



Herramienta de Gestión de Datos y Análisis para Personal Administrativo Escolar

Manual de Uso

DESCRIPCIÓN

La herramienta que aquí se detalla, fue diseñada para analizar y visualizar datos académicos. En este caso específico, los datos son referentes al desempeño de los estudiantes en cierto rubro que queda a consideración del individuo que haga uso de esta herramienta. La herramienta extrae los datos a base de archivos CSV y este archivo debe tener una estructura similar a la siguiente:

Name,Grade,Month,Year

John Doe,475,May,2023

Alice Smith,488,June,2023

Bob Johnson,432,July,2023

La herramienta trabaja en base a estas 4 columnas de datos: Name (Nombre), Grade (Calificación), Month (Mes) y Year (Año).

INTERFAZ

La herramienta puede ser utilizada con los siguientes links:

Pagina: caadi.github.io/

Archivos CSV: [csv examples](#)

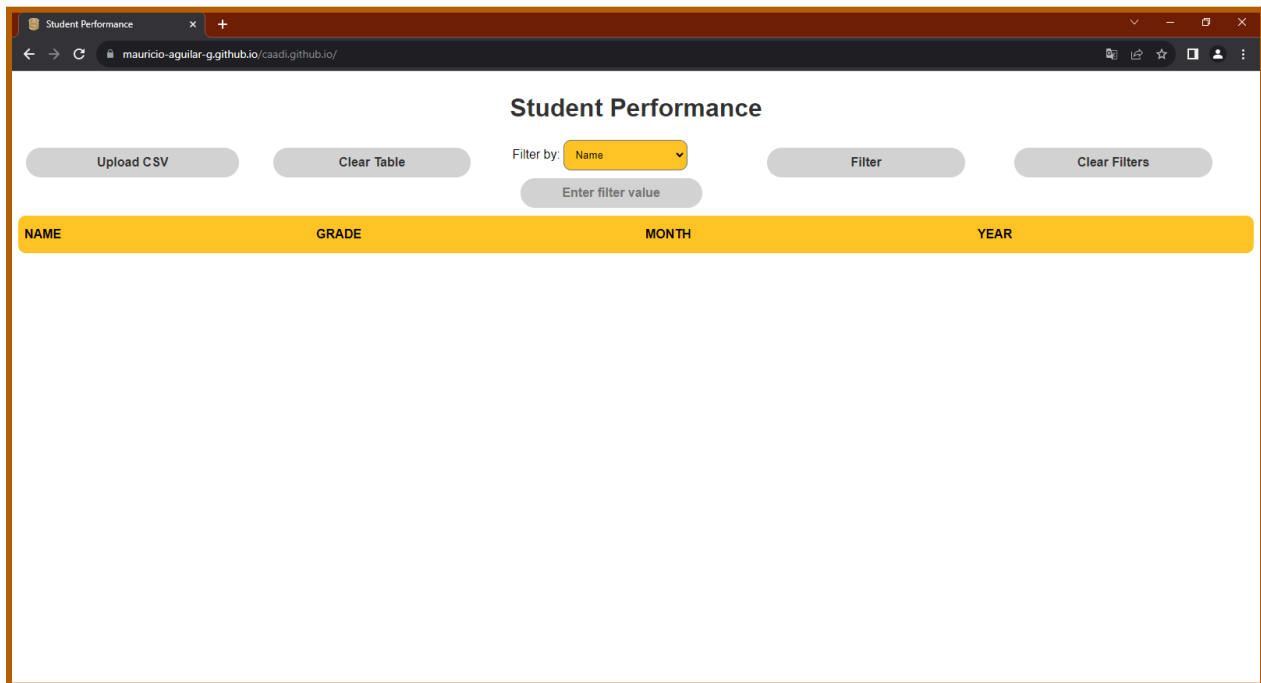


Fig. 1 Vista principal al entrar a la herramienta

Dentro de nuestra herramienta contamos con botones, un dropdown para elegir la categoría de filtro, un input para introducir valores con los cuales queremos filtrar nuestra información y lo principal, una tabla en la cual vamos viendo reflejada nuestros datos a gestionar.

