployed§ | ! | ! | 4.9 | 4.5 |

Source: ONS annual population survey
\# Sample size too small for reliable estimate (see definitions)
! Estimate is not available since sample size is disclosive (see definitions)
† - numbers are for those aged 16 and over, % are for those aged 16-64
§ - numbers and % are for those aged 16 and over. % is a proportion of economically active

📊 view time-series          🖹 compare other areas          🔍 query dataset... ⊞

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...ulation survey    Change dataset
...ercentages)    Change analysis

...by-step

**Summary of selections**

Begin first step of guidance

This is a summa... ...he selections you have made so far

**Getting started...**

Click the **Begin** button to start making selections

Turn tips off          Got it

...ns:

...ections          them then clic...

(... to April 2015)

☑ Norwich 👤

country
☑ *Tick to select columns*
☑ Great Britain

When you first start working with nomis, you will see many helpful tip boxes. It can be useful to work with these, but let's look at the page it directs you to first.

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You can see that the geographical areas are the same ones that were on the area profile page.

**annual population survey**    Change dataset
analysis: variables (percentages)    Change analysis

☑ Guide me step-by-step
**Make selections:**
Geography
Date
Variable
**Review selections:**
Summary Of Selections
**Get your data:**
Format / Layout
Download Data

**Summary of selections**

Begin first step of guidance

This is a summary of the selections you have made so far

**Summary Of Selections**

Remove selections, or change their order by dragging them then click the save button to keep changes. To undo changes made, move on to any another page.

| Geography | local authority: district / unitary (prior to April 2015) 👤 |
|---|---|
| | ☑ *Tick to select columns* |
| | ☑ Norwich 👤 |
| | country |
| | ☑ *Tick to select columns* |
| | ☑ Great Britain |
| | region ⓘ 👤 |
| | ☑ *Tick to select columns* |
| | ☑ East 👤 |
| Date | Mar 2021 (latest data) (default) |
| Variable | This needs to be selected |

Save changes to selections

The date, too, defaults to the most recent release. You can change these but let's just leave them as they are and edit the one part that needs attention: variable.



Again, when you click 'Variable', this will take you to the selection you had been looking at on the area profile page, in this case it was labour supply. You can select which items you want to put into your table by clicking in the boxes of the ones you want.



However, you can also **change the topic** by clicking on the dropdown box.

For example, let's look at weekly hours worked.



If you click the 'tick all' box, this saves time. It can also be useful to have all the data to start with when you first start building tables.

Now that all the selections have been made, we need to check the format for download. The default is normally Excel.



You can then choose Download Data to get the file.

TOP TIP:

You can always use this navigation bar to edit your table.

You will need to confirm that you want to download the Excel file. Then you can open it from your downloads folder (or wherever you set downloads to go!).

Here's what the spreadsheet looks like.

