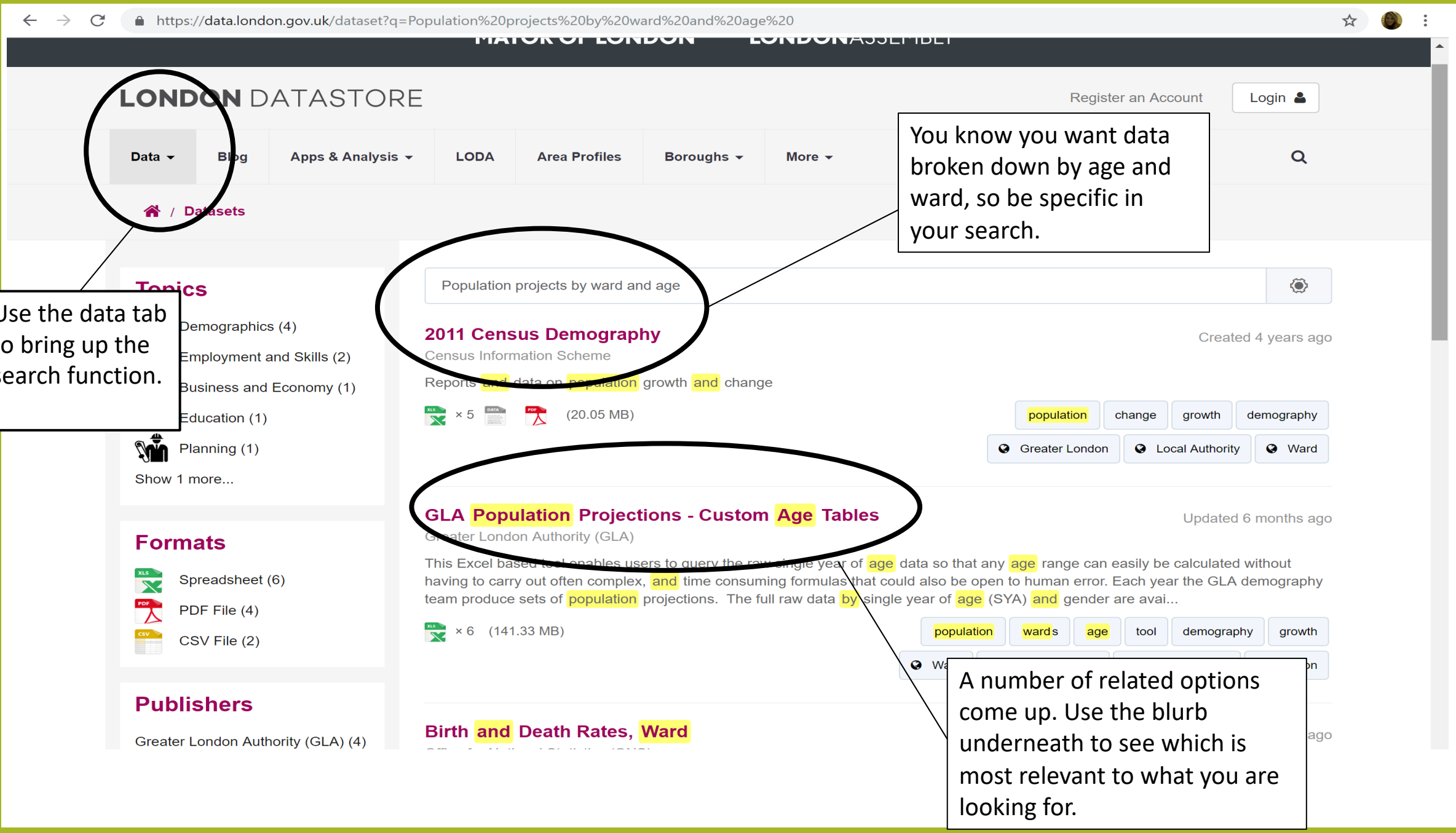
UNDERSTANDING THE IMPACT OF WARD LEVEL POPULATION GROWTH ON YOUR SERVICES

Scenario

- You run an after-school homework club for 14-16 year olds in the London Borough of Barking and Dagenham, in the wards Albion, Eastbury and Gascoigne.
- In order to run the service successfully you need 1 staff member or volunteer for every 5 children who attend. You currently have 50 students attending, with 10 staff/volunteers.
- You are about to apply for funding to keep this club running for the next 5 years, until 2023.
- We can use the Datastore to see if it holds data which can help us project population growth by ward and therefore allow us to estimate the number of staff we will need by 2023.

