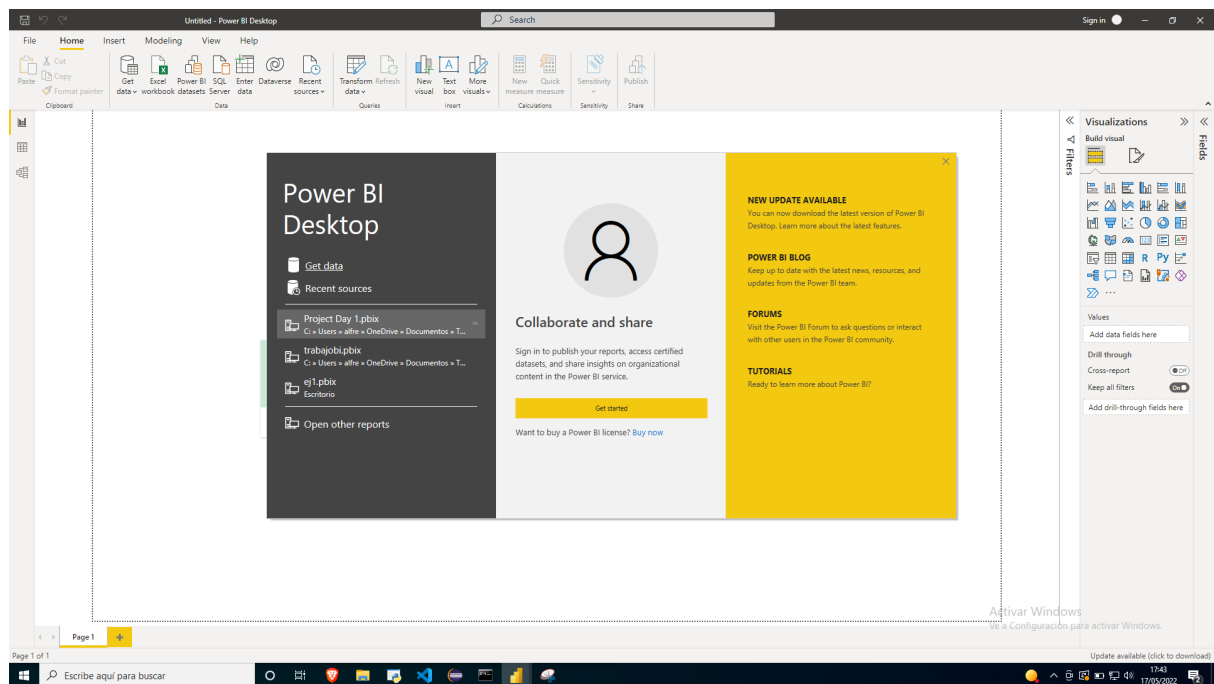


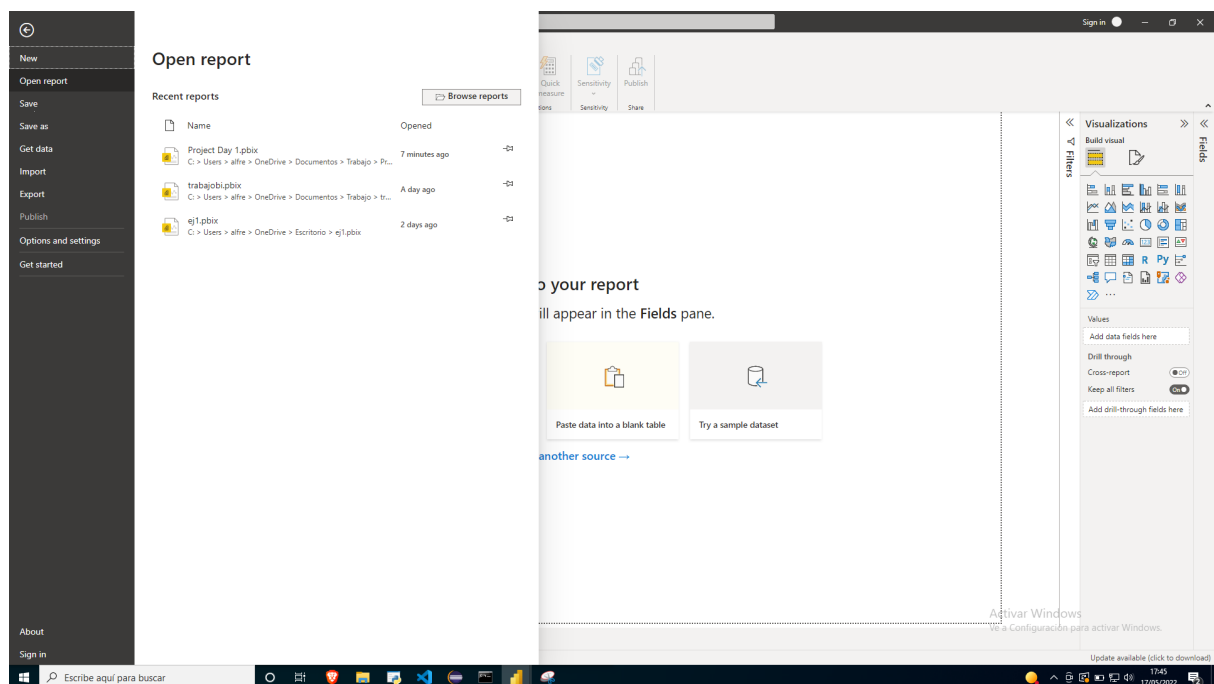
Tarea 1 Power BI

Alfredo Talavera Ramajo

Abrimos el programa Power BI

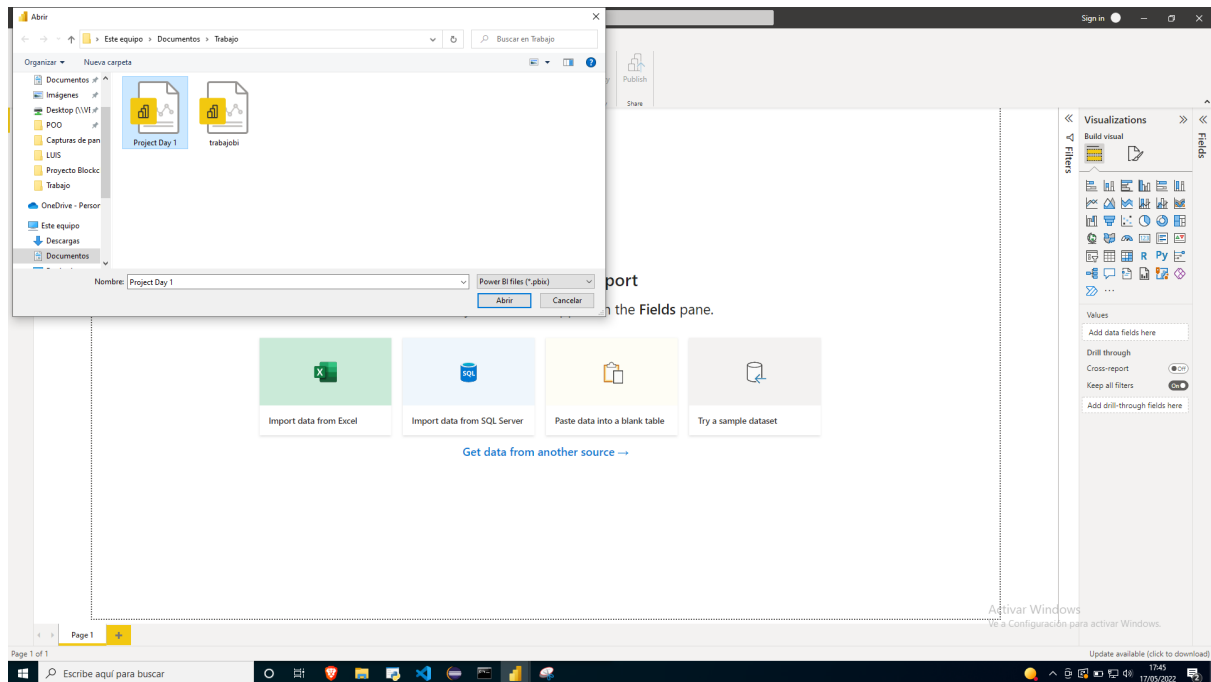


