

# PART I: Data Scraping

Form the following link:

<https://www.aduana.cl/exportacion-por-pais-y-codigo-arancelario/aduana/2018-12-14/101258.html>

You will find several publications. We are interested in these files:

La información estadística que se presenta a continuación considera los datos de las operaciones de exportación, clasificadas por país y código arancelario, entendiéndose por aquellas las que corresponden a la salida legal de mercancía nacional o nacionalizada, para su uso o consumo en el exterior.

## En monto FOB (US\$)

Información anual desde año 2002 al 2022. ([Descargar acá](#))

Información mensual Año [2024](#) / [2023](#) / [2022](#) / [2021](#) / [2020](#) / [2019](#) / [2018](#) / [2017](#) / [2016](#) / [2015](#) / [2014](#)

## En peso (kg)

Información anual desde año 2002 al 2022. ([Descargar acá](#))

Información mensual Año [2024](#) / [2023](#) / [2022](#) / [2021](#) / [2020](#) / [2019](#) / [2018](#) / [2017](#) / [2016](#) / [2015](#) / [2014](#)

## Artículos relacionados

Try to run the script (dynamically) and append the results of each year in order to have an Excel file that has all the values.

We are only interested in codes starting with “1001” or “1005”. Example:

EXPORTACIONES PAÍS Y CÓDIGO ARANCELARIO						
Peso en Kilos Brutos		Mes				Acumulado a Abril - 2024
País /	Código Arancelario	Enero - 2024	Febrero - 2024	Marzo - 2024	Abril - 2024	
✓	08134049	14,342.0	-	-	-	14,342.0
✓	08134051	2,604.8	-	-	-	2,604.8
✓	08134059	1,744.1	-	-	-	1,744.1
✓	08134099	15,965.5	-	-	-	15,965.5
✓	09042100	-	140.0	-	-	140.0
✓	10031000	-	-	83.9	-	83.9
✓	10039000	-	381.2	-	-	381.2
✓	10041000	-	-	172,700.0	100,400.0	273,100.0
✓	10051010	-	-	306,609.0	632,492.0	939,101.0
✓	10051090	5.5	2.0	10,282.2	31,597.4	41,887.0
✓	10059000	32.7	96.8	1,380.5	1,562.0	3,071.9
✓	10071000	-	-	-	29.1	29.1
✓	11042300	1.0	-	314.9	95.0	410.9
✓	11063019	-	6.0	-	-	6.0
✓	11063090	-	1,315.0	-	-	1,315.0
✓	12011000	-	-	752.1	-	752.1

Technical Test - DNEXT

Open the Excel file and retrieve the following information: (use python to retrieve the data and not manually)

EXPORTACIONES PAÍS Y CÓDIGO ARANCELARIO					
Peso en Kilos Brutos	Mes				Acumulado a Abril - 2024
País / Código Arancelario	Enero - 2024	Febrero - 2024	Marzo - 2024	Abril - 2024	Date
Afghanistan	-	-	-	-	-
00259900	-	-	-	-	-
Albania	-	-	-	-	-
00259900	-	-	-	-	-
Alemania	35,731,272.3	52,962,068.8	26,291,465.6	39,103,449.7	154,088,256.4
00198900	-	79.0	-	-	79.0
00250100	-	-	-	-	-
00259900	-	-	-	-	-
00309900	92.3	12.0	264.0	35.0	403.3
00340000	-	224.0	-	-	224.0
01064112	-	-	3.0	-	3.0
02013010	-	-	65.0	161.0	226.0
02013020	-	-	390.0	625.0	1,015.0
02013030	-	-	146.0	54.0	200.0
02013060	-	-	21.0	44.0	65.0
02013070	-	-	47.0	42.0	89.0
02013090	-	-	384.0	401.0	785.0
02023010	-	-	11.0	-	11.0
02023030	-	-	-	68.0	68.0
02032932	381,967.2	160,853.7	202,083.6	221,062.8	965,967.2
02032933	-	-	22,858.0	-	22,858.0
02032939	-	-	-	21,697.3	21,697.3
02064990	11,580.4	21,194.0	-	11,074.0	43,848.4
03021410	-	-	-	710.0	710.0

The Country, the available codes (only interested in codes starting with 1001 and 1005), the dates, and the values.

We are not interested in the cumulative column (last column), nor the total value per country.

PS: Codes starting with 1001 are categories of wheat and those starting with 1005 are categories of corn.