Carga de archivos

Para comenzar a usar nuestra herramienta, debemos dar click en el botón:

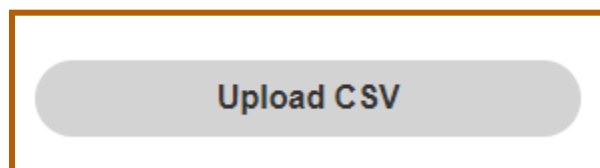


Fig. 2 Botón para cargar archivos



Para así poder seleccionar nuestro archivo:

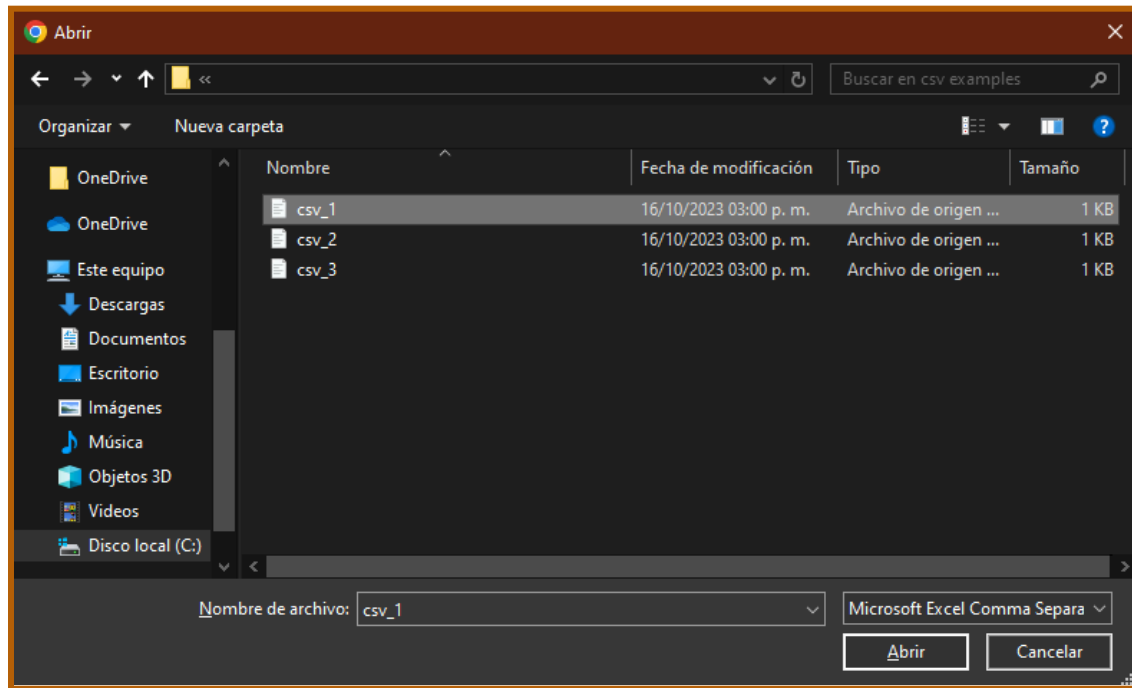


Fig. 3 Ventana para elegir archivo

NAME	GRADE	MONTH	YEAR
John Doe	475	May	2023
Alice Smith	488	June	2023
Bob Johnson	432	July	2023
Sarah Williams	499	August	2023
Michael Brown	467	September	2023
Lisa Johnson	480	January	2023
Ethan Smith	505	February	2023
Mia Wilson	455	March	2023
Daniel Davis	490	April	2023
Ava Anderson	475	May	2023

Fig. 4 Información extraída y reflejada en interfaz



La información mostrada en la interfaz permite ingresar más de un archivo, teniendo la restricción de solo poder ingresar de un archivo a la vez. Así mismo cuenta con manejo de datos duplicados. Es decir, nuestro archivo podría contener datos repetidos, pero estos solo serán mostrados una vez en nuestra tabla.

The screenshot shows a web browser window with the title "Student Performance". The URL is "mauricio-aguilar-g.github.io/caadi.github.io/". The page has a header with the title "Student Performance" and several buttons: "Upload CSV", "Clear Table", "Filter by: Name" (with a dropdown arrow), "Filter", and "Clear Filters". Below the buttons is a text input field labeled "Enter filter value". The main content is a table with four columns: NAME, GRADE, MONTH, and YEAR. The table contains 15 rows of student data.