A1    fx    annual population survey

| | annual population survey | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | F | G | H | I | J | K | L | M |
| 1 | annual population survey | | | | | | | | | | | | |
| 2 | ONS Crown Copyright Reserved [from Nomis on 11 October 2021] | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | |
| 4 | confidence | 95% confidence interval of percent figure (+/-) | | | | | | | | | | | |
| 5 | date | Apr 2020-Mar 2021 | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | |
| 7 | Variable | | ualad09:Norwich | | | | country:Great Britain | | | | gor:East | | |
| 8 | | numerator | denominator | percent | conf | numerator | denominator | percent | conf | numerator | denominator | percent | conf |
| 9 | % of all in employment who work | ! | 75,900 | ! | ! | 845,800 | 30,623,100 | 2.8 | 0.1 | 87,800 | 2,994,200 | 2.9 | 0.4 |
| 10 | % of all in employment who work | 21,400 | 75,900 | 28.2 | 8.9 | 8,109,200 | 30,623,100 | 26.5 | 0.3 | 781,200 | 2,994,200 | 26.1 | 1.0 |
| 11 | % of all in employment who work | 41,800 | 75,900 | 55.0 | 9.8 | 15,195,900 | 30,623,100 | 49.6 | 0.3 | 1,465,300 | 2,994,200 | 48.9 | 1.2 |
| 12 | % of all in employment who work | 12,000 | 75,900 | 15.9 | 7.2 | 6,472,200 | 30,623,100 | 21.1 | 0.3 | 659,800 | 2,994,200 | 22.0 | 1.0 |
| 13 | % of males in employment who w | ! | 40,100 | ! | ! | 281,400 | 15,934,900 | 1.8 | 0.1 | 28,400 | 1,582,300 | 1.8 | 0.4 |
| 14 | % of males in employment who w | 7,200 | 40,100 | 17.8 | 10.5 | 2,248,900 | 15,934,900 | 14.1 | 0.3 | 212,600 | 1,582,300 | 13.4 | 1.1 |
| 15 | % of males in employment who w | 24,200 | 40,100 | 60.3 | 13.4 | 8,860,000 | 15,934,900 | 55.6 | 0.5 | 867,600 | 1,582,300 | 54.8 | 1.6 |
| 16 | % of males in employment who w | 8,200 | 40,100 | 20.5 | 11.1 | 4,544,500 | 15,934,900 | 28.5 | 0.4 | 473,700 | 1,582,300 | 29.9 | 1.5 |
| 17 | % of females in employment who | ! | 35,800 | ! | ! | 564,300 | 14,688,200 | 3.8 | 0.2 | 59,400 | 1,411,900 | 4.2 | 0.7 |
| 18 | % of females in employment who | 14,200 | 35,800 | 39.8 | 14.0 | 5,860,300 | 14,688,200 | 39.9 | 0.5 | 568,600 | 1,411,900 | 40.3 | 1.6 |
| 19 | % of females in employment who | 17,600 | 35,800 | 49.1 | 14.3 | 6,335,900 | 14,688,200 | 43.1 | 0.5 | 597,700 | 1,411,900 | 42.3 | 1.6 |
| 20 | % of females in employment who | 3,800 | 35,800 | 10.6 | * | 1,927,700 | 14,688,200 | 13.1 | 0.3 | 186,200 | 1,411,900 | 13.2 | 1.1 |
| 21 | | | | | | | | | | | | | |
| 22 | ! Estimate and confidence interval not available since the group sample size is zero or disclosive (0-2). | | | | | | | | | | | | |
| 23 | * Estimate and confidence interval unreliable since the group sample size is small (3-9). | | | | | | | | | | | | |
| 24 | The estimates for Northern Ireland released on 14 Sep 2021 have not had the non-response bias adjustment from the reweighting fully applied. Early indications suggest the impact on UK headline rate estimates would be less than 0.1 percentage point. | | | | | | | | | | | | |

Data

Ready

# Task:

Make your own table from one of the topics on your local area profile.