Your final output needs to have the following structure:

Code	Country	Date	Value
10051090	Italia	2024-03-01 00:00:00	99.5
10059000	España	2023-04-01 00:00:00	9742.3
10051010	Austria	2023-07-01 00:00:00	97.78
10051010	México	2023-07-01 00:00:00	962736.01
10059000	Alemania	2024-02-01 00:00:00	96.82
10051090	Francia	2023-05-01 00:00:00	95987.84
10059000	Canadá	2023-04-01 00:00:00	920.38
10051010	Austria	2023-05-01 00:00:00	920
10059000	Japón	2024-04-01 00:00:00	92
10059000	México	2023-05-01 00:00:00	91
10051010	China	2023-07-01 00:00:00	90
10051090	India	2023-03-01 00:00:00	9.08
10051010	Francia	2023-04-01 00:00:00	878858

## Technical Test - DNEXT

PS:

- You cannot use Selenium.
- You find attached a similar output; if you couldn't finish the scraping part you can use it to finish the Power BI task.

# PART II: Power Bi

You will find a dataset that contains this data with less historical.

Use it in this task. The file is named: "Data Dnext test.xlsx"

1. On the first page, you have to build a table that has the following structure:

Monthly

Cumulative

Table

Line Chart

Monthly Chile exports in metric tons

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2020	637	87	8,944	10,274	6,297	2,951	2,316	633	289	8	21	147	32,604
2021	246	367	1,875	8,274	7,890	6,843	2,690	1,041	614	31	486	572	30,929
2022	532	164	3,034	4,352	5,951	3,393	724	1,414	1,124	88	427	314	21,515
2023	286	247	4,952	5,081	5,715	1,807	1,399	970	282	723	289	344	22,094
2024	86	68	1,244										1,398
Austria			27										27
France		2	323										325
Germany			316										316
Japan	42	35											76
Mexico		6	4										11
Panama	19		19										38
Spain	25	25	555										605
% YoY	-70%	-73%	-75%										-94%