NAME	GRADE	MONTH	YEAR
John Doe	475	May	2023
Alice Smith	488	June	2023
Bob Johnson	432	July	2023
Sarah Williams	499	August	2023
Michael Brown	467	September	2023
Lisa Johnson	480	January	2023
Ethan Smith	505	February	2023
Mia Wilson	455	March	2023
Daniel Davis	490	April	2023
Ava Anderson	475	May	2023
Benjamin Taylor	502	June	2023
Sofia Miller	465	July	2023
Noah Brown	488	August	2023
Grace Garcia	510	September	2023
Samuel Williams	462	October	2023
Lily Martinez	485	November	2023

Fig 5. Tabla actualizada



Mia Wilson	455	March	2023
Daniel Davis	490	April	2023
Ava Anderson	475	May	2023
Benjamin Taylor	502	June	2023
Sofia Miller	465	July	2023
Noah Brown	488	August	2023
Grace Garcia	510	September	2023
Samuel Williams	462	October	2023
Lily Martinez	485	November	2023
Elijah Davis	475	December	2023
Chloe Johnson	497	January	2024
Oliver Taylor	452	February	2024
Amelia Anderson	485	March	2024
Henry Smith	503	April	2024
Zoey Wilson	470	May	2024
Christopher Brown	510	June	2024
Harper Davis	460	July	2024
Andrew Martinez	492	August	2024
James Anderson	445	January	2024
Sophia Garcia	480	February	2024
Robert Miller	462	March	2024
Emma Davis	510	April	2024
William Johnson	488	May	2024

Fig 6. Tabla actualizada

Para limpiar nuestra tabla, tenemos el siguiente botón:



Fig. 7 Botón para limpiar tabla

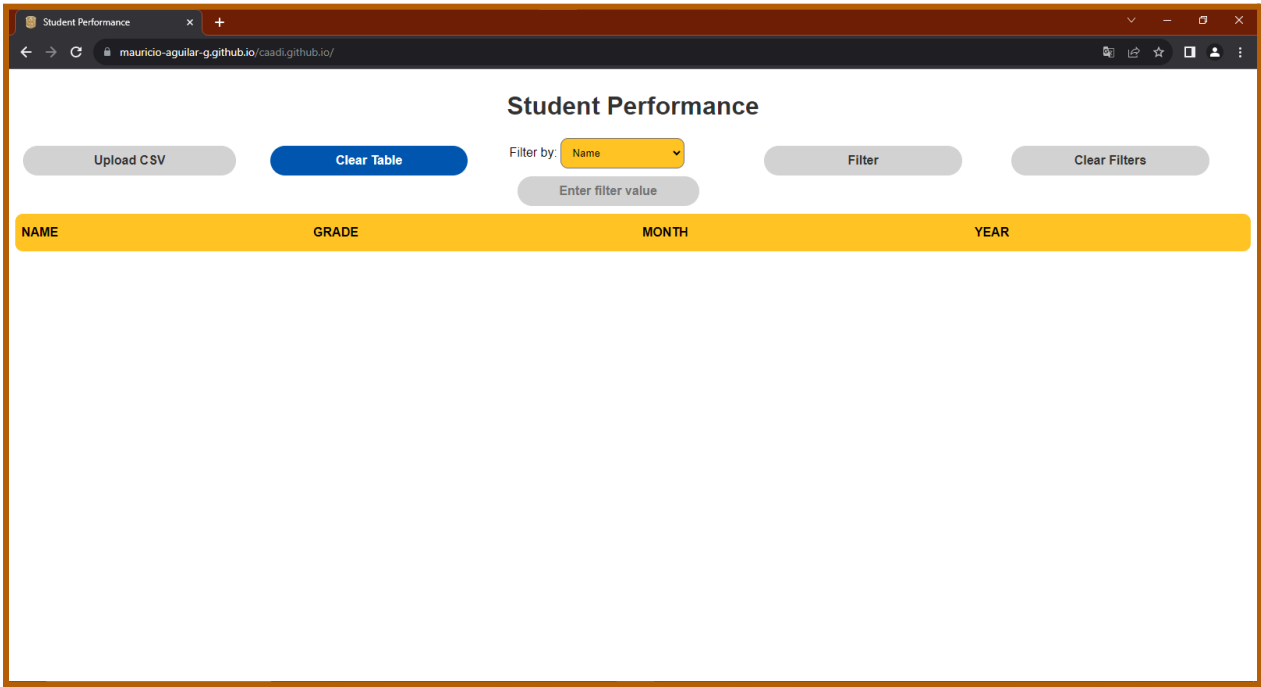


Fig. 8 Botón para cargar archivos

Ordenar

Cada encabezado de nuestra tabla, nos permite ordenar nuestros datos de forma ascendente o descendente, dependiendo sea el caso necesario.