Le damos a new y a browse reports

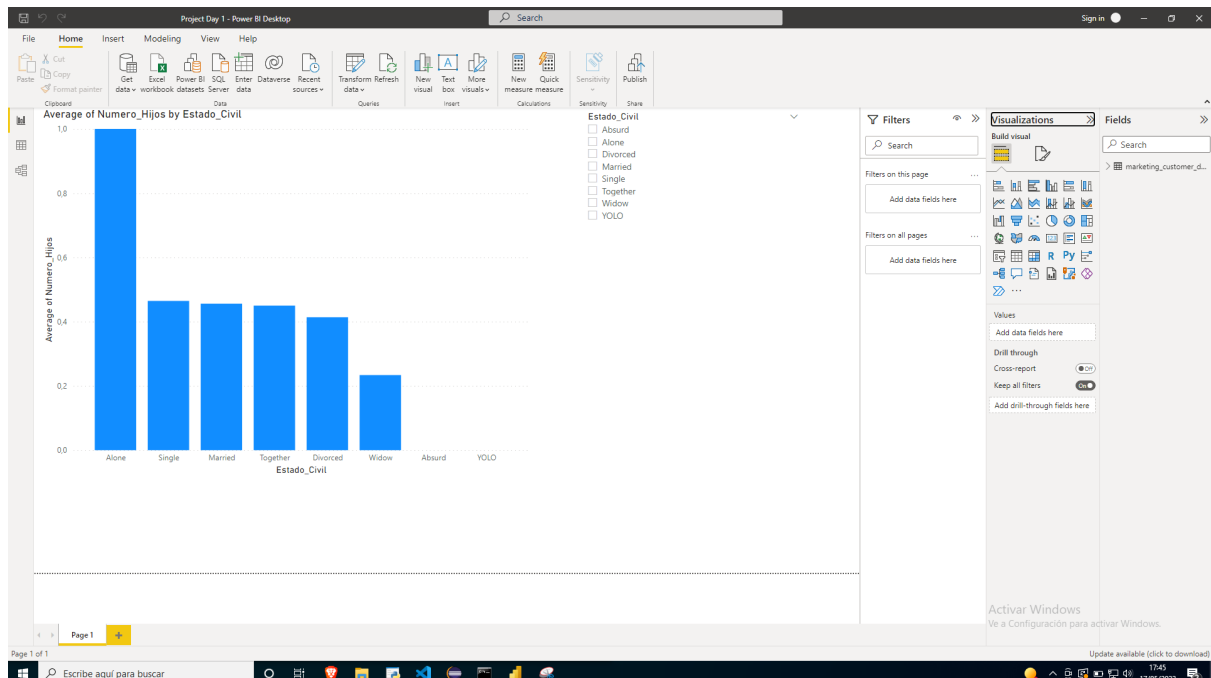


1. Abre el archivo Power BI .pbix adjunto o utiliza tu propio archivo Power BI

Seleccionamos el archivo de Power BI