Step 1 – Get your data


https://data.london.gov.uk/dataset?q=Population%20projects%20by%20ward%20and%20age%20
LONDON DATASTORE
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Datasets
Use the data tab to bring up the search function.
You know you want data broken down by age and ward, so be specific in your search.
Topics
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Show 1 more...
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Population projects by ward and age
2011 Census Demography
Census Information Scheme
Created 4 years ago
Reports and data on population growth and change
× 5
(20.05 MB)
population
change
growth
demography
Greater London
Local Authority
Ward
GLA Population Projections - Custom Age Tables
Updated 6 months ago
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This Excel based tool enables users to query the raw single year of age data so that any age range can easily be calculated without having to carry out often complex, and time consuming formulas that could also be open to human error. Each year the GLA demography team produce sets of population projections. The full raw data by single year of age (SYA) and gender are avai...
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population
wards
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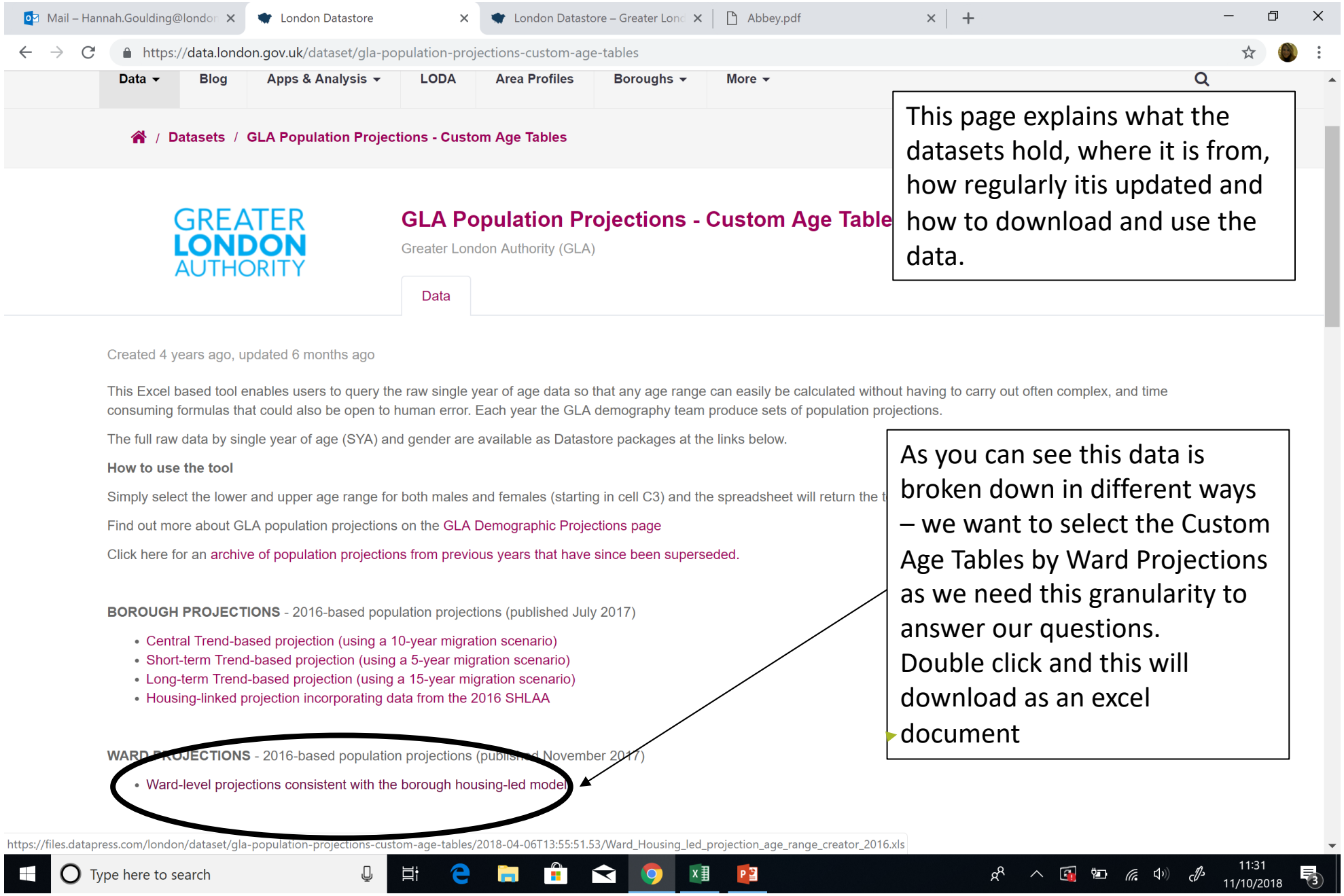
Birth and Death Rates, Ward
A number of related options come up. Use the blurb underneath to see which is most relevant to what you are looking for.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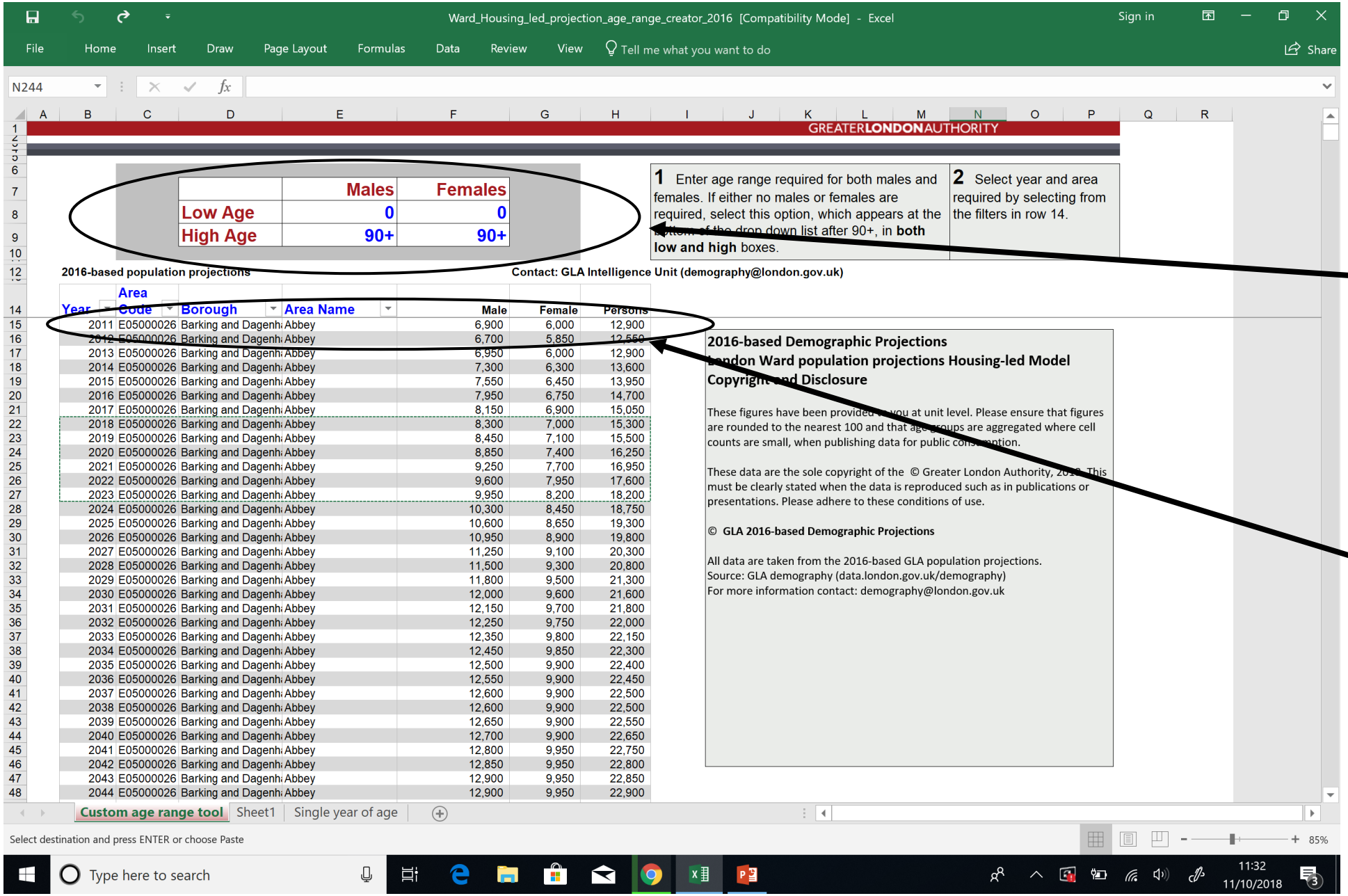
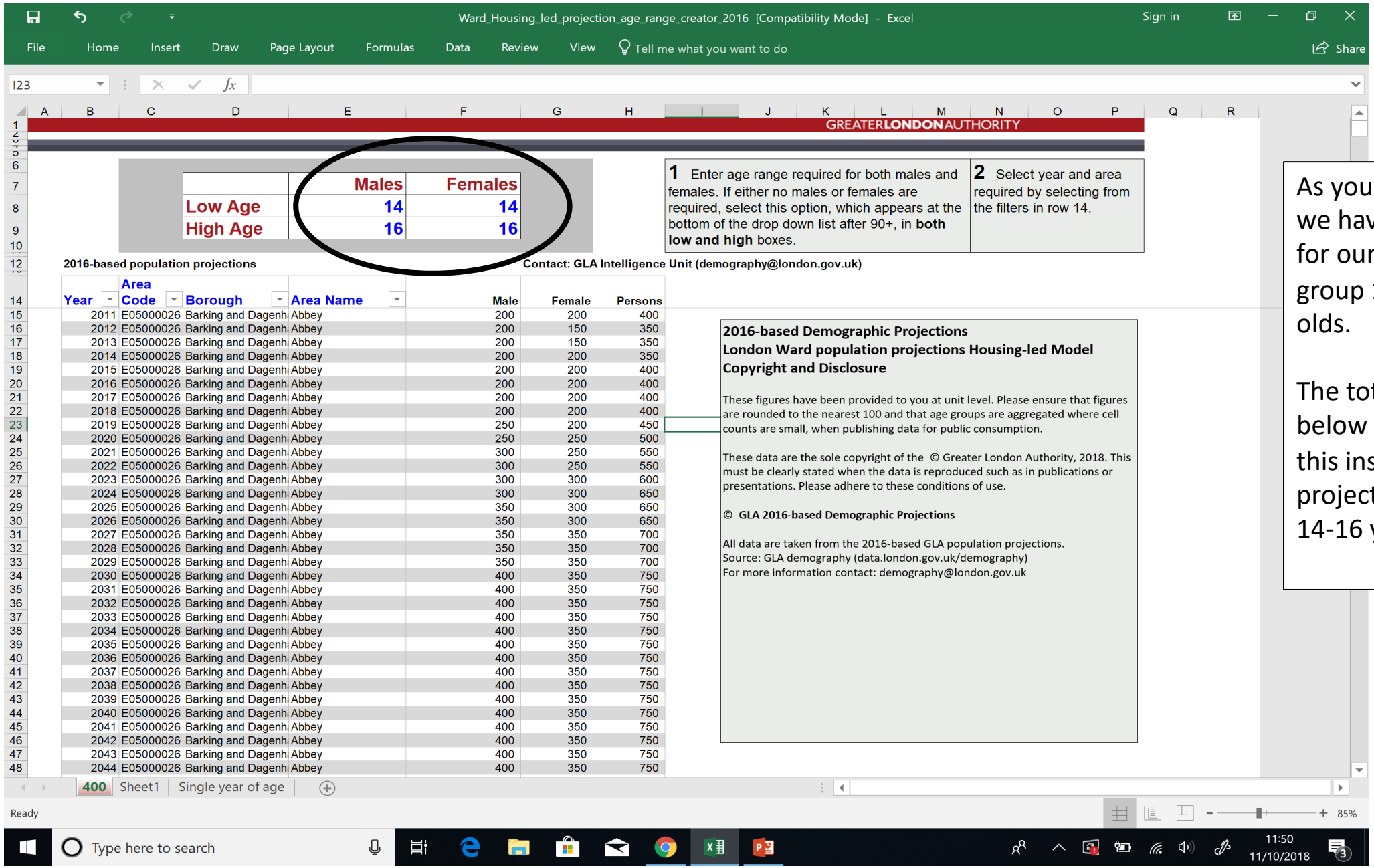
GREATER LONDON AUTHORITY
GLA Population Projections - Custom Age Table
Greater London Authority (GLA)
Data
Created 4 years ago, updated 6 months ago
This Excel based tool enables users to query the raw single year of age data so that any age range can easily be calculated without having to carry out often complex, and time consuming formulas that could also be open to human error. Each year the GLA demography team produce sets of population projections.
The full raw data by single year of age (SYA) and gender are available as Datastore packages at the links below.
How to use the tool
Simply select the lower and upper age range for both males and females (starting in cell C3) and the spreadsheet will return the t
Find out more about GLA population projections on the GLA Demographic Projections page
Click here for an archive of population projections from previous years that have since been superseded.
BOROUGH PROJECTIONS - 2016-based population projections (published July 2017)
Central Trend-based projection (using a 10-year migration scenario)
Short-term Trend-based projection (using a 5-year migration scenario)
Long-term Trend-based projection (using a 15-year migration scenario)
Housing-linked projection incorporating data from the 2016 SHLAA
WARD PROJECTIONS - 2016-based population projections (publish d November 2017)
Ward-level projections consistent with the borough housing-led model
https://files.datapress.com/london/dataset/gla-population-projections-custom-age-tables/2018-04-06T13:55:51.53/Ward_Housing_led_projection_age_range_creator_2016.xls
This page explains what the datasets hold, where it is from, how regularly itis updated and how to download and use the data.
As you can see this data is broken down in different ways – we want to select the Custom Age Tables by Ward Projections as we need this granularity to answer our questions.
Double click and this will download as an excel document
Type here to search
11:31
11/10/2018



