Knowledge Discovery Process: Selection & Sampling

MBI304- Data Mining & Data Analytics

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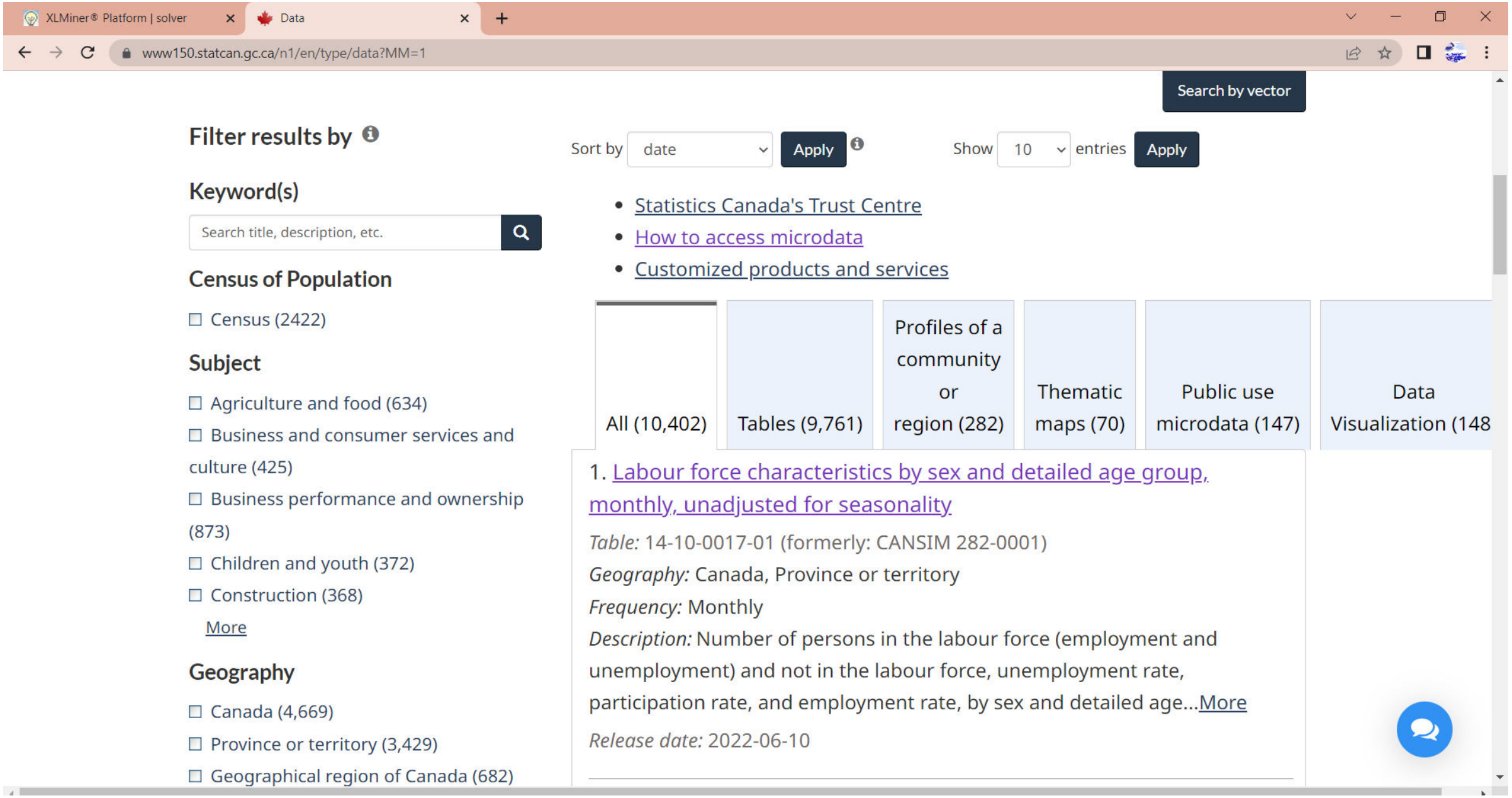
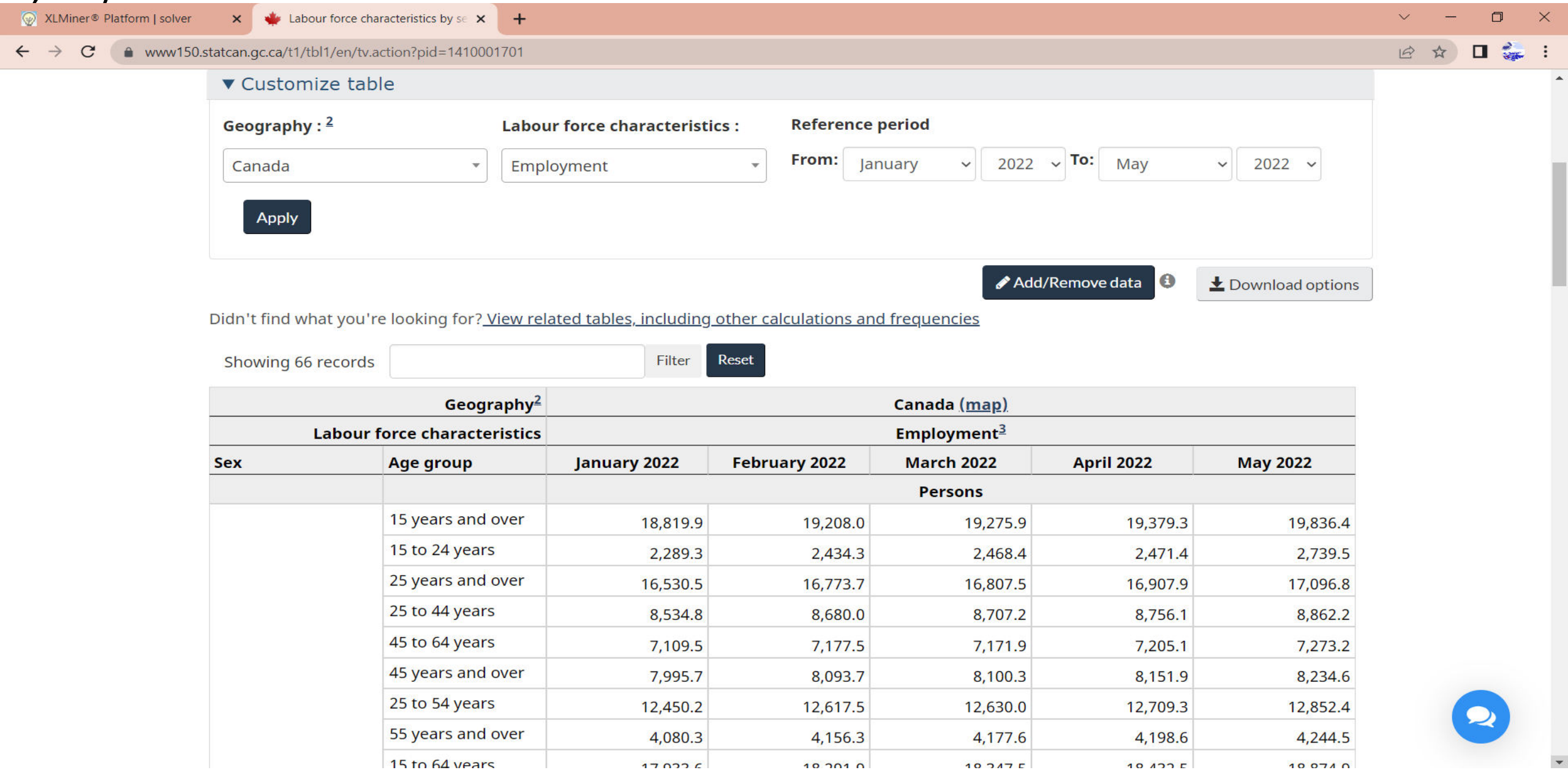
https://www150.statcan.gc.ca/n1/en/type/data?MM=1