Year

Multiple selections

Country partner

All

Product

☒ Select all
 ☒ Corn
 ☒ Wheat

YoY is the percentage change between current year and last year

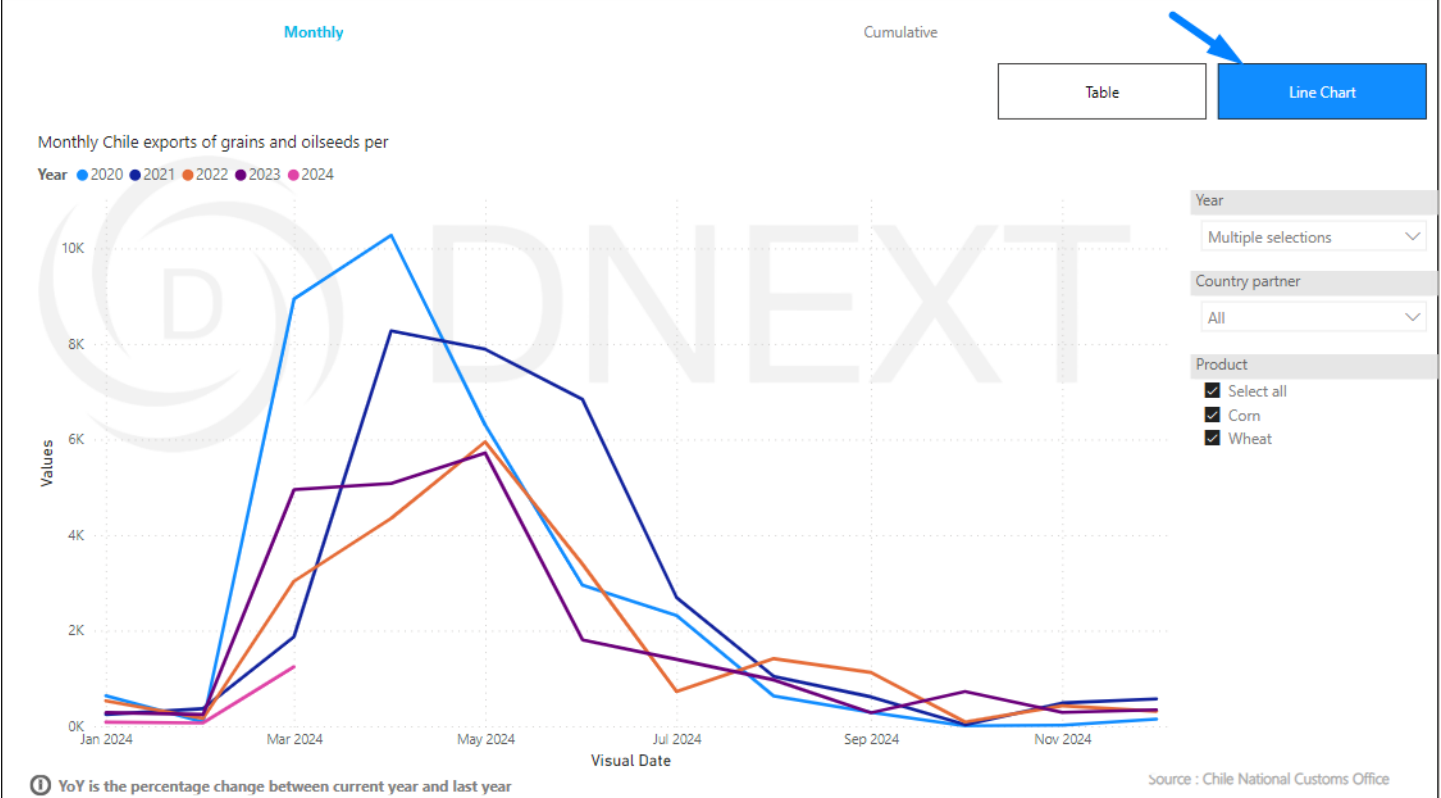
Source : Chile National Customs Office

This contains values for both products for each country, by month. We want to display this data in Metric Tons. (keep in mind that the data provided is in Kilograms).

PS:

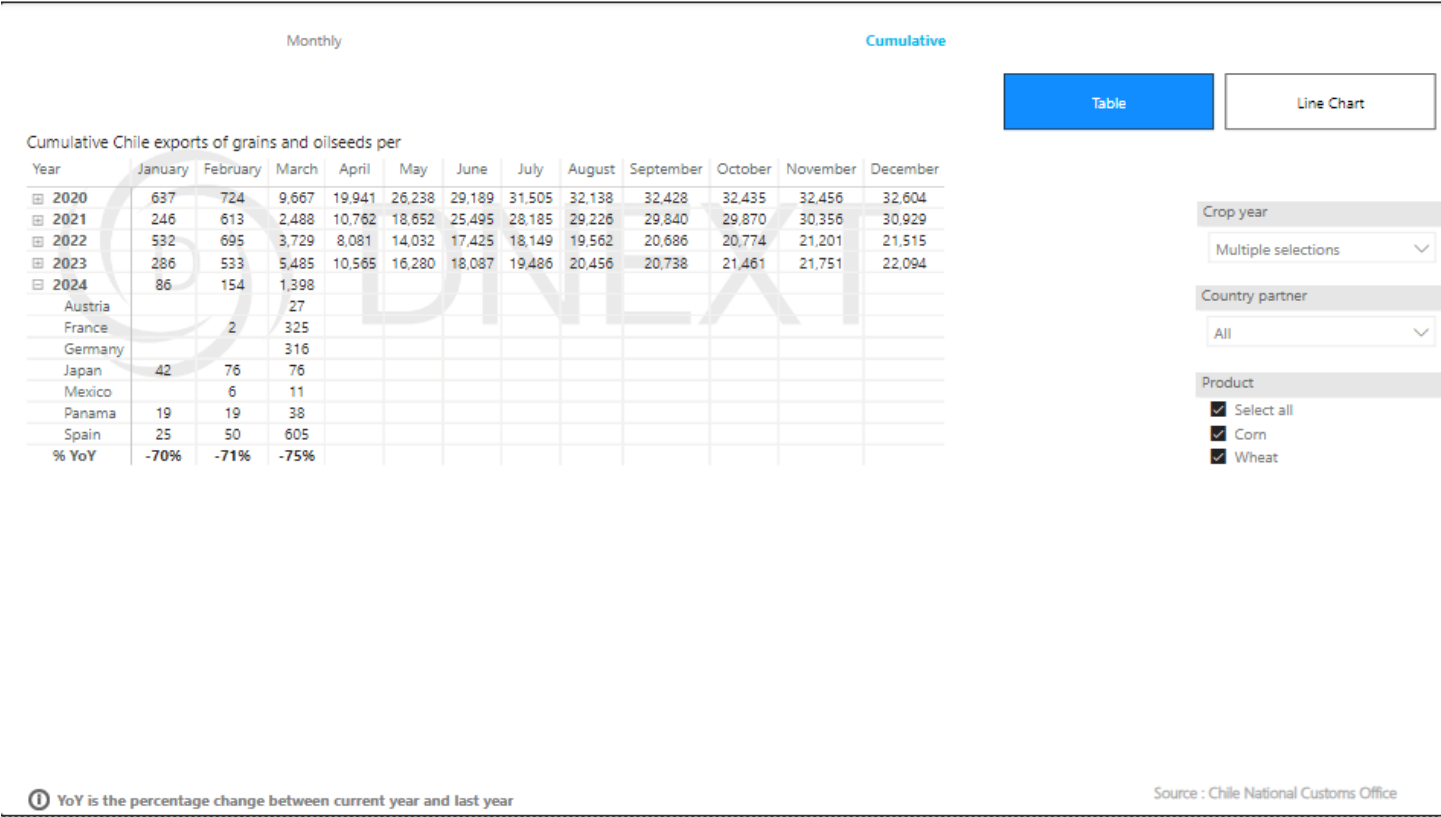
- %YoY is current year total vs pervious year and is calculated this way: (Current Year total – last year total)/last year total
  - Having countries in English is a plus
2. You have to create a bookmark to navigate to the line chart figure.