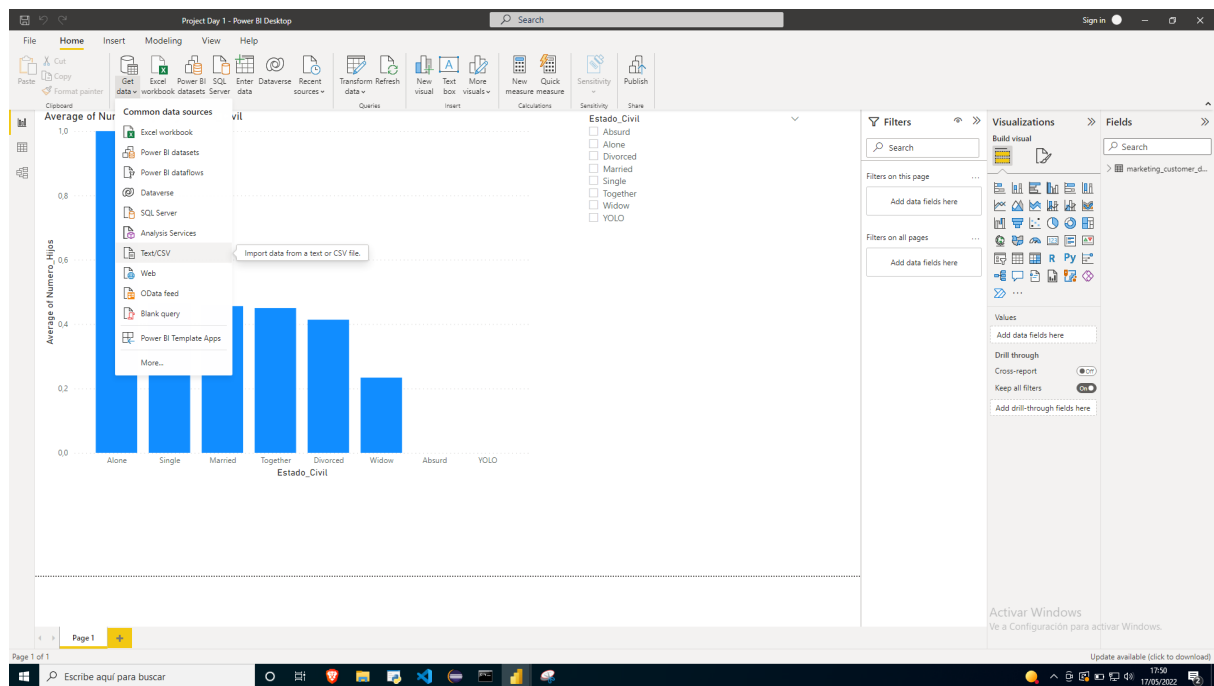
Nos mostrará lo que contiene el archivo



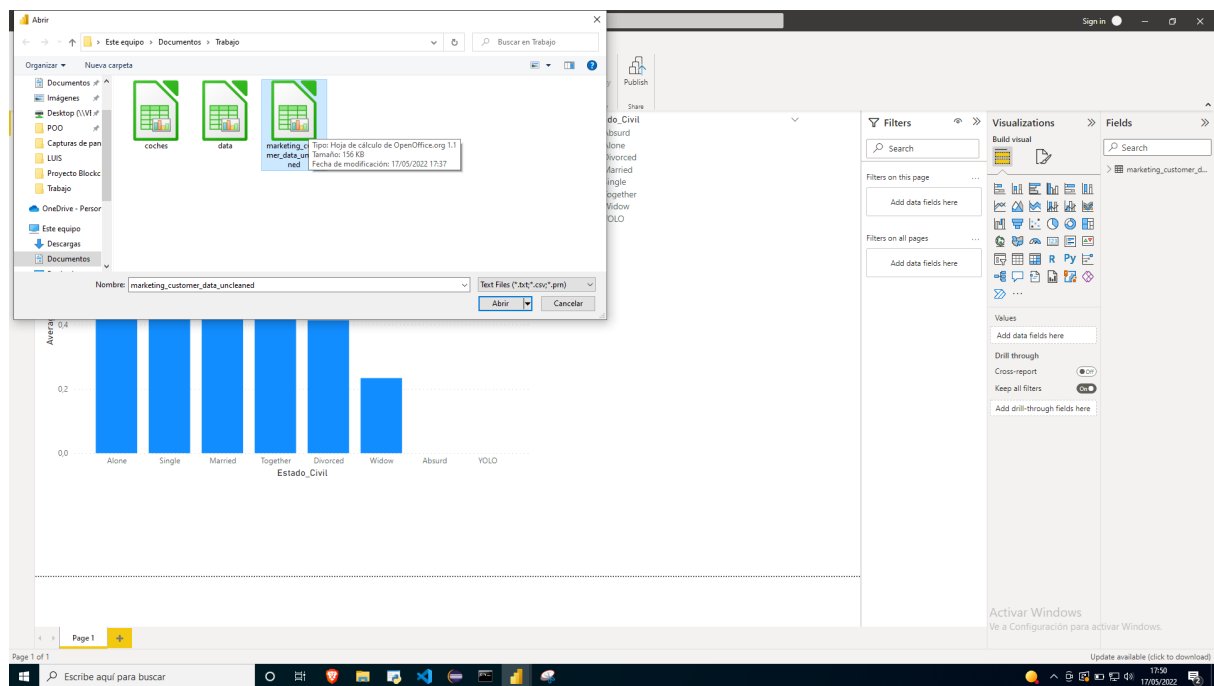
2. Limpia los datos

- Conectar el archivo a Power BI

Abrimos un archivo, en este caso un excel, le damos a get data y al apartado de Text/CSV



Abrimos el archivo que requerimos



Para limpiar la tabla solo nos basta con darle a modificar la tabla, primero nos la previsualizará