A screenshot of the same web application, but now the table is populated with 15 rows of student data. The table has a yellow header row with columns: "NAME", "GRADE", "MONTH", and "YEAR". The "NAME" column has a small upward-pointing triangle icon next to it, indicating it is the current sort key. The data rows are as follows:

NAME	GRADE	MONTH	YEAR
Alice Smith	488	June	2023
Amelia Anderson	485	March	2024
Andrew Martinez	492	August	2024
Ava Anderson	475	May	2023
Benjamin Taylor	502	June	2023
Bob Johnson	432	July	2023
Chloe Johnson	497	January	2024
Christopher Brown	510	June	2024
Daniel Davis	490	April	2023
Elijah Davis	475	December	2023
Emma Davis	510	April	2024
Ethan Smith	505	February	2023
Grace Garcia	510	September	2023
Harper Davis	460	July	2024
Henry Smith	503	April	2024
James Anderson	445	January	2024



Fig 9. Tabla ordenada ascendente para Name

Student Performance

mauricio-aguilar-g.github.io/caadi.github.io/

Upload CSV

Clear Table

Filter by: Name

Filter

Clear Filters

Enter filter value

NAME	GRADE	MONTH	YEAR
Zoey Wilson	470	May	2024
William Johnson	488	May	2024
Sophia Garcia	480	February	2024
Sofia Miller	465	July	2023
Sarah Williams	499	August	2023
Samuel Williams	462	October	2023
Robert Miller	462	March	2024
Oliver Taylor	452	February	2024
Noah Brown	488	August	2023
Michael Brown	467	September	2023
Mia Wilson	455	March	2023
Lisa Johnson	480	January	2023
Lily Martinez	485	November	2023
John Doe	475	May	2023
James Anderson	445	January	2024
Henry Smith	503	April	2024

Fig 10. Tabla ordenada descendente para Name

Student Performance

mauricio-aguilar-g.github.io/caadi.github.io/

Upload CSV

Clear Table

Filter by: Name

Filter

Clear Filters

Enter filter value

NAME	GRADE	MONTH	YEAR
Bob Johnson	432	July	2023
James Anderson	445	January	2024
Oliver Taylor	452	February	2024
Mia Wilson	455	March	2023
Harper Davis	460	July	2024
Samuel Williams	462	October	2023
Robert Miller	462	March	2024
Sofia Miller	465	July	2023
Michael Brown	467	September	2023
Zoey Wilson	470	May	2024
John Doe	475	May	2023
Elijah Davis	475	December	2023
Ava Anderson	475	May	2023
Sophia Garcia	480	February	2024
Lisa Johnson	480	January	2023
Lily Martinez	485	November	2023

Fig 11. Tabla ordenada ascendente para Grade



Student Performance

Upload CSV Clear Table Filter by: Name Filter Clear Filters

Enter filter value

NAME	GRADE	MONTH	YEAR
Grace Garcia	510	September	2023
Emma Davis	510	April	2024
Christopher Brown	510	June	2024
Ethan Smith	505	February	2023
Henry Smith	503	April	2024
Benjamin Taylor	502	June	2023
Sarah Williams	499	August	2023
Chloe Johnson	497	January	2024
Andrew Martinez	492	August	2024
Daniel Davis	490	April	2023
William Johnson	488	May	2024
Noah Brown	488	August	2023
Alice Smith	488	June	2023
Lily Martinez	485	November	2023
Amelia Anderson	485	March	2024
Sophia Garcia	480	February	2024