Technical Test - DNEXT



The graph should display a seasonal chart for different years.

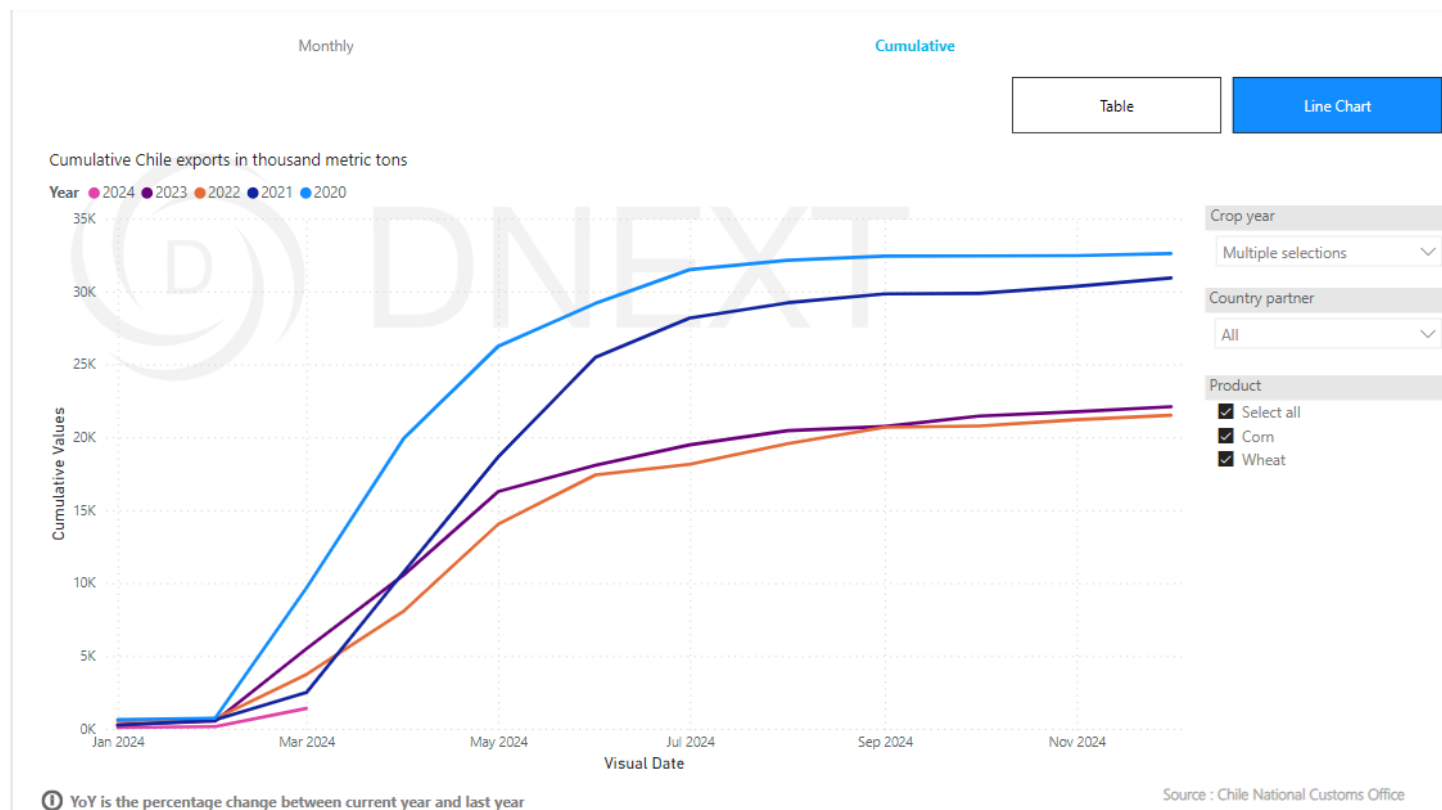
3. On the Second page, you have to build a table that has the following structure:



## Technical Test - DNEXT

This table calculates cumulative values for example the value shown in March= Value of January + Value of February + Value of March.

4. You have to create a bookmark to navigate to the cumulative line chart figure:



Please send your submission as follows:

- Respond to the email we sent you with the test.
- Attach a zip/rare file: that contains the python script file + its output in the name (output.xlsx) + the pbix file for the dashboard.
- Your submission should be sent in maximum 6 hours after the receiving the test.

**Good Luck**