On downloading, the dataset will look like this.

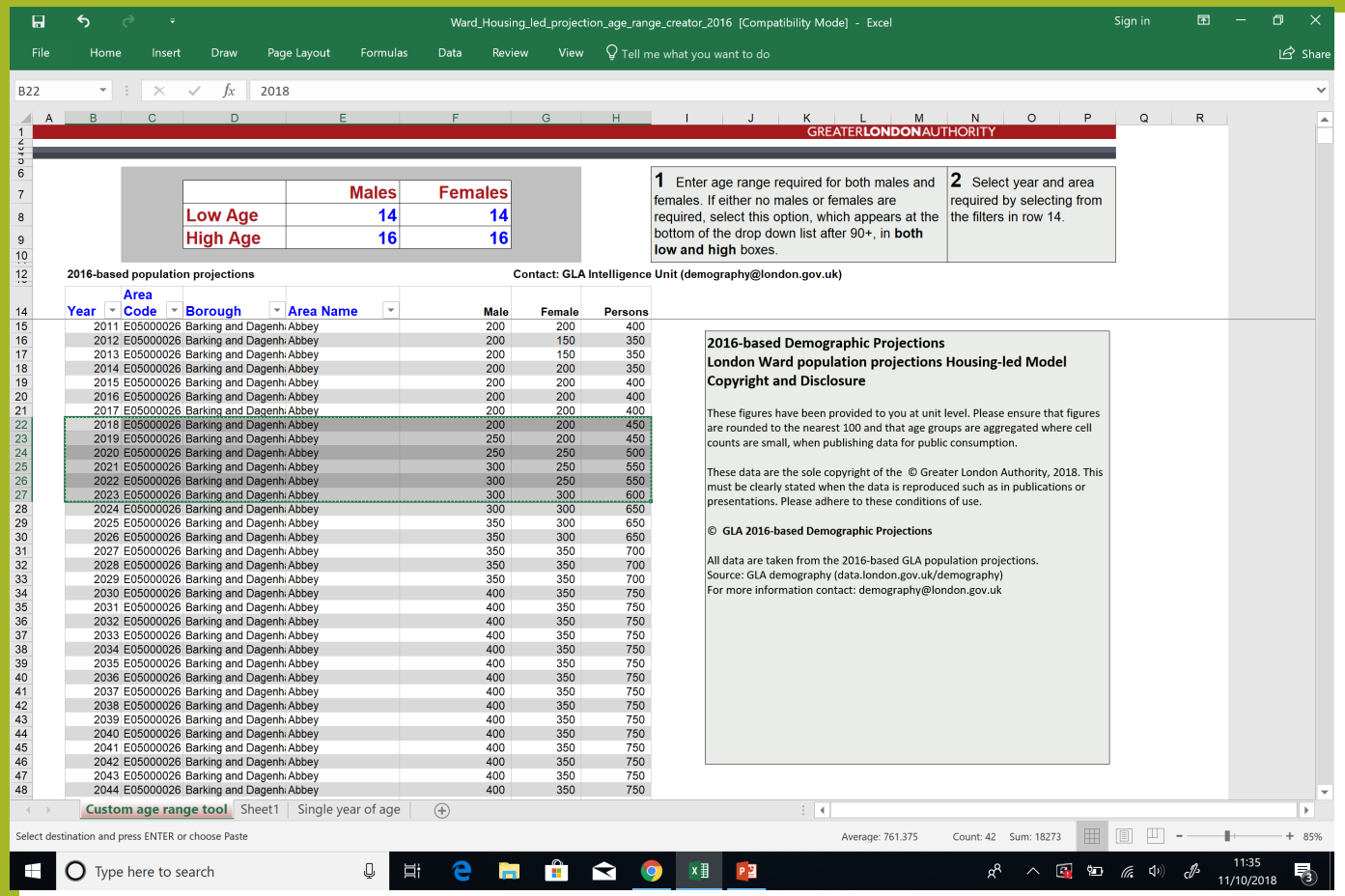
Here you can select the age ranges the data in the table is showing.

Here you can see the breakdown by year the projection is for up to 2050 for each ward, and projections for males, females and the total.