Fig 12. Tabla ordenada descendente para Grade

Student Performance

Upload CSV Clear Table Filter by: Name Filter Clear Filters

Enter filter value

NAME	GRADE	MONTH	YEAR
Chloe Johnson	497	January	2024
Lisa Johnson	480	January	2023
James Anderson	445	January	2024
Ethan Smith	505	February	2023
Sophia Garcia	480	February	2024
Oliver Taylor	452	February	2024
Amelia Anderson	485	March	2024
Robert Miller	462	March	2024
Mia Wilson	455	March	2023
Emma Davis	510	April	2024
Henry Smith	503	April	2024
Daniel Davis	490	April	2023
William Johnson	488	May	2024
John Doe	475	May	2023
Ava Anderson	475	May	2023
Zoey Wilson	470	May	2024

Fig 13. Tabla ordenada ascendente para Month



Student Performance

Upload CSV Clear Table Filter by: Name Filter Clear Filters

Enter filter value

NAME	GRADE	MONTH	YEAR
Elijah Davis	475	December	2023
Lily Martinez	485	November	2023
Samuel Williams	462	October	2023
Grace Garcia	510	September	2023
Michael Brown	467	September	2023
Sarah Williams	499	August	2023
Andrew Martinez	492	August	2024
Noah Brown	488	August	2023
Sofia Miller	465	July	2023
Harper Davis	460	July	2024
Bob Johnson	432	July	2023
Christopher Brown	510	June	2024
Benjamin Taylor	502	June	2023
Alice Smith	488	June	2023
William Johnson	488	May	2024
John Doe	475	May	2023

Fig 14. Tabla ordenada descendente para Month

Student Performance

Upload CSV Clear Table Filter by: Name Filter Clear Filters

Enter filter value

NAME	GRADE	MONTH	YEAR
Elijah Davis	475	December	2023
Lily Martinez	485	November	2023
Samuel Williams	462	October	2023
Grace Garcia	510	September	2023
Michael Brown	467	September	2023
Sarah Williams	499	August	2023
Noah Brown	488	August	2023
Sofia Miller	465	July	2023
Bob Johnson	432	July	2023
Benjamin Taylor	502	June	2023
Alice Smith	488	June	2023
John Doe	475	May	2023
Ava Anderson	475	May	2023
Daniel Davis	490	April	2023
Mia Wilson	455	March	2023
Ethan Smith	505	February	2023

Fig 15. Tabla ordenada ascendente para Year



The screenshot shows a web application titled "Student Performance". At the top, there are buttons for "Upload CSV", "Clear Table", and "Filter by: Name" (with a dropdown arrow). Below these is a "Filter" button and a "Clear Filters" button. A text input field labeled "Enter filter value" is also present. The main part of the interface is a table with the following data:

NAME	GRADE	MONTH	YEAR
Andrew Martinez	492	August	2024
Harper Davis	460	July	2024
Christopher Brown	510	June	2024
William Johnson	488	May	2024
Zoey Wilson	470	May	2024
Emma Davis	510	April	2024
Henry Smith	503	April	2024
Amelia Anderson	485	March	2024
Robert Miller	462	March	2024
Sophia Garcia	480	February	2024
Oliver Taylor	452	February	2024
Chloe Johnson	497	January	2024
James Anderson	445	January	2024
Elijah Davis	475	December	2023
Lily Martinez	485	November	2023
Samuel Williams	462	October	2023

Fig 16. Tabla ordenada descendente para Year

Filtrar

Hay casos en los que ordenar no es suficiente, por eso tenemos el apartado de filtros. Nos permite manejar y gestionar de manera más específica la información y así ver solo lo que necesitamos.

Para filtrar nuestros datos tenemos dentro de nuestra herramienta 4 elementos que hacen esto posible:

This image shows a close-up of the filter controls. It includes a "Filter by:" label followed by a dropdown menu currently set to "Name". Below the dropdown is a text input field with the placeholder "Enter filter value". To the right of the input field is a "Filter" button, and further right is a "Clear Filters" button.