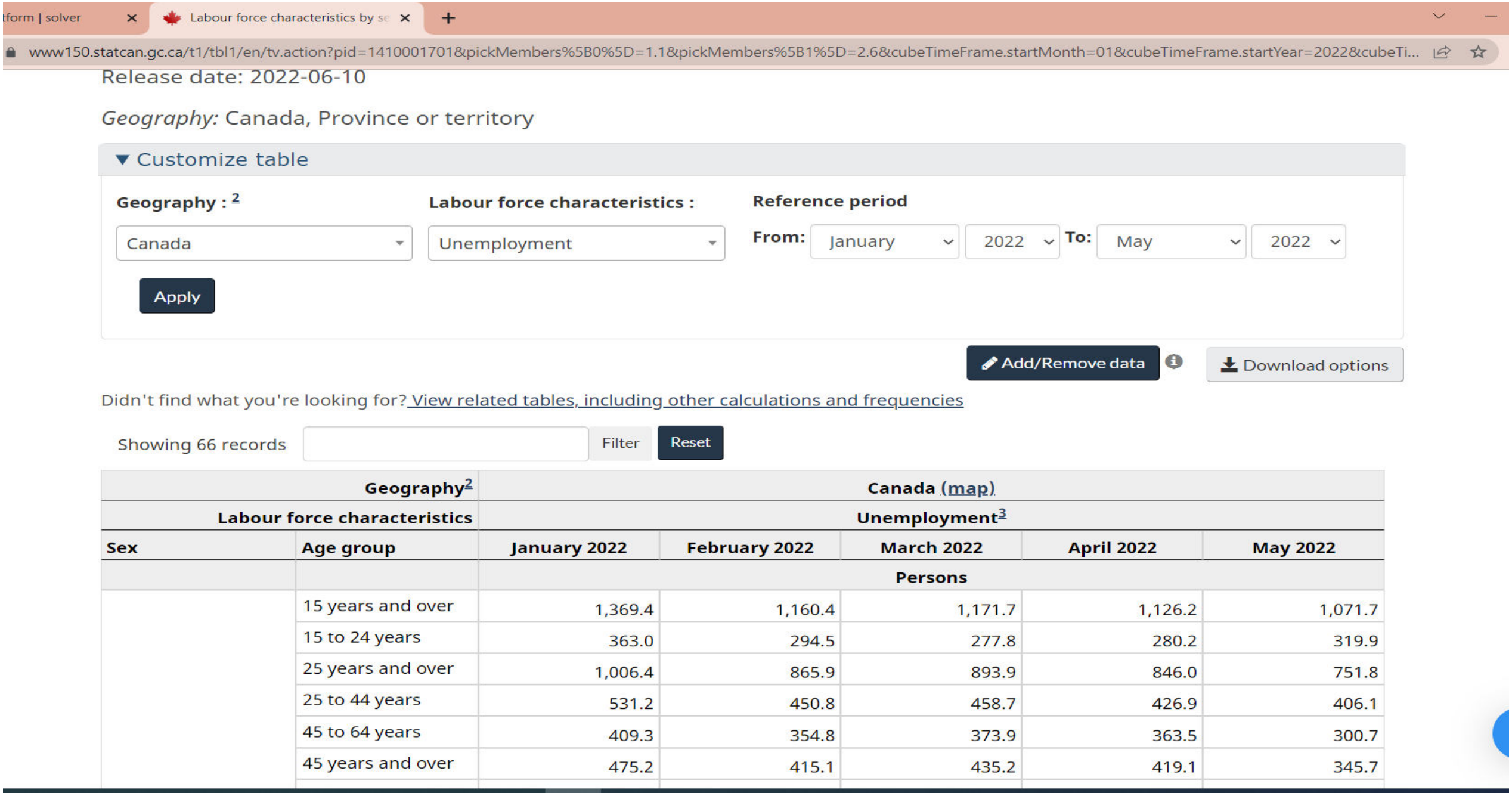


Labour force characteristics by sex and detailed age group, monthly, unadjusted for seasonality (x 1,000)1



Geography[2]		Canada (map)				
Labour force characteristics		Employment[3]				
Sex	Age group	January 2022	February 2022	March 2022	April 2022	May 2022
		Persons				
	15 years and over	18,819.9	19,208.0	19,275.9	19,379.3	19,836.4
	15 to 24 years	2,289.3	2,434.3	2,468.4	2,471.4	2,739.5
	25 years and over	16,530.5	16,773.7	16,807.5	16,907.9	17,096.8
	25 to 44 years	8,534.8	8,680.0	8,707.2	8,756.1	8,862.2
	45 to 64 years	7,109.5	7,177.5	7,171.9	7,205.1	7,273.2
	45 years and over	7,995.7	8,093.7	8,100.3	8,151.9	8,234.6
	25 to 54 years	12,450.2	12,617.5	12,630.0	12,709.3	12,852.4
	55 years and over	4,080.3	4,156.3	4,177.6	4,198.6	4,244.5
	15 to 64 years	17,033.6	18,291.0	18,347.5	18,433.5	18,874.0