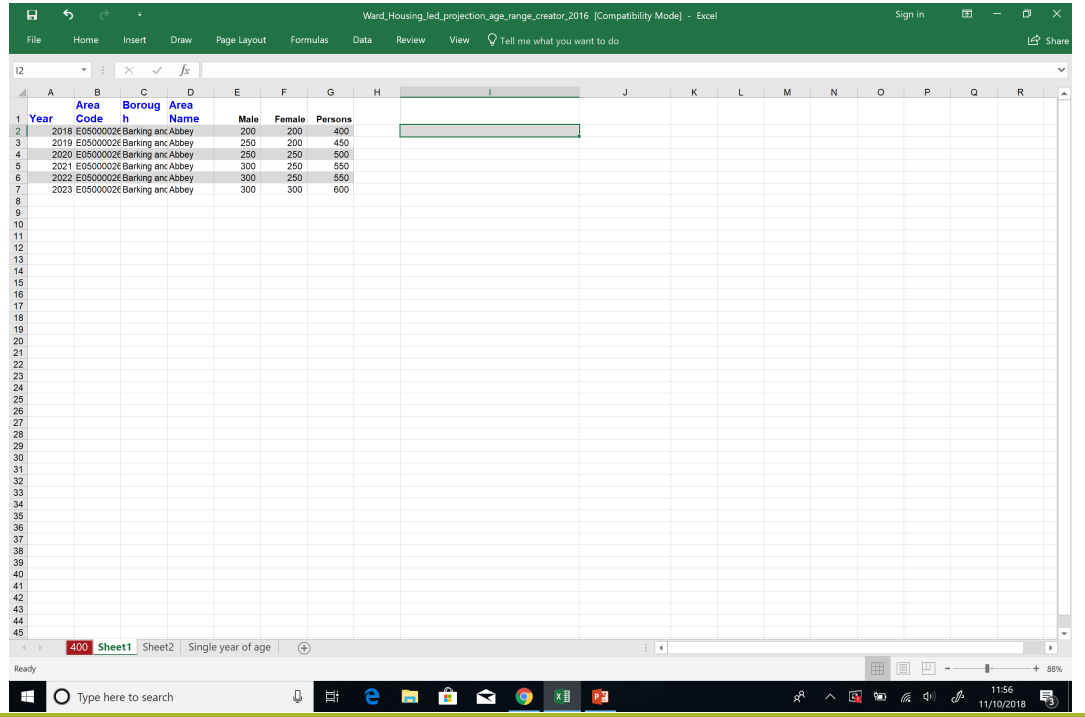


As you can see now we have set the range for our required Age group 14 – 16 year olds.

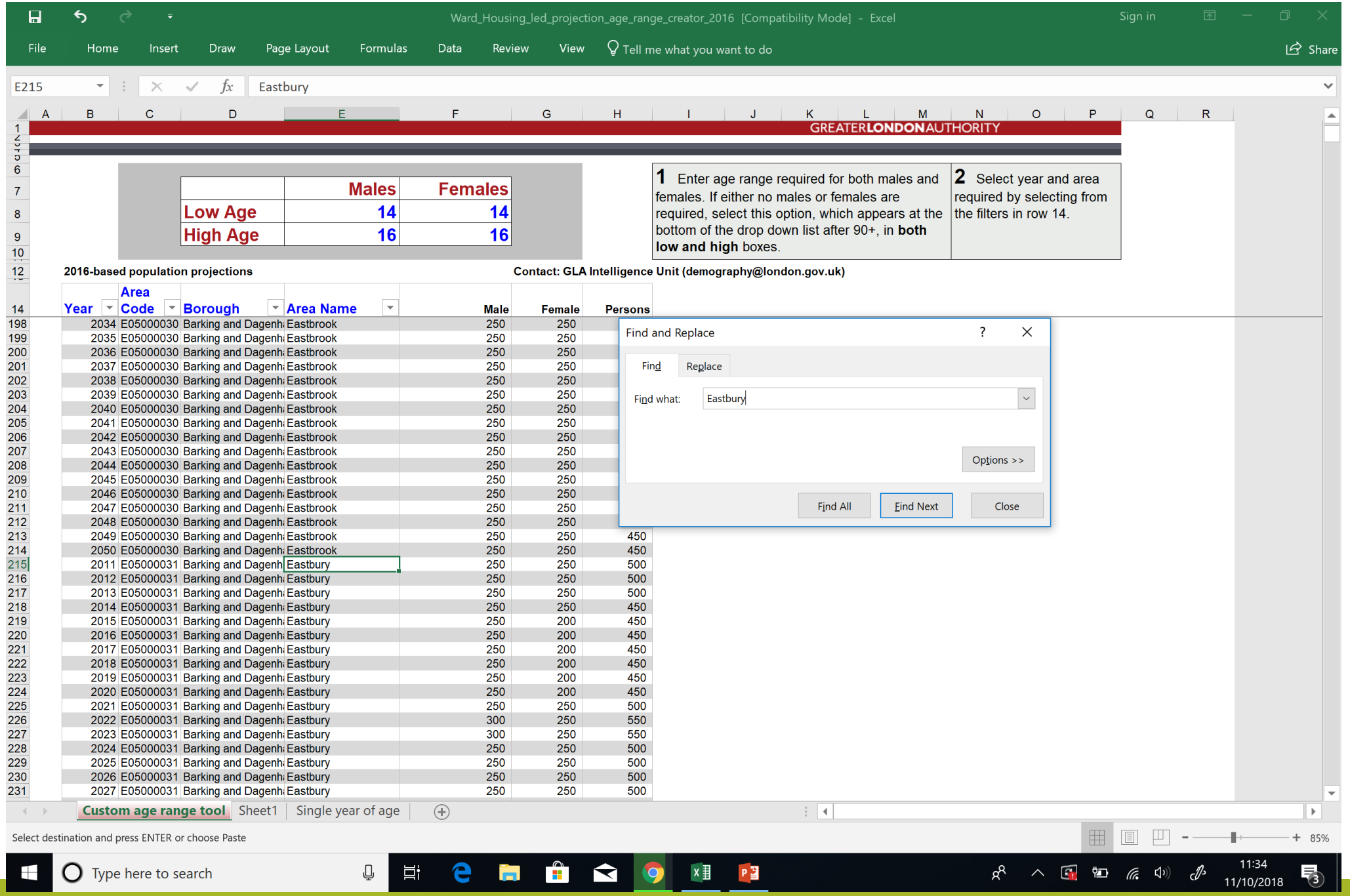
The totals in the table below now reflect this instruction, giving projections just for 14-16 year olds.



Now we can search for the ward and years we are interested in. As Abbey is at the top of the list, we can select 2018 – 2023, to cover the 5 year projection we need.