Archivos

Inicio

Transform

Power Query Editor

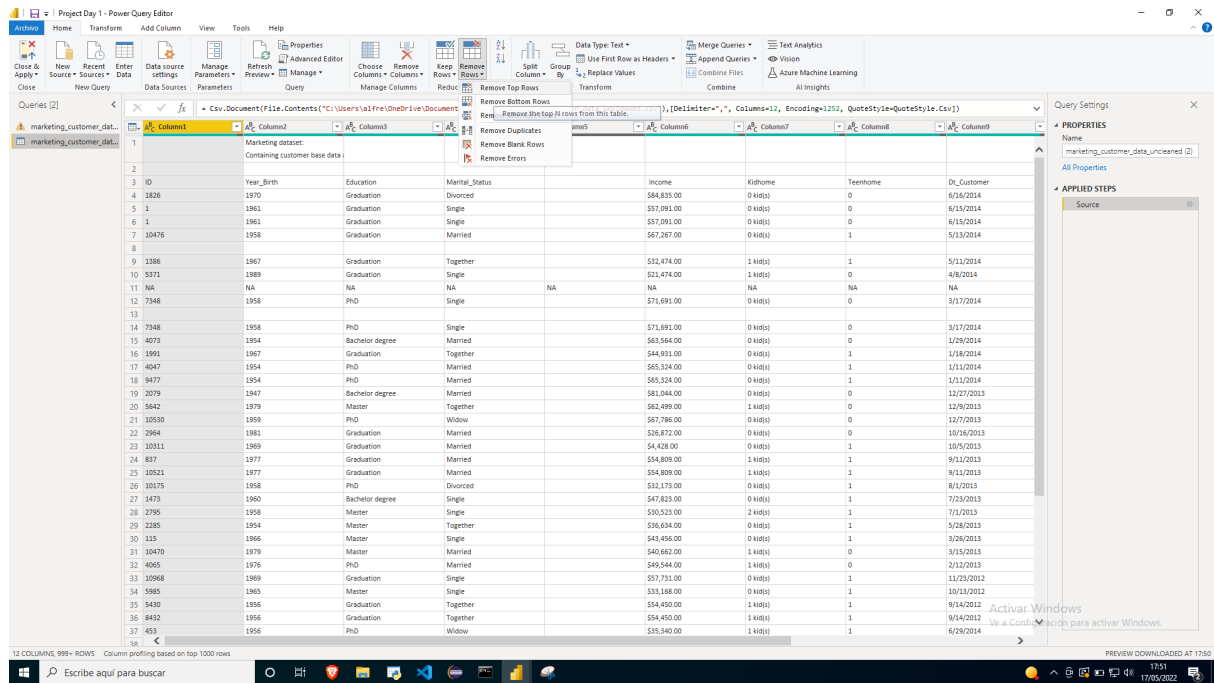
View

Tools

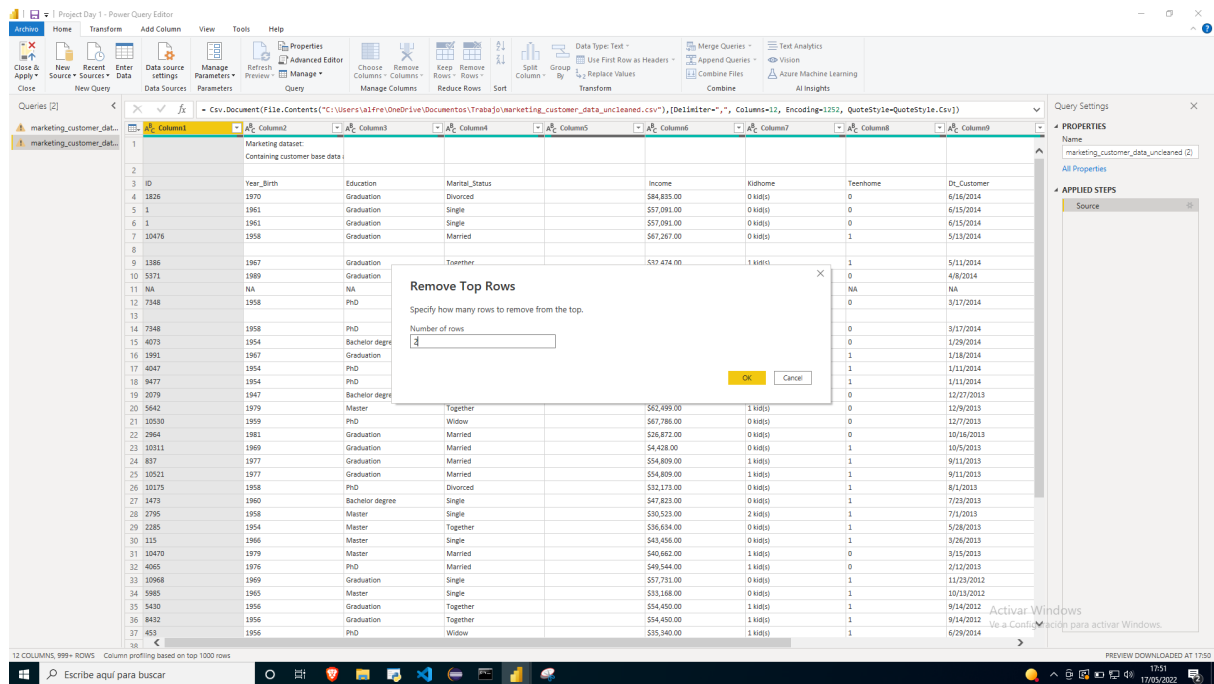
Help

- **Eliminar las filas superiores**

Para eliminar las celdas de arriba nos bastará con ir a remove rows y darle a remove top rows



Seleccionamos el número de filas superiores que queremos eliminar



- Usar la primera fila como cabecera

Ahora vamos a cambiar el nombre de la columna, lo bueno es que tenemos el nombre que queremos justo debajo en la fila inferior

Table: Skip(Source, 2)