Unemployment Data of Canada from Jan2022 to May 2022



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Release date: 2022-06-10

Geography: Canada, Province or territory

▼ Customize table

Geography : [2] Canada

Labour force characteristics : Unemployment

Reference period From: January 2022 To: May 2022

Apply

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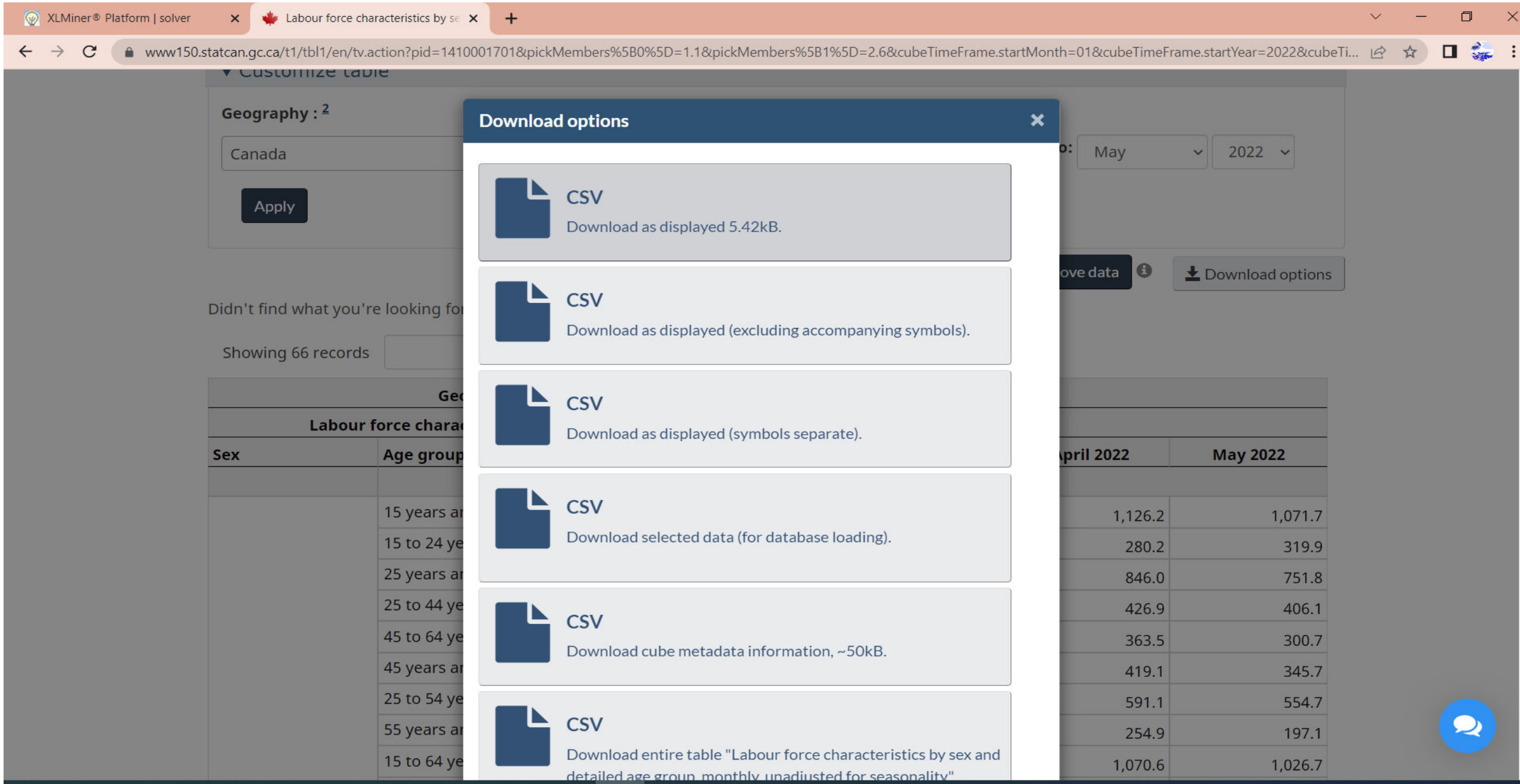
Showing 66 records | Filter | Reset

Geography[2]		Canada (map)				
Labour force characteristics		Unemployment[3]				
Sex	Age group	January 2022	February 2022	March 2022	April 2022	May 2022
		Persons				
	15 years and over	1,369.4	1,160.4	1,171.7	1,126.2	1,071.7
	15 to 24 years	363.0	294.5	277.8	280.2	319.9
	25 years and over	1,006.4	865.9	893.9	846.0	751.8
	25 to 44 years	531.2	450.8	458.7	426.9	406.1
	45 to 64 years	409.3	354.8	373.9	363.5	300.7
	45 years and over	475.2	415.1	435.2	419.1	345.7

Downloading data as displayed



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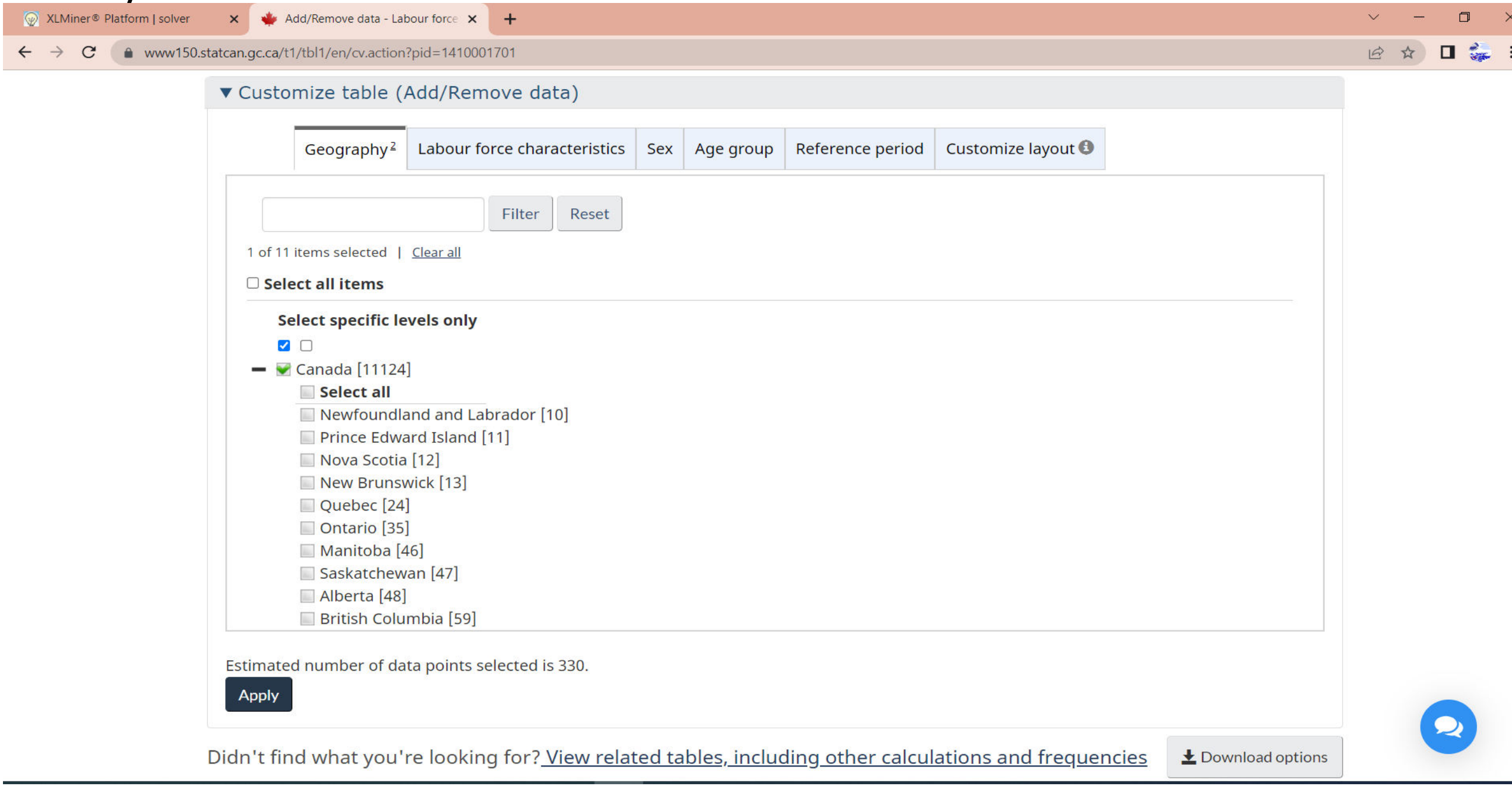