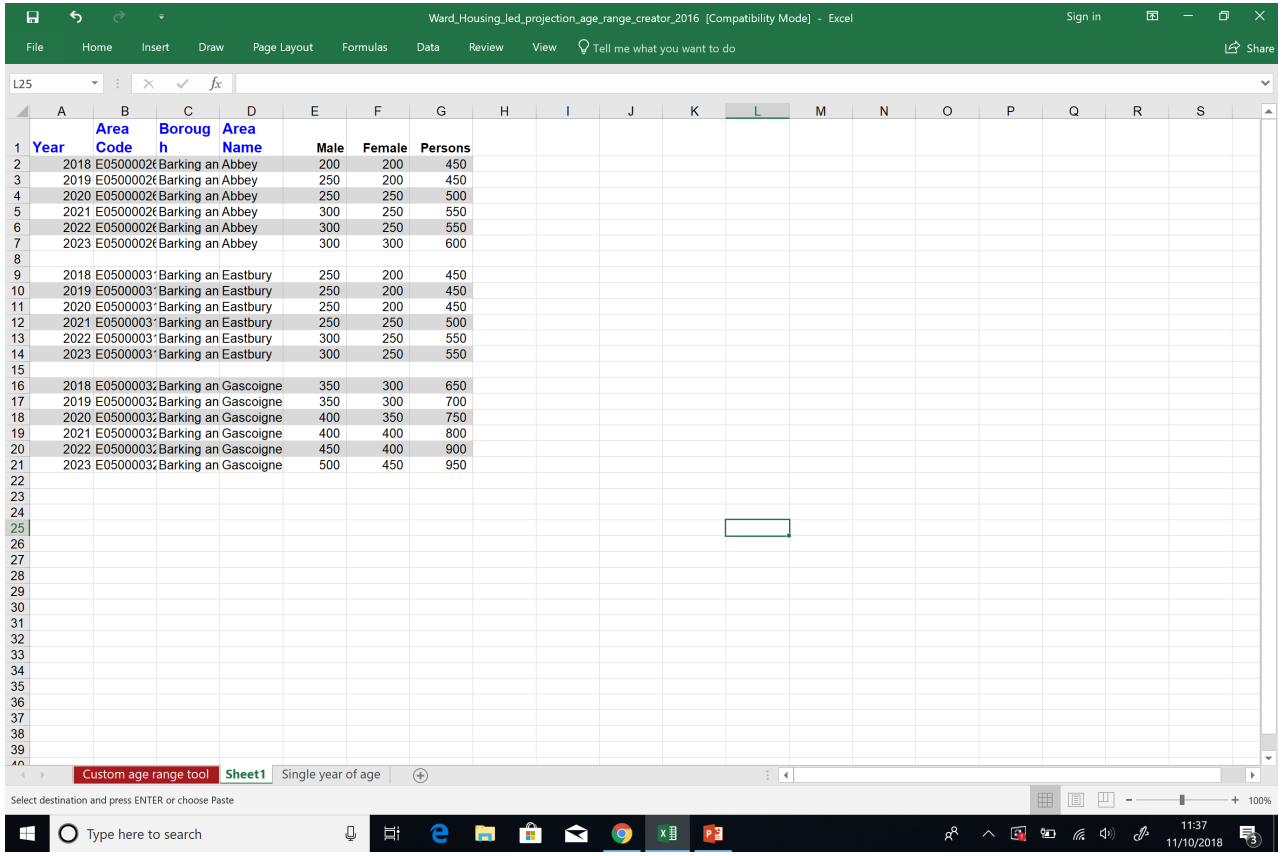
As this is a large dataset, I have created a new sheet where we can copy the relevant data for our analysis.



In order to find data for the two other wards, Eastbury and Gascoigne, you can use the Ctrl+F function.

Once found you can copy the same data for these two wards as you have for Abbey on to the analysis sheet.

Step 2 - Analyse the data



Year	Area Code	Borough	Area Name	Male	Female	Persons
2018	E0500002	Barking an	Abbey	200	200	450
2019	E0500002	Barking an	Abbey	250	200	450
2020	E0500002	Barking an	Abbey	250	250	500
2021	E0500002	Barking an	Abbey	300	250	550
2022	E0500002	Barking an	Abbey	300	250	550
2023	E0500002	Barking an	Abbey	300	300	600
2018	E0500003	Barking an	Eastbury	250	200	450
2019	E0500003	Barking an	Eastbury	250	200	450
2020	E0500003	Barking an	Eastbury	250	200	450
2021	E0500003	Barking an	Eastbury	250	250	500
2022	E0500003	Barking an	Eastbury	300	250	550
2023	E0500003	Barking an	Eastbury	300	250	550
2018	E0500003	Barking an	Gascoigne	350	300	650
2019	E0500003	Barking an	Gascoigne	350	300	700
2020	E0500003	Barking an	Gascoigne	400	350	750
2021	E0500003	Barking an	Gascoigne	400	400	800
2022	E0500003	Barking an	Gascoigne	450	400	900
2023	E0500003	Barking an	Gascoigne	500	450	950

Your sheet should now look like this – ready for analysis.

You will have 2018-2023 projects for 14-16 year olds in the three wards Abbey, Eastbury and Gascoign.

Data you already have and how to apply it to the projections.

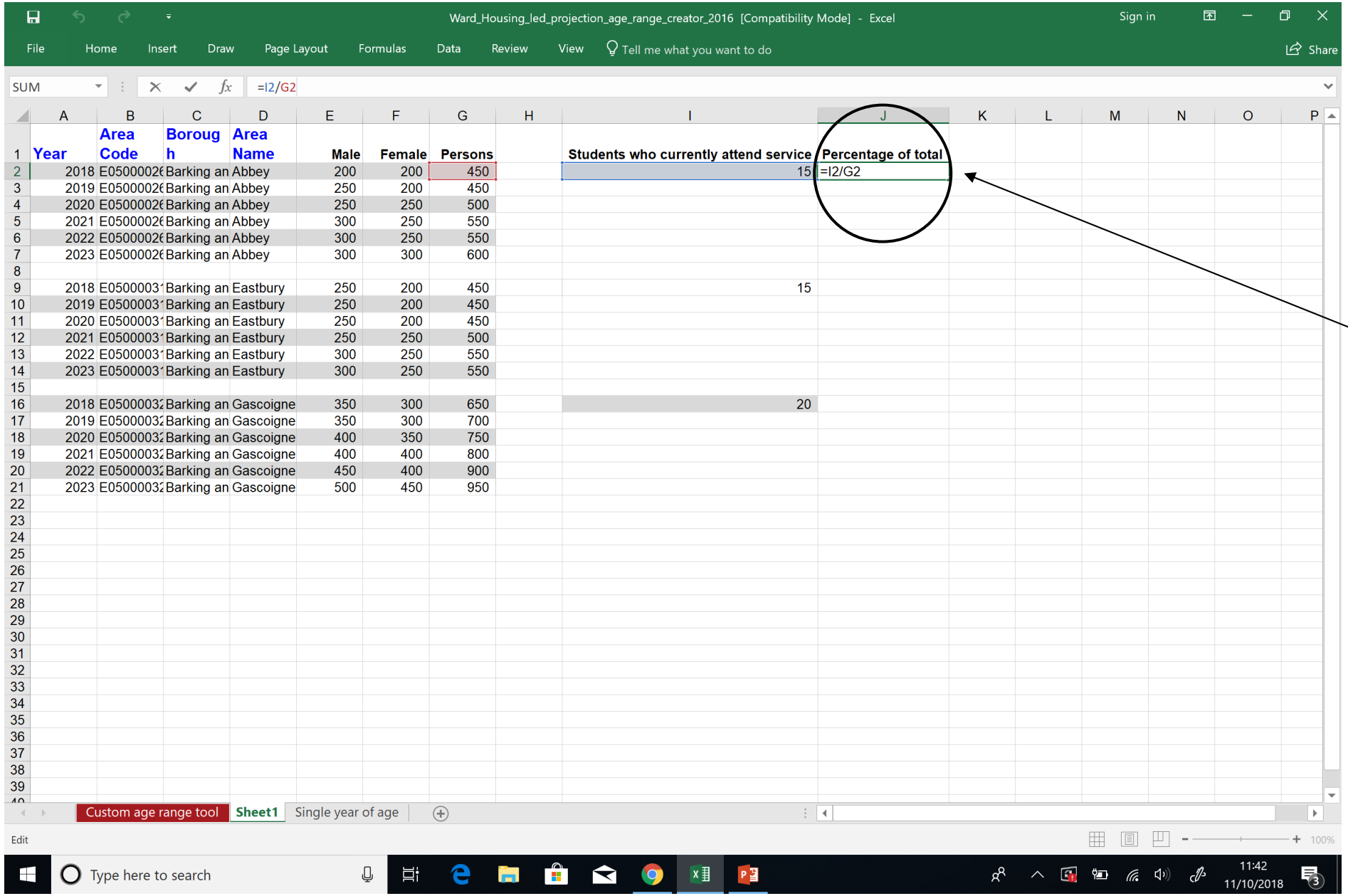
As set out at the beginning, you know that of the 50 students who currently attend your afterschool club;

- 15 students are from the Albion ward
- 15 are from the Eastbury ward
- 20 are from the Gascoigne ward

We can use what we already know to analyse the projections we have for the next 5 years.