Let's look at another feature of nomis that relates to reports. We're going to work with the same data as in the previous section. If we go back to the original table creation page, we can see that we were working with percentages. Let's **change the analysis** by clicking here.
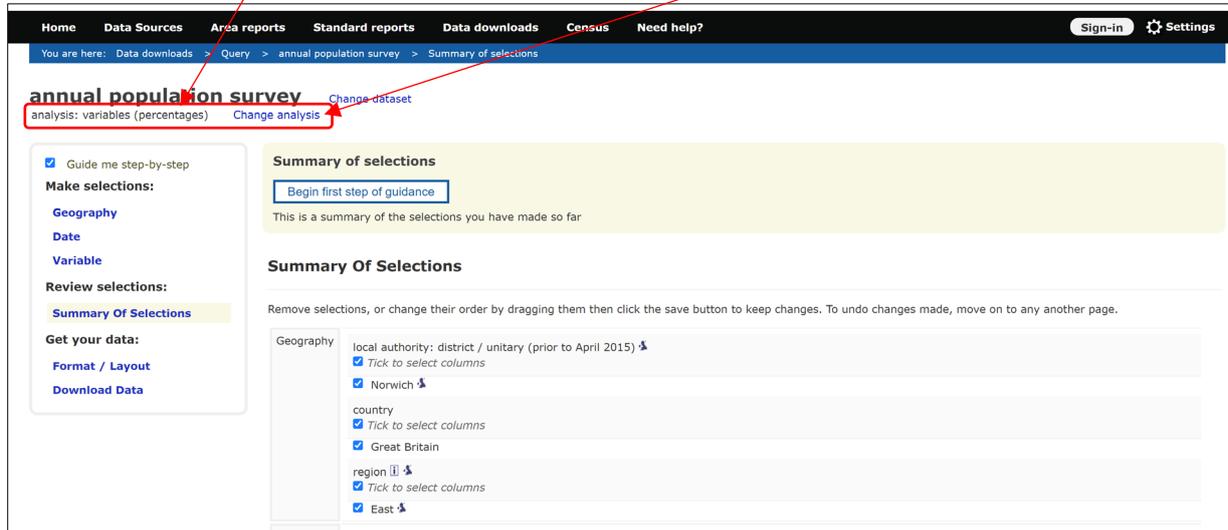


Let's make some tables that show the information in sections instead.
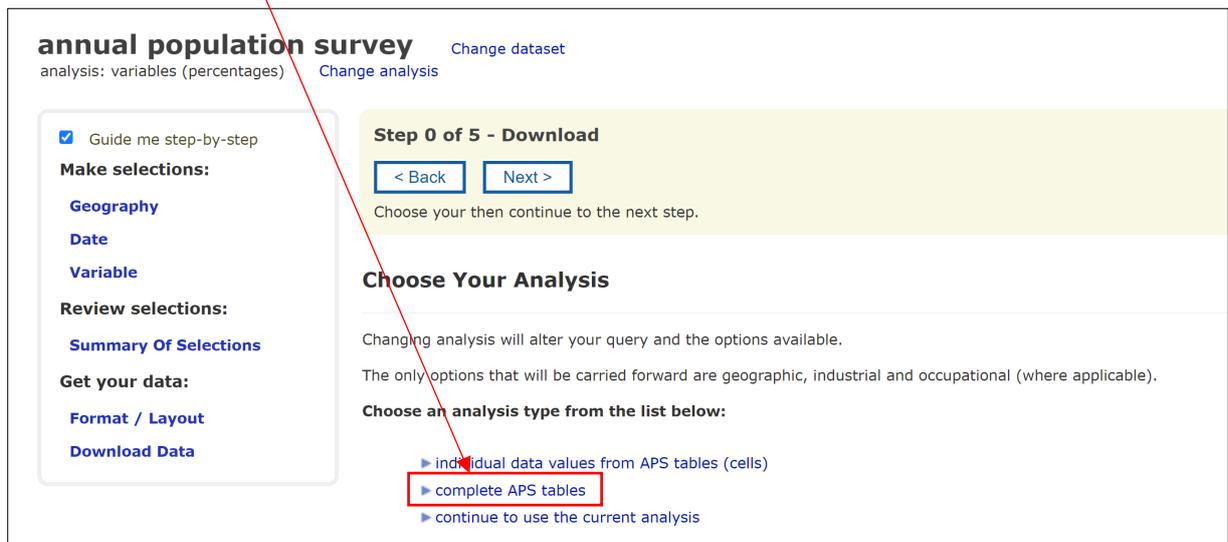