Employment Data Of British Columbia

XLMiner® Platform | solver | Add/Remove data - Labour force

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Alberta [48]

British Columbia [59]

Estimated number of data points selected is 660.

Apply

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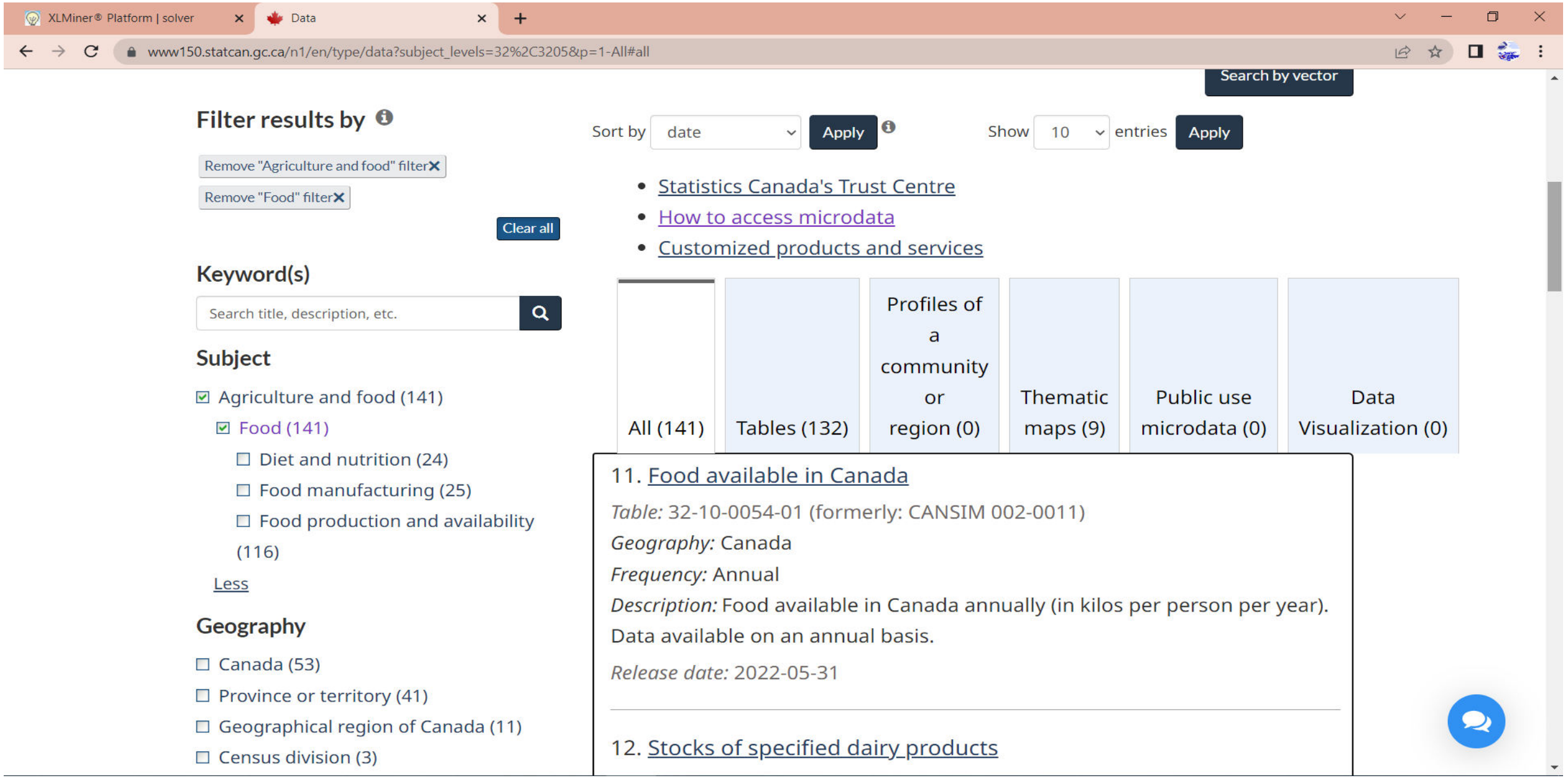
Showing 66 records