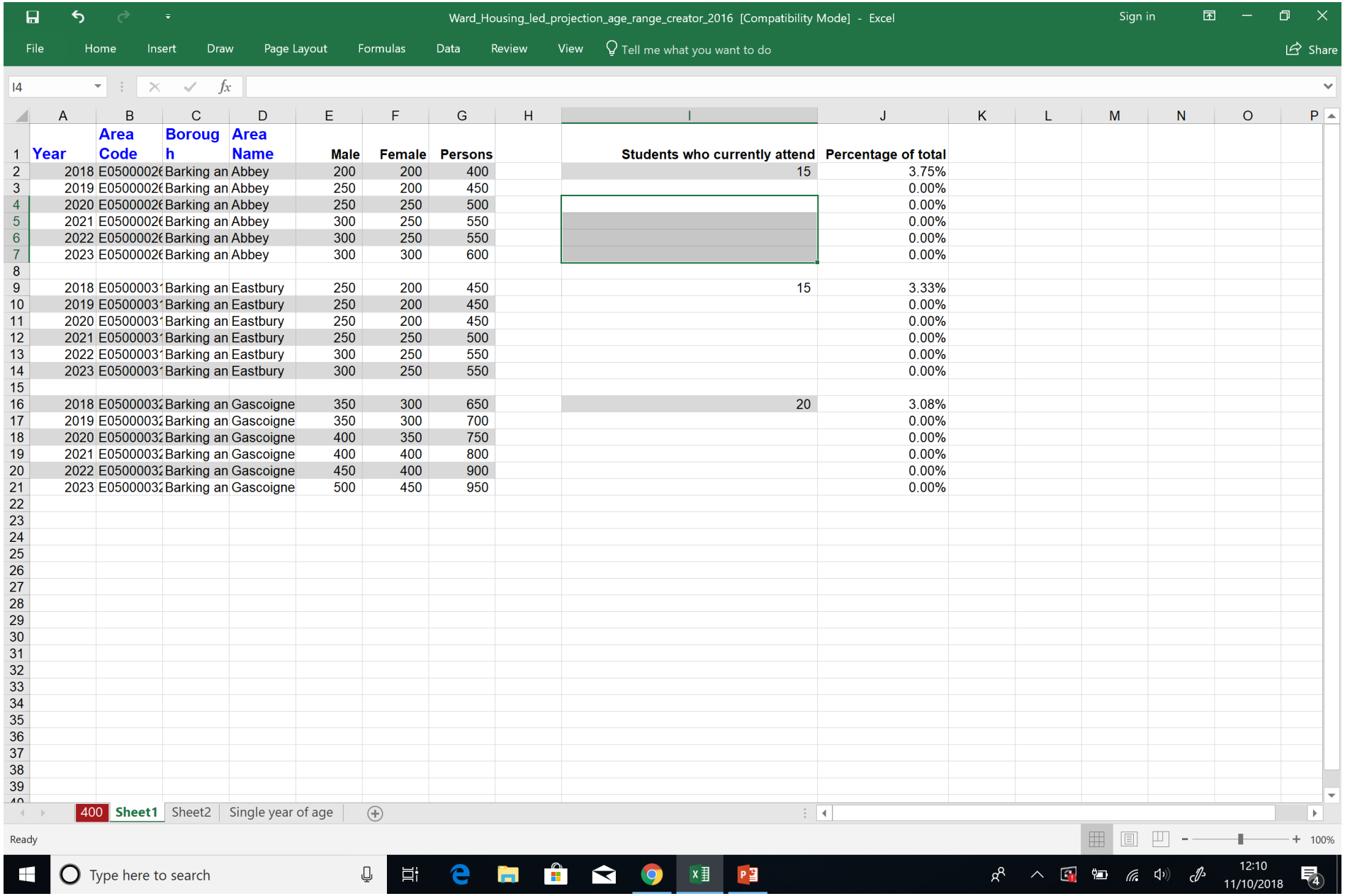
You can work out the percentage of 14-16 year olds you currently work with, from the total 14-16 year old population in each of the three wards and then apply this percentage to the projections in five years time to create an estimate of how many young people you could be working with by 2023.

It is important here to recognise the assumptions made in your analysis e.g. that the percentage of 14-16 year olds you are working with will stay the same. However as long as in presenting your findings you are clear that this is an estimation and set out your workings, it gives a solid indication of where your service may be in five years time.



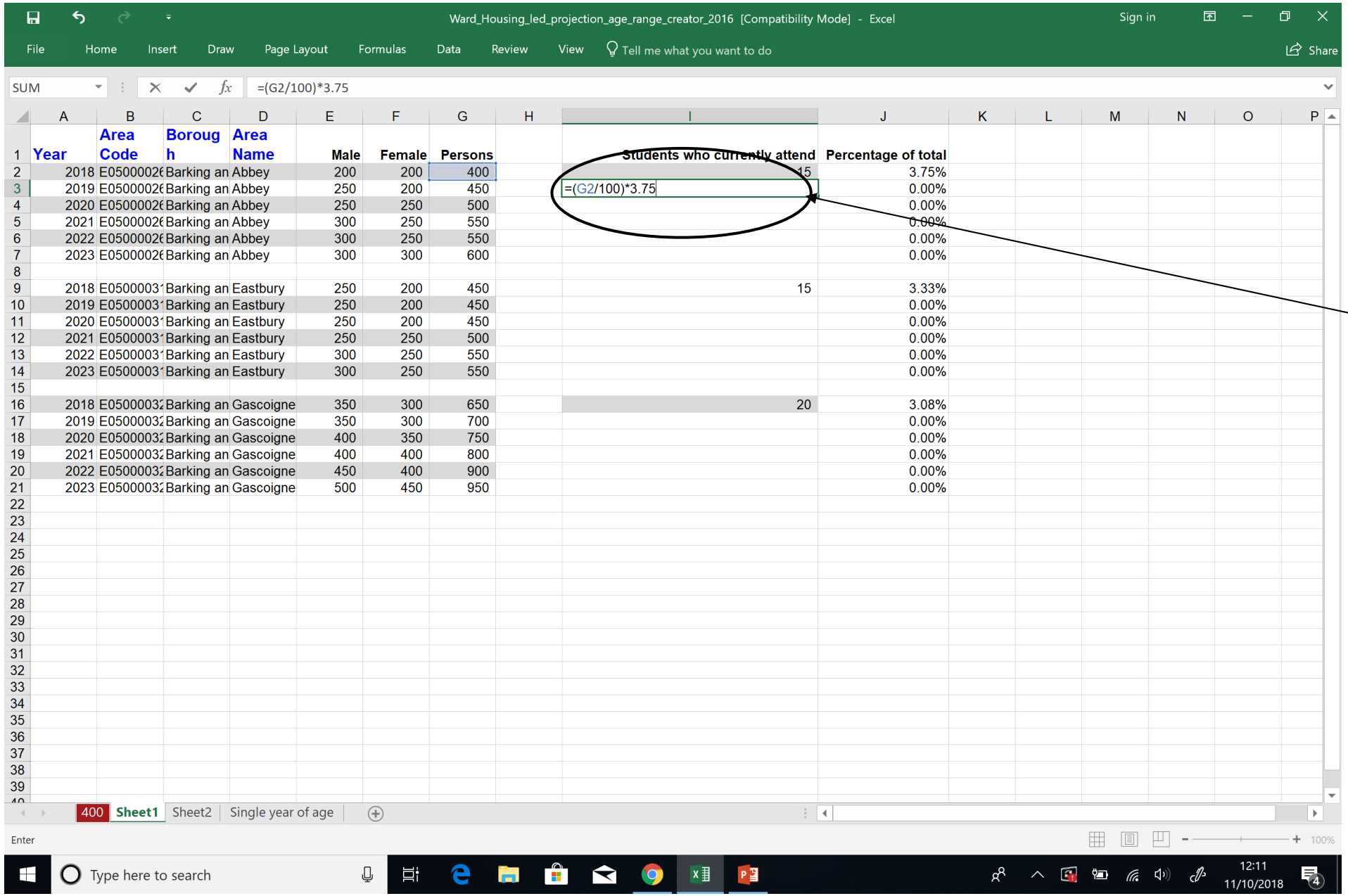
In order to work out the % of the total 14-16 year olds you currently work with, you divide the number you work with by the total number of persons in the borough, as shown in cell J2.