The process is the same as before. But, this time, you need to edit 'Table' instead of 'variable'
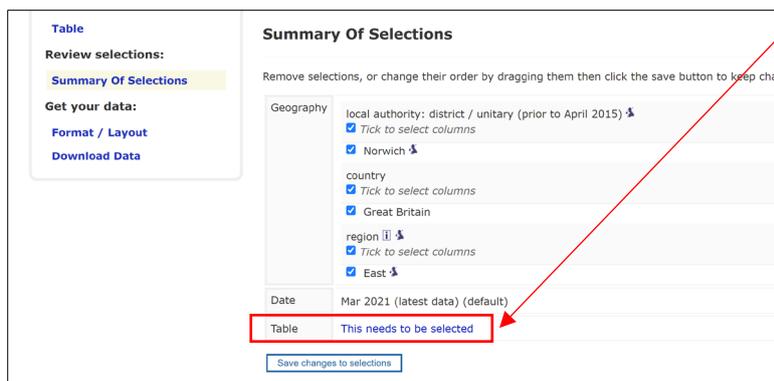
The name of the table is slightly different, too, so you need to check it is the correct topic. Instead of 'Hours worked weekly', it is 'Usual hours worked'.



You can got through the stages to check your format. This time, though, the format default is a .csv file. There is no option to change it. This will still open in Excel – don't worry!

The new file shows the same data, but laid out differently. Now you can see each area has its own table of information. You may find this easier to read. It might also be simpler if you are only looking at one specific area.

| | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| 1 | Dataset | annual population survey | | | | |
| 2 | Source | : ONS Crown Copyright Reserved [from Nomis on October 11 2021] | | | | |
| 3 | | | | | | |
| 4 | Area Type | local authorities: district / unitary (prior to April 2015) | | | | |
| 5 | Area Name | Norwich | | | | |
| 6 | Date | : Apr 2020-Mar 2021 | | | | |
| 7 | | | | | | |
| 8 | Table: T17 | Usual hours worked | | | | |
| 9 | | | | | | |
| 10 | | All people | Male | Female | | |
| 11 | | | | | | |
| 12 | Under 10 | ! | ! | ! | | |
| 13 | 10 to 34 | 21400 | 7200 | 14200 | | |
| 14 | 35 to 44 | 41800 | 24200 | 17600 | | |
| 15 | 45 hours pl | 12000 | 8200 | 3800 | | |
| 16 | All in empl | 75900 | 40100 | 35800 | | |
| 17 | All in empl | 76700 | 40900 | 35800 | | |
| 18 | Footnote: | | | | | |
| 19 | 1. *Excludes people with hours not stated and those on college based schemes | | | | | |
| 20 | 2. **Total of those with hours stated | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | - These figures are missing. | | | | | |
| 24 | ! Estimate and confidence interval not available since the group sample size is zero or disclosive (0-2) | | | | | |
| 25 | ~ Estimate is less than 500 | | | | | |
| 26 | | | | | | |

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# Task

Go back to the table you created earlier. Try to change the analysis so that the format of the table is different.

There are other ways to build tables. Let's build one **direct from a data source**. From the Home page, go to Data Sources and choose Annual Population Survey / Labour Force Survey.



We're going to look at the workplace analysis. Click on this option.

This will default to the type of analysis, we haven't met yet: cells. Remember, you can change this to percentage or table, but let's work with cells this time.



We need to choose geography. This has not been automatically selected this time as we have not entered the table builder via a local area profile. There are many options to choose from. If you know the type of local authority your council is, you can click on the correct option.

Again, though, it can be simpler to just search for the place you want.

This time we can compare Norwich, to Norfolk, and then to the larger region: East of England.



Again, the date will default to the most up-to-date. You can change this to compare points across time. I will leave this as it is for now, though.

Instead, let's choose which tables we want to select, so that we can populate it with the cells we are most interested in. Let's choose T10b: Employment by occupation and industry.



We then have to choose what to include in our table.

TOP TIP:

'tick all' saves lots of clicks!

Clicking further down a row or column will tick or untick all the selections that are before it, in all directions. This can be useful if you want to select one sex but not the other, for example.

I'm going to choose all options for both sexes, but deselect the options for 'all people'.



The result is a lot of information, but not in a very clear format.