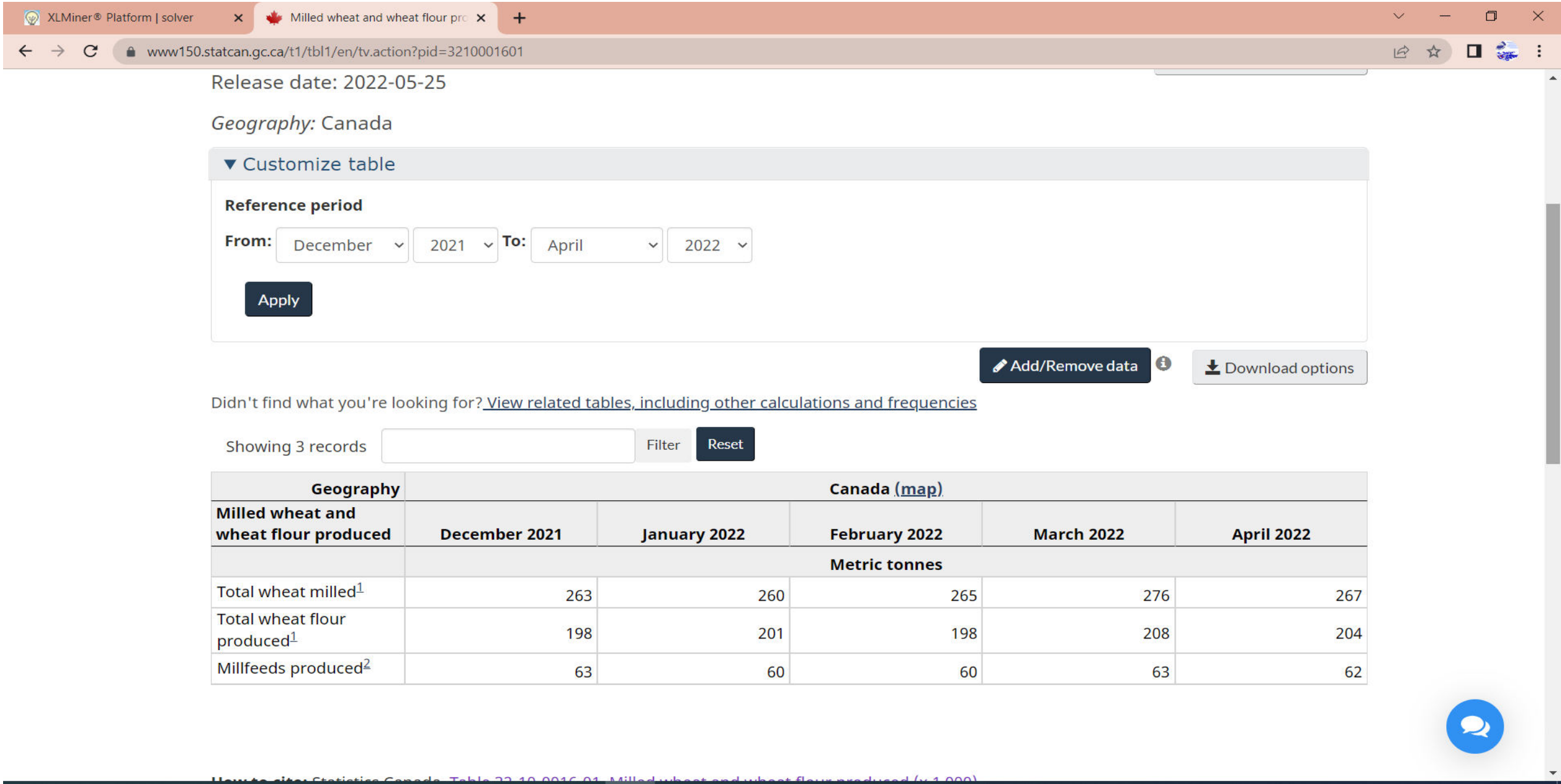
Filter Reset

Geography[2]		Canada (map)					British Columbia (map)				
Labour force characteristics		Employment[3]					Employment[3]				
Sex	Age group	January 2022	February 2022	March 2022	April 2022	May 2022	January 2022	February 2022	March 2022	April 2022	May 2022
		Persons									
	15 years and over	18,819.9	19,208.0	19,275.9	19,379.3	19,836.4	2,662.4	2,694.5	2,714.0	2,714.8	2,767.5
	15 to 24 years	2,289.3	2,434.3	2,468.4	2,471.4	2,739.5	339.6	349.7	354.5	350.6	374.6

Agriculture & Food Data



Milled wheat and wheat flour produced (x 1,000)