As you can see I have added in columns to include the data we already know about each area.



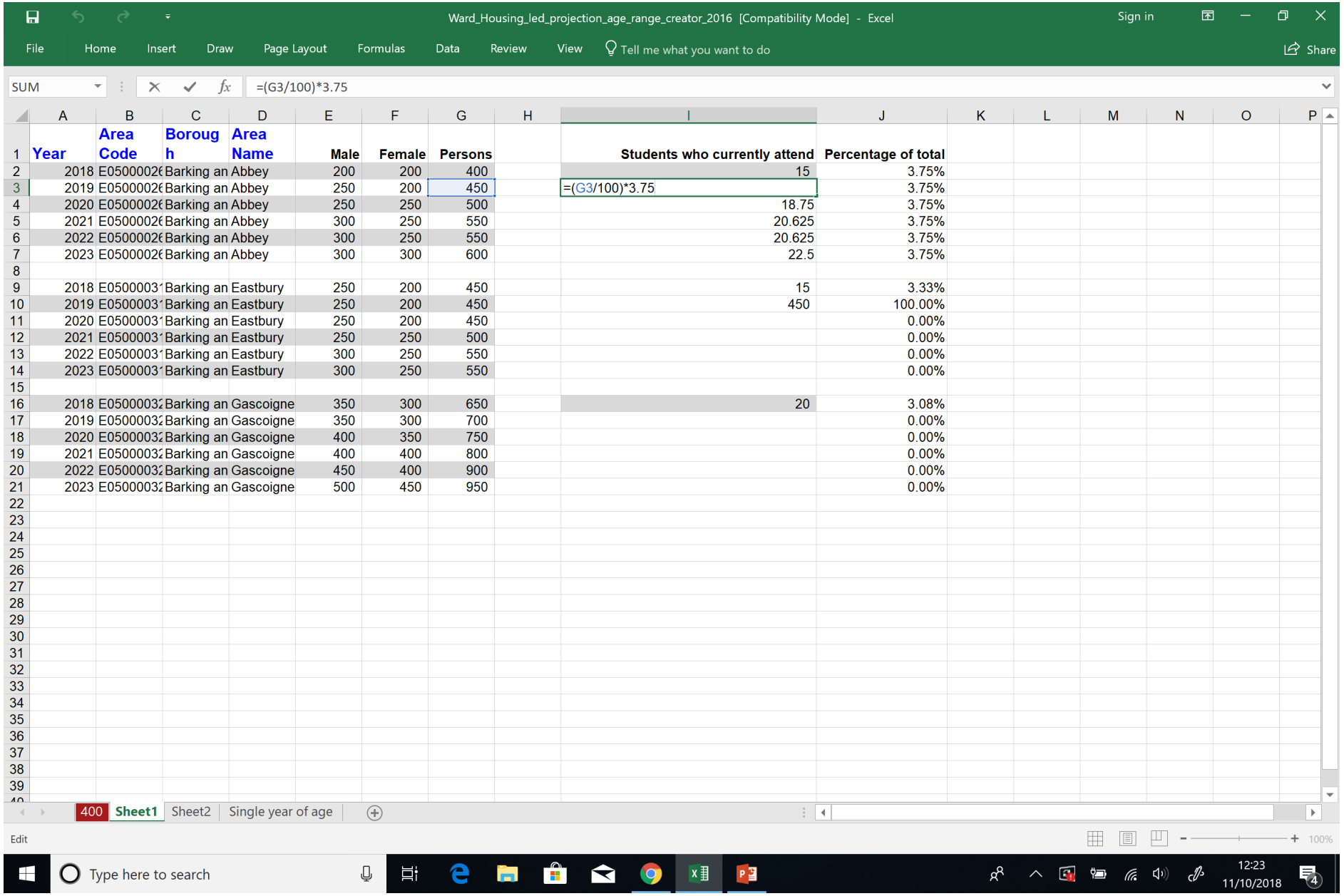
You can now copy the sum done in cell J2 down to the cells below to work out the % for the two other wards.

J9 and J16 now reflect the % of the total 14-16 in these two wards attend the afterschool club.



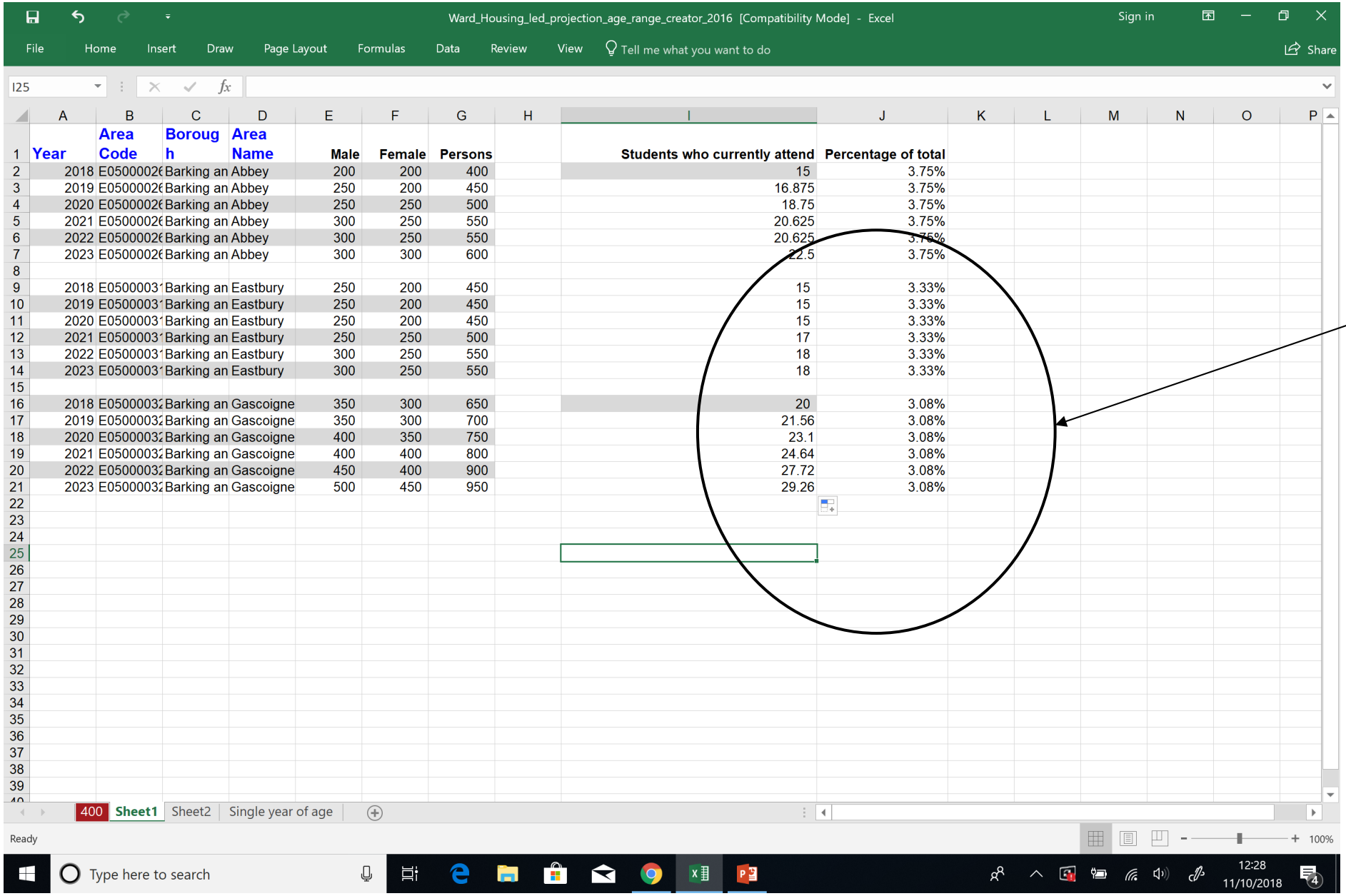
The next step is to apply this percentage to the population projections for the next 5 years.