**annual population survey – workplace analysis**

| | | Analysis | standard |
| Date | Apr 2020-Mar 2021 |
| Confidence | 95% confidence interval (+/-) |

| Cell | lacu:Norfolk | | ladu:Norwich | | gor:East | |
|---|---|---|---|---|---|---|
| | Number | Conf | Number | Conf | Number | Conf |
| T10b:91 (Males - 1 Managers, Directors and Senior Officials (SOC2010) : A Agriculture & fishing (SIC 2007) ) | ! | ! | ! | ! | 3,200 | * |
| T10b:92 (Males - 1 Managers, Directors and Senior Officials (SOC2010) : B,D,E Energy & water (SIC 2007) ) | ! | ! | ! | ! | ! | ! |
| T10b:93 (Males - 1 Managers, Directors and Senior Officials (SOC2010) : C Manufacturing (SIC 2007) ) | 4,000 | * | ! | ! | 25,300 | 6,000 |
| T10b:94 (Males - 1 Managers, Directors and Senior Officials (SOC2010) : F Construction (SIC 2007) ) | 3,800 | * | ! | ! | 23,200 | 6,000 |
| T10b:95 (Males - 1 Managers, Directors and Senior Officials (SOC2010) : G,I Distribution, hotels & restaurants (SIC 2007) ) | 8,300 | 4,000 | ! | ! | 46,400 | 8,400 |
| T10b:96 (Males - 1 Managers, Directors and Senior Officials (SOC2010) : H,J Transport & Communication (SIC 2007) ) | 2,000 | * | ! | ! | 24,800 | 6,200 |
| T10b:97 (Males - 1 Managers, Directors and Senior Officials (SOC2010) : K-N Banking finance & insurance etc. (SIC 2007) ) | 4,000 | * | 1,400 | * | 45,500 | 8,300 |
| T10b:98 (Males - 1 Managers, Directors and Senior Officials (SOC2010) : O-Q Public admin education & health (SIC 2007) ) | 2,800 | * | ! | ! | 21,100 | 5,700 |
| T10b:99 (Males - 1 Managers, Directors and Senior Officials (SOC2010) : R-U Other services (SIC 2007) ) | 1,500 | * | ! | ! | 10,000 | 3,900 |
| T10b:100 (Males - 1 Managers, Directors and Senior Officials (SOC2010) : G-Q Total Services (SIC 2007) ) | 18,600 | 6,000 | 4,900 | * | 147,900 | 15,000 |
| T10b:101 (Males - 2 Professional Occupations (SOC2010) : A Agriculture & fishing (SIC 2007) ) | ! | ! | ! | ! | ! | ! |
| T10b:102 (Males - 2 Professional Occupations (SOC2010) : B,D,E Energy & water (SIC 2007) ) | ! | ! | ! | ! | 3,200 | 2,200 |
| T10b:103 (Males - 2 Professional Occupations (SOC2010) : C Manufacturing (SIC 2007) ) | 3,700 | * | ! | ! | 26,700 | 6,400 |
| T10b:104 (Males - 2 Professional Occupations (SOC2010) : F Construction (SIC 2007) ) | 1,300 | * | ! | ! | 16,900 | 5,100 |
| T10b:105 (Males - 2 Professional Occupations (SOC2010) : G,I Distribution, hotels & restaurants (SIC 2007) ) | ! | ! | ! | ! | 12,000 | 4,300 |
| T10b:106 (Males - 2 Professional Occupations (SOC2010) : H,J Transport & Communication (SIC 2007) ) | 6,600 | 3,600 | 2,900 | * | 56,900 | 9,300 |
| T10b:107 (Males - 2 Professional Occupations (SOC2010) : K-N Banking finance & insurance etc. (SIC 2007) ) | 7,400 | 3,800 | 3,400 | * | 59,300 | 9,500 |
| T10b:108 (Males - 2 Professional Occupations (SOC2010) : O-Q Public admin education & health (SIC 2007) ) | 12,500 | 4,900 | 4,600 | 3,500 | 83,500 | 11,300 |
| T10b:109 (Males - 2 Professional Occupations (SOC2010) : R-U Other services (SIC 2007) ) | ! | ! | ! | ! | 7,200 | 3,300 |