Release date: 2022-05-25

Geography: Canada

▼ Customize table

Reference period

From: December 2021 **To:** April 2022

Apply

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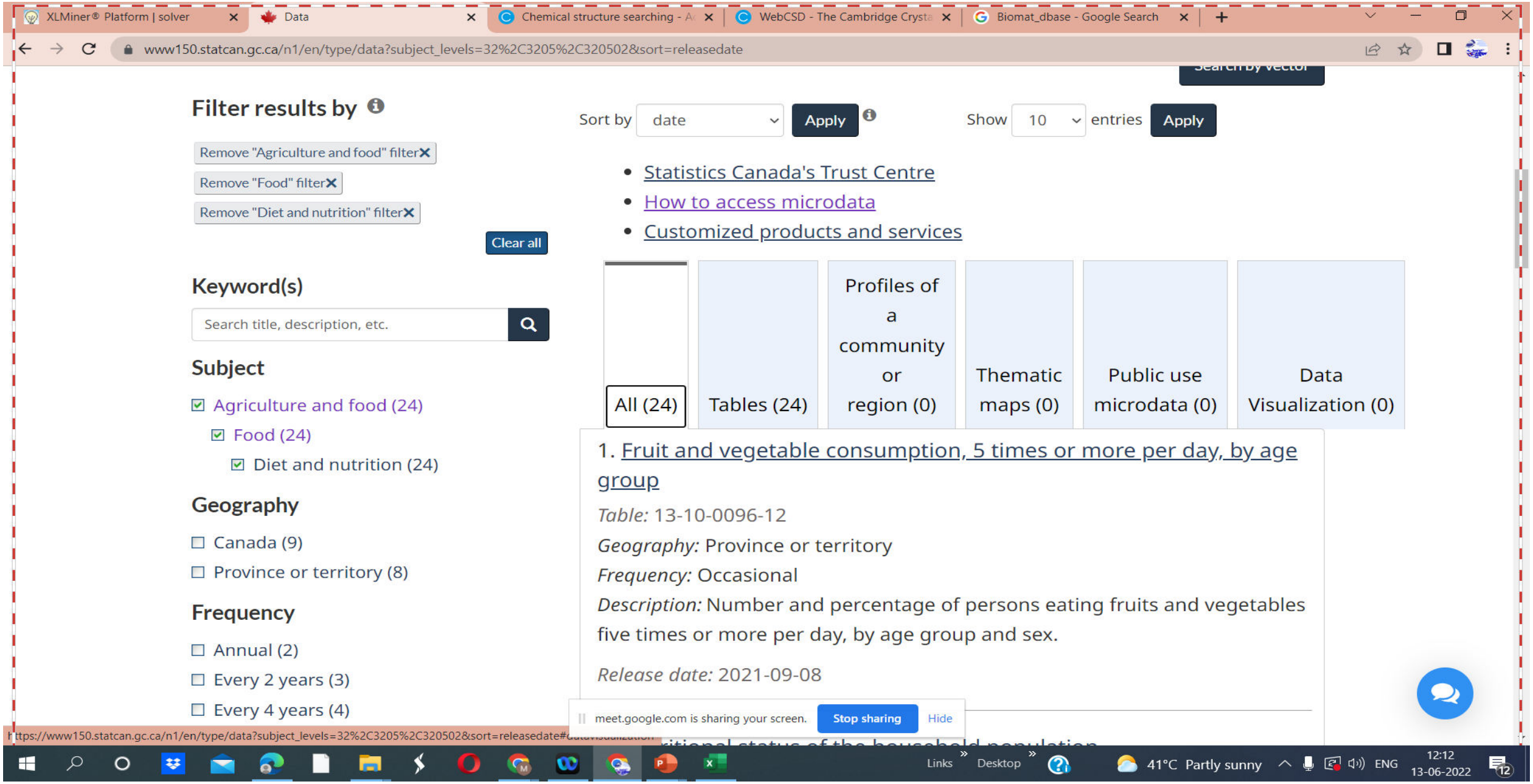
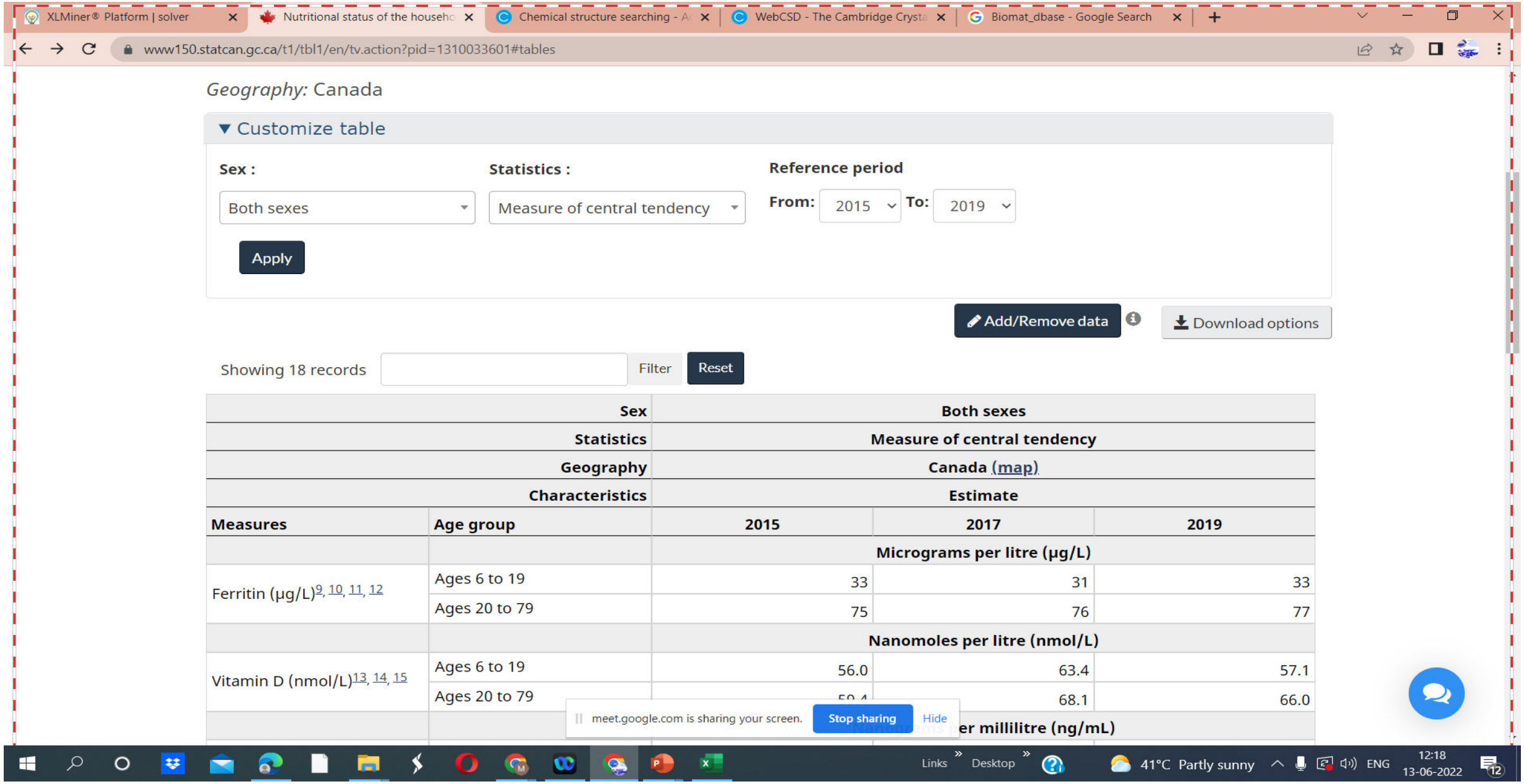
Showing 3 records | Filter | Reset

Geography	Canada (map)				
Milled wheat and wheat flour produced	**December 2021**	**January 2022**	**February 2022**	**March 2022**	**April 2022**
	Metric tonnes				
Total wheat milled[1]	263	260	265	276	267
Total wheat flour produced[1]	198	201	198	208	204
Millfeeds produced[2]	63	60	60	63	62