To do this you need to, as shown in cell I3, divide the years total persons projection by 100 and then multiply that by 3.75%. Make sure you include the brackets or the formula will not work.



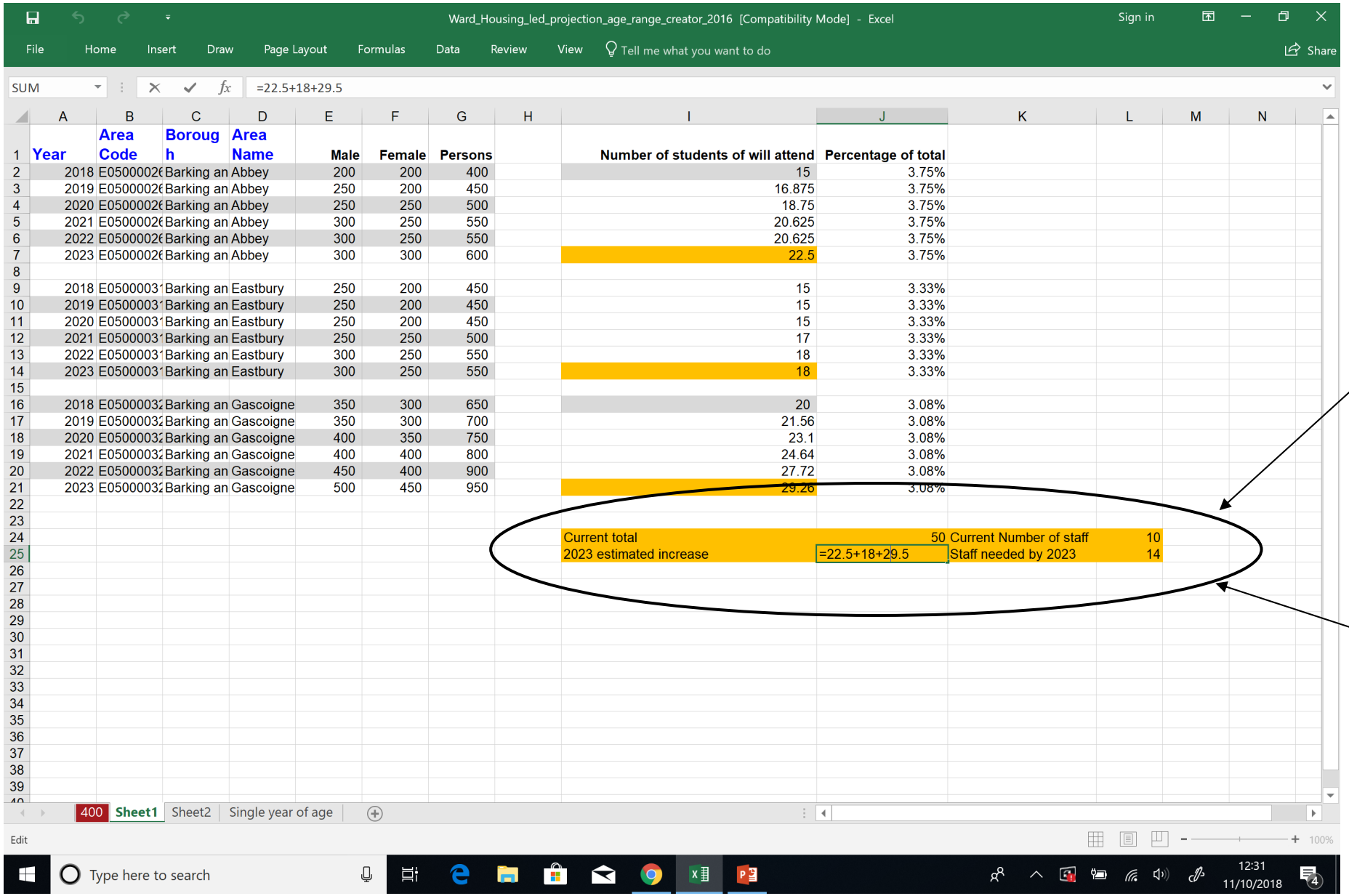
You can then copy this formula into the cells below, by dragging from the bottom right hand corner of cell I3.

This will calculate 3.75% of the total persons for the next 5 years.



Repeat this for the other two wards.

Make sure you change the percentage to reflect the differences in each ward. And copy for all five years.



Year	Area Code	Borough	Area Name	Male	Female	Persons	Number of students of will attend	Percentage of total
2018	E0500002	Barking an	Abbey	200	200	400	15	3.75%
2019	E0500002	Barking an	Abbey	250	200	450	16.875	3.75%
2020	E0500002	Barking an	Abbey	250	250	500	18.75	3.75%
2021	E0500002	Barking an	Abbey	300	250	550	20.625	3.75%
2022	E0500002	Barking an	Abbey	300	250	550	20.625	3.75%
2023	E0500002	Barking an	Abbey	300	300	600	22.5	3.75%
2018	E0500003	Barking an	Eastbury	250	200	450	15	3.33%
2019	E0500003	Barking an	Eastbury	250	200	450	15	3.33%
2020	E0500003	Barking an	Eastbury	250	200	450	15	3.33%
2021	E0500003	Barking an	Eastbury	250	250	500	17	3.33%
2022	E0500003	Barking an	Eastbury	300	250	550	18	3.33%
2023	E0500003	Barking an	Eastbury	300	250	550	18	3.33%
2018	E0500003	Barking an	Gascoigne	350	300	650	20	3.08%
2019	E0500003	Barking an	Gascoigne	350	300	700	21.56	3.08%
2020	E0500003	Barking an	Gascoigne	400	350	750	23.1	3.08%
2021	E0500003	Barking an	Gascoigne	400	400	800	24.64	3.08%
2022	E0500003	Barking an	Gascoigne	450	400	900	27.72	3.08%
2023	E0500003	Barking an	Gascoigne	500	450	950	29.26	3.08%

Now you have the estimated totals of 14-16 year olds who may attend your service in 2023.

Then through a simple addition sum, you can see the estimates predict an increase in the total of 20 students.

This means that you would need an additional 14 staff.