Instead, if you change the type of analysis to 'APS table', you will see the data in a format that is much easier to read. Again, it shows each section as a different area.

| | A | B | C | D | E | F | G | H | I | J | K | L | M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Dataset : | annual population survey - workplace analysis | | | | | | | | | | | |
| 2 | Source : | ONS Crown Copyright Reserved [from Nomis on October 11 2021] | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | |
| 4 | Area Type : | local authorities: county / unitary (as of April 2021) | | | | | | | | | | | |
| 5 | Area Name : | Norfolk | | | | | | | | | | | |
| 6 | Date : | Apr 2020-Mar 2021 | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | |
| 8 | Table: T10b Employment by occupation (SOC2010) and industry (SIC 2007) | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | |
| 10 | | A Agricultur | B,D,E Energ | C Manufac | F Construc | G,I Distribu | H,J Transpo | K-N Banking finance & | O-Q Public | R-U Other : | G-Q Total Services | | |
| 11 | | | | | | | | | | | | | |
| 22 | Males | | | | | | | | | | | | |
| 23 | 1 Managers, Directors and Senior Officials | ! | ! | 4000 | 3800 | 8300 | 2000 | 4000 | 2800 | 1500 | 18600 | | |
| 24 | 2 Professional Occupations | ! | ! | 3700 | 1300 | ! | 6600 | 7400 | 12500 | ! | 28100 | | |
| 25 | 3 Associate Prof & Tech Occupations | ! | ! | 2200 | ! | 4700 | ! | 10100 | 10200 | 2500 | 27900 | | |
| 26 | 4 Administrative and Secretarial Occupations | ! | ! | ! | ! | ! | ! | 7400 | 2900 | ! | 11400 | | |
| 27 | 5 Skilled Trades Occupations | ! | ! | 8500 | 12200 | 7400 | ! | 6100 | ! | 4300 | 20600 | | |
| 28 | 6 Caring, Leisure and Other Service Occupations | ! | ! | ! | ! | ! | ! | ! | 9000 | ! | 10900 | | |
| 29 | 7 Sales and Customer Service Occupations | ! | ! | ! | ! | 5800 | ! | ! | ! | ! | 7800 | | |
| 30 | 8 Process, Plant and Machine Operatives | ! | ! | 5300 | 1900 | 3700 | 7600 | 1400 | 1400 | ! | 14200 | | |
| 31 | 9 Elementary occupations | 1700 | ! | 2200 | ! | 8500 | 3200 | 5900 | ! | ! | 18500 | | |
| 32 | Females | | | | | | | | | | | | |
| 33 | 1 Managers, Directors and Senior Officials | ! | ! | ! | 1800 | 4300 | ! | 5400 | 4600 | 1400 | 15700 | | |
| 34 | 2 Professional Occupations | ! | ! | ! | ! | ! | ! | 5400 | 26100 | 2200 | 34900 | | |
| 35 | 3 Associate Prof & Tech Occupations | ! | ! | 2100 | ! | 2100 | ! | 5600 | 11400 | 1900 | 21300 | | |
| 36 | 4 Administrative and Secretarial Occupations | ! | ! | 1100 | 3100 | 4700 | 2900 | 8700 | 12900 | 2700 | 31900 | | |
| 37 | 5 Skilled Trades Occupations | ! | ! | ! | ! | 4100 | ! | 1100 | ! | ! | 7400 | | |

So… nomis takes practice! It is a good idea to try different formats and different layouts. Depending on how much data is in your table, you may need to change the layout.

## Task:

Build your own table from the Home page. Don't worry if your spreadsheet looks messy! Just keep playing with the settings until you get a format that works for you.