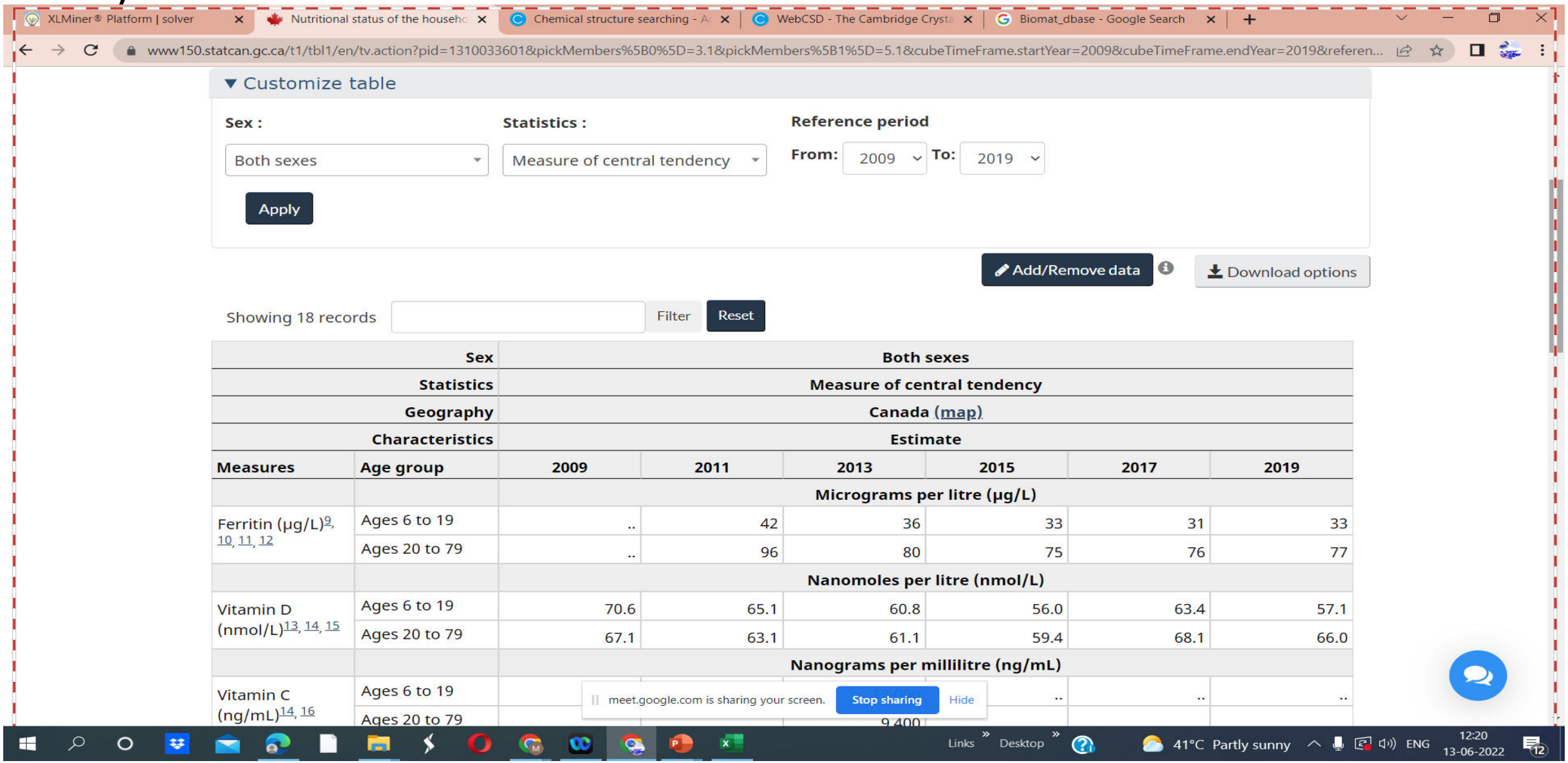
Data Filtration



Nutritional status of the household population(2015-2019)



Nutritional status of the household population (2009-2019)



Nutrition status (in different age group)

XLMiner® Platform | solver | Nutritional status of the household | Chemical structure searching - A | WebCSD - The Cambridge Crysta | Biomat_dbase - Google Search

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Measures	Age group	2017	2019
		Micrograms per litre (µg/L)	
Ferritin (µg/L)[9, 10, 11, 12]	Ages 6 to 19	31	33
	Ages 20 to 79	76	77
		Nanomoles per litre (nmol/L)	
Vitamin D (nmol/L)[13, 14, 15]	Ages 6 to 19	63.4	57.1
	Ages 20 to 79	68.1	66.0
		Nanograms per millilitre (ng/mL)	
Vitamin C (ng/mL)[14, 16]	Ages 6 to 19	..	..
	Ages 20 to 79	..	..
		Nanomoles per litre (nmol/L)	
Red blood cell folate (nmol/L)[14, 17, 18]	Ages 6 to 19	1,352	1,533
	Ages 20 to 79	1,407	1,543
		Picomoles per litre	
Vitamin B12 (pmol/L)[10, 19]	Ages 6 to 19	360	387
	Ages 20 to 79	299	306
Parathyroid hormone (pmol/L)[10, 20, 21, 22]	Ages 6 to 19	3.5	3.4
	Ages 20 to 79	4.1	4.1
		Millimoles per litre	
Creatinine (urine) (mmol/L)[10, 23]	Ages 6 to 19	9.9	9.2
	Ages 20 to 79	8.5	7.9
Potassium (urine) (mmol/L)[10, 24]	Ages 6 to 19	61	56
	Ages 20 to	47	46