Fig 17. Filtros

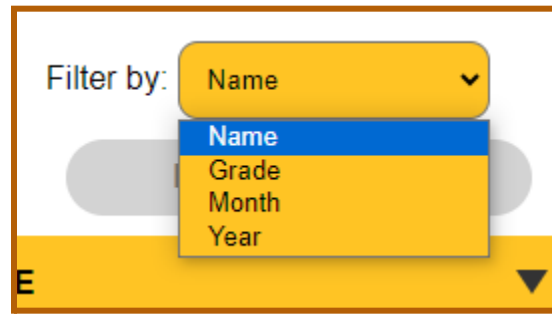


Fig 18. Dropdown de columnas

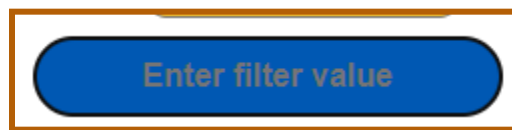


Fig 19. Input para filtro



Fig 20. Botones para aplicar el filtro y para borrar el filtro activo



The screenshot shows a web application titled "Student Performance". At the top, there are buttons for "Upload CSV", "Clear Table", and "Clear Filters". A filter dropdown is set to "Name" with the value "William" entered. A blue "Filter" button is visible. Below the filter controls is a table with four columns: NAME, GRADE, MONTH, and YEAR. The table contains three rows of data. Below the table is a "Download Filtered Data CSV" button.

NAME	GRADE	MONTH	YEAR
William Johnson	488	May	2024
Samuel Williams	462	October	2023
Sarah Williams	499	August	2023

Fig 21. Filtro activo para la columna Name

The screenshot shows the same "Student Performance" application. The filter dropdown is now set to "Grade" with the value "488" entered. The table now displays three rows of data where the grade is 488.

NAME	GRADE	MONTH	YEAR
William Johnson	488	May	2024
Noah Brown	488	August	2023
Alice Smith	488	June	2023

Fig 22. Filtro activo para la columna Grade



Student Performance

Upload CSV Clear Table Filter by: Month Filter Clear Filters

June

NAME	GRADE	MONTH	YEAR
Christopher Brown	510	June	2024
Benjamin Taylor	502	June	2023
Alice Smith	488	June	2023

Download Filtered Data CSV

Fig 23. Filtro activo para la columna Month

Student Performance

Upload CSV Clear Table Filter by: Year Filter Clear Filters

2024

NAME	GRADE	MONTH	YEAR
Andrew Martinez	492	August	2024
Harper Davis	480	July	2024
Christopher Brown	510	June	2024
William Johnson	488	May	2024
Zoey Wilson	470	May	2024
Emma Davis	510	April	2024
Henry Smith	503	April	2024
Amelia Anderson	485	March	2024
Robert Miller	462	March	2024
Sophia Garcia	480	February	2024
Oliver Taylor	452	February	2024
Chloe Johnson	497	January	2024
James Anderson	445	January	2024

Download Filtered Data CSV

Fig 24. Filtro activo para la columna Year



Para regresar a la vista completa de nuestra tabla, sin filtros, debemos dar click en “Clear Filters”.

The screenshot shows a web application titled "Student Performance". At the top, there are buttons for "Upload CSV", "Clear Table", and a "Filter by:" dropdown menu set to "Year". Below the dropdown is an "Enter filter value" input field. To the right of the input field is a "Filter" button and a prominent blue "Clear Filters" button. The table below has columns: NAME, GRADE, MONTH, and YEAR. The table contains 18 rows of student data.

NAME	GRADE	MONTH	YEAR
Andrew Martinez	492	August	2024
Harper Davis	460	July	2024
Christopher Brown	510	June	2024
William Johnson	488	May	2024
Zoey Wilson	470	May	2024
Emma Davis	510	April	2024
Henry Smith	503	April	2024
Amelia Anderson	485	March	2024
Robert Miller	462	March	2024
Sophia Garcia	480	February	2024
Oliver Taylor	452	February	2024
Chloe Johnson	497	January	2024
James Anderson	445	January	2024
Elijah Davis	475	December	2023
Lily Martinez	485	November	2023
Samuel Williams	462	October	2023

Fig 25. Filtros activos despejados

Descarga de archivo

Una vez que aplicamos un filtro, al final de nuestra tabla se nos habilita un botón “Download Filtered Data CSV”. Este botón nos permite descargar la información disponible en nuestra tabla en un archivo de tipo CSV.