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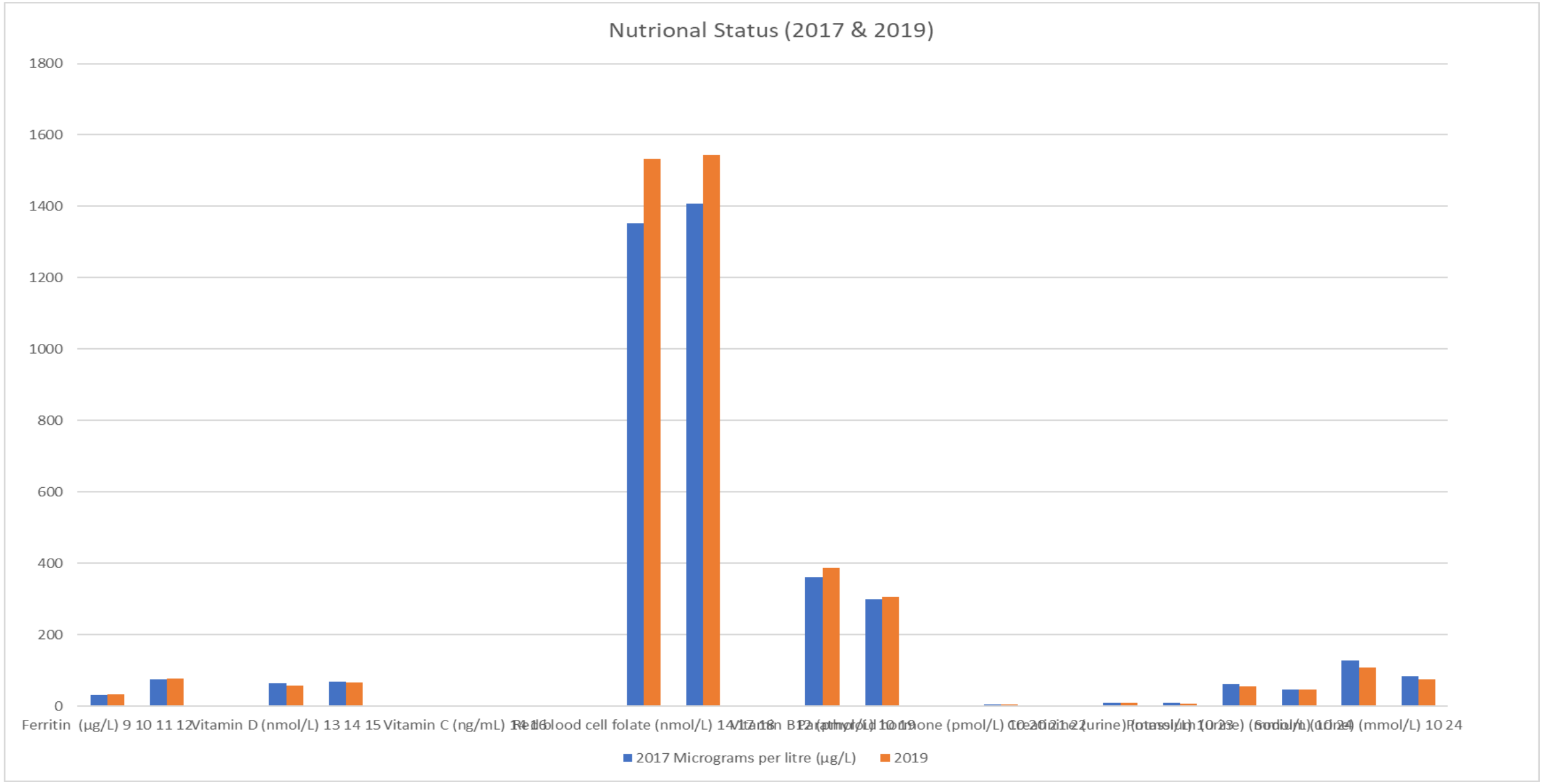
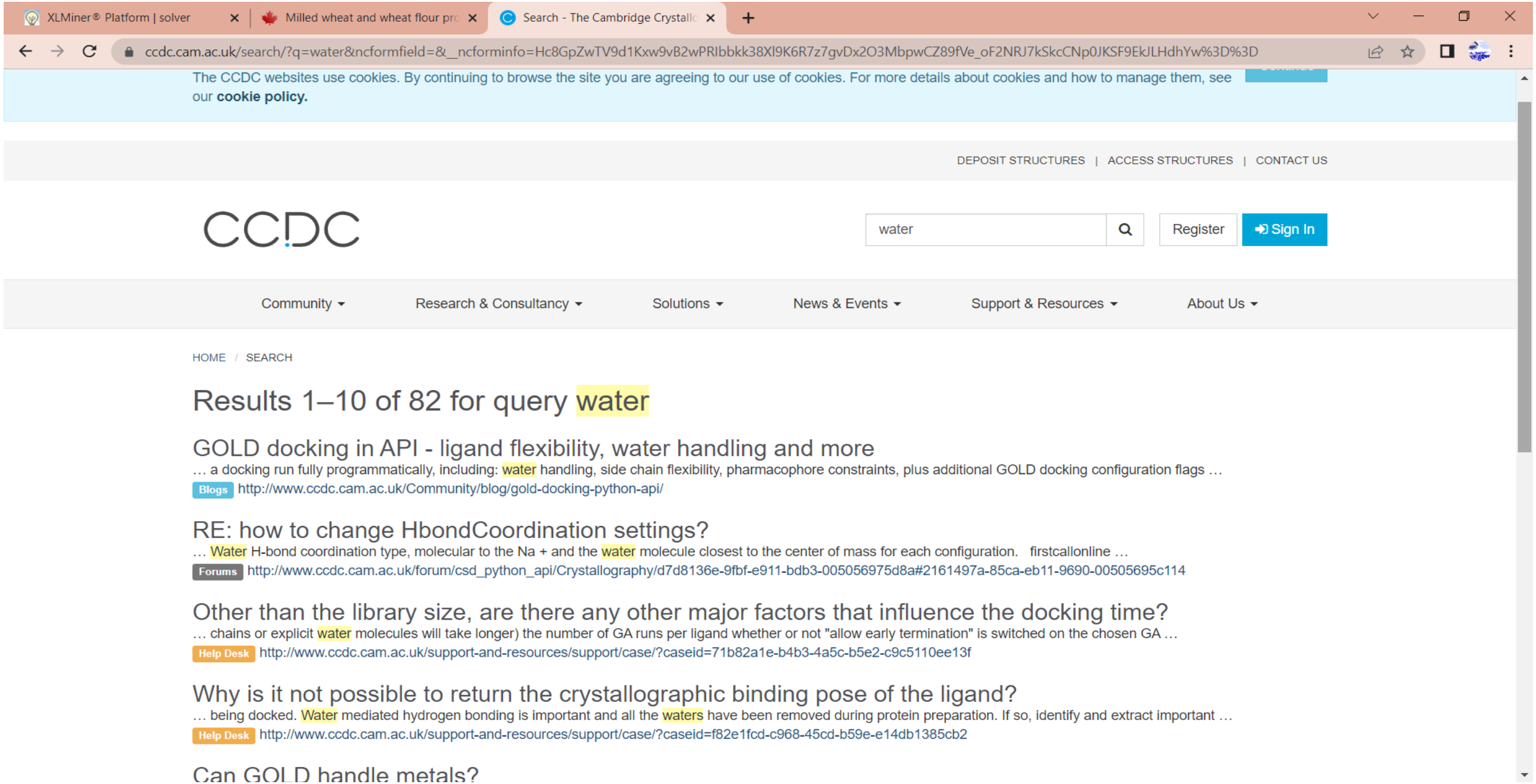
Nutritional status of the household population (2017-2019)



Searching in CSD database



GOLD docking in API - ligand flexibility, water handling and more

Ilenia Giangreco – July 15, 2021

More advanced settings are now available when docking with GOLD programmatically through the API. Here's what has changed in the 2021.1 release.

Docking with GOLD - genetically optimised ligand docking - is well validated and trusted across academia and industry. The ability to perform docking programmatically through the API further opens this functionality for computational chemists to use GOLD docking in workflows. Previously some advanced features in GOLD were only accessible in the graphical user interface Hermes, but in this release they are now accessible in the API.

You can now configure a docking run fully programmatically, including: water handling, side chain flexibility, pharmacophore constraints, plus additional GOLD docking configuration flags.

Which parameters can be controlled in the GOLD API?

It is now possible to specify water molecules that are important to ligand binding.

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References

- https://www150.statcan.gc.ca/n1/en/type/data?MM=1
- CSD database
- https://www.ccdc.cam.ac.uk/solutions/csd-core/components/webcsd/