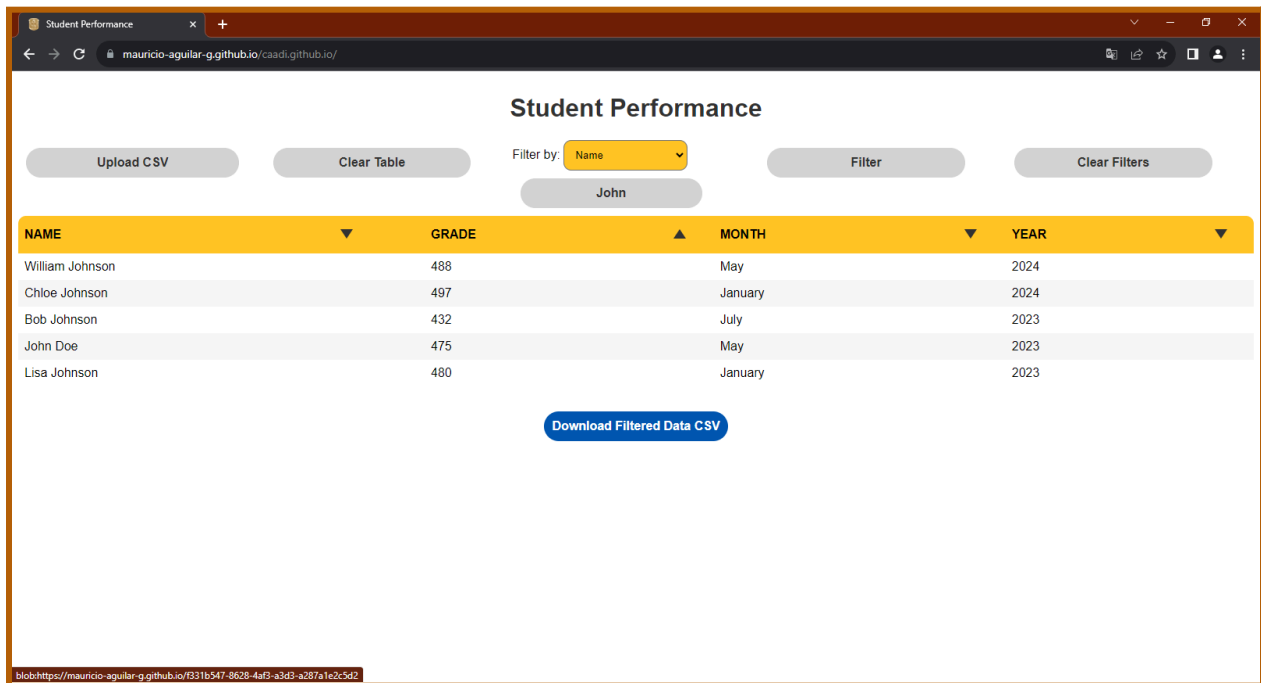


Fig 26. Visualización del boton “Download Filtered Data CSV”

Una vez presionado, nos descarga el archivo.

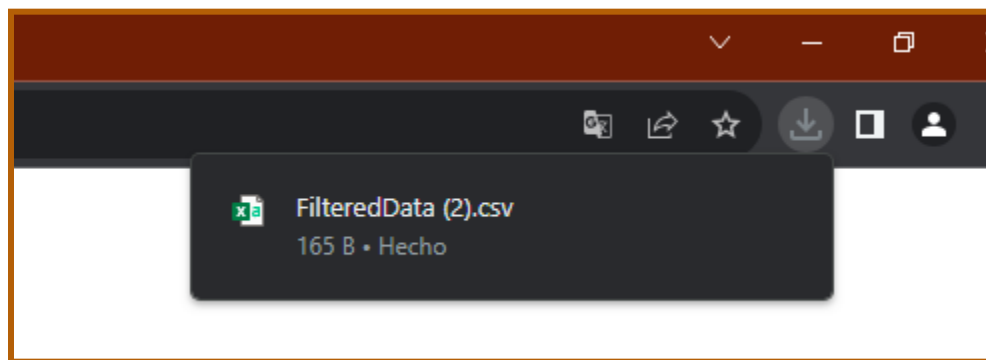


Fig 27. Archivo descargado



```
FilteredData (2).csv X
1 |name,grade,month,year
2 William Johnson,488,May,2024
3 Chloe Johnson,497,January,2024
4 Bob Johnson,432,July,2023
5 John Doe,475,May,2023
6 Lisa Johnson,480,January,2023
7
```

Fig 28. Información dentro del archivo csv