ID	Year_Birth	Education	Marital_Status	Income	Kidhome	Teenhome	Dt_Customer
1	1826	1970	Divorced	\$84,835.00	0	0	6/16/2014
2	1	1961	Divorced	\$57,091.00	0	0	6/15/2014
3	1	1961	Single	\$57,091.00	0	0	6/15/2014
4	1	1961	Single	\$57,091.00	0	0	6/15/2014
5	10476	1958	Married	\$67,267.00	0	1	5/13/2014
6	1386	1967	Together	\$32,474.00	1	1	5/11/2014
7	5371	1989	Single	\$21,474.00	1	0	4/8/2014
8	NA	NA	NA	NA	NA	NA	NA
9	7348	1958	Single	\$71,691.00	0	0	3/17/2014
10	7348	1958	Single	\$71,691.00	0	0	3/17/2014
11	7348	1958	Single	\$71,691.00	0	0	3/17/2014
12	4073	1954	Bachelor degree	\$63,564.00	0	0	1/29/2014
13	1991	1967	Together	\$44,931.00	0	1	1/18/2014
14	4047	1954	Married	\$65,324.00	0	1	1/11/2014
15	8477	1954	Married	\$65,324.00	0	1	1/11/2014
16	8477	1954	Married	\$65,324.00	0	1	1/11/2014
17	2079	1947	Bachelor degree	\$81,044.00	0	0	12/17/2013
18	5642	1979	Master	\$62,499.00	1	0	12/9/2013
19	10530	1959	PhD	\$67,786.00	0	0	12/7/2013
20	2964	1961	Graduation	\$26,872.00	0	0	10/16/2013
21	10311	1969	Graduation	\$4,428.00	0	1	10/16/2013
22	837	1977	Graduation	\$54,809.00	1	1	9/15/2013
23	10521	1977	Graduation	\$54,809.00	1	1	9/15/2013
24	10175	1958	PhD	\$32,173.00	0	1	8/7/2013
25	1473	1960	Bachelor degree	\$47,823.00	0	1	7/23/2013
26	7795	1958	Master	\$30,523.00	2	1	7/1/2013
27	2385	1954	Master	\$36,634.00	0	1	5/28/2013
28	115	1966	Master	\$45,456.00	0	1	5/26/2013
29	10470	1979	Master	\$40,662.00	1	0	3/15/2013
30	4065	1976	PhD	\$49,544.00	1	0	2/12/2013
31	10968	1969	Graduation	\$57,731.00	0	1	11/23/2012
32	1985	1965	Master	\$33,168.00	0	1	10/13/2012
33	1430	1956	Graduation	\$54,450.00	1	1	9/14/2012
34	8432	1956	Graduation	\$54,450.00	1	1	9/14/2012
35	453	1956	PhD	\$35,340.00	1	1	6/29/2014
36	9687	1975	Graduation	\$73,170.00	0	0	5/31/2014
37	8890	1971	PhD	\$66,808.00	1	0	5/30/2014
38	1624	1986	Graduation	\$79,529.00	0	1	4/27/2014

- Cambiar los nombres de las columnas

Para cambiar el nombre de la columna, en este caso vamos a traducirla, vamos a hacer click derecho y darle a rename

Table: PromoteHeaders(*Removed Top Rows*, [PromoteAllScalars=true])

ID	Marital_Status	Education	Income	Kidhome	Teenhome	Dt_Customer
1	1826	1970	Divorced	\$84,835.00	0	6/16/2014
2	1	1961	Divorced	\$57,091.00	0	6/15/2014
3	1	1961	Single	\$57,091.00	0	6/15/2014
4	1	1961	Single	\$57,091.00	0	6/15/2014
5	10476	1958	Married	\$67,267.00	0	5/13/2014
6	1386	1967	Together	\$32,474.00	1	5/11/2014
7	5371	1989	Single	\$21,474.00	1	4/8/2014
8	NA	NA	NA	NA	NA	NA
9	7348	1958	Single	\$71,691.00	0	3/17/2014
10	7348	1958	Single	\$71,691.00	0	3/17/2014
11	7348	1958	Single	\$71,691.00	0	3/17/2014
12	4073	1954	Bachelor degree	\$63,564.00	0	1/29/2014
13	1991	1967	Together	\$44,931.00	0	1/18/2014
14	4047	1954	Married	\$65,324.00	0	1/11/2014
15	8477	1954	Married	\$65,324.00	0	1/11/2014
16	8477	1954	Married	\$65,324.00	0	1/11/2014
17	2079	1947	Bachelor degree	\$81,044.00	0	12/17/2013
18	5642	1979	Master	\$62,499.00	1	12/9/2013
19	10530	1959	PhD	\$67,786.00	0	12/7/2013
20	2964	1961	Graduation	\$26,872.00	0	10/16/2013
21	10311	1969	Graduation	\$4,428.00	0	10/16/2013
22	837	1977	Graduation	\$54,809.00	1	9/15/2013
23	10521	1977	Graduation	\$54,809.00	1	9/15/2013
24	10175	1958	PhD	\$32,173.00	0	8/7/2013
25	1473	1960	Bachelor degree	\$47,823.00	0	7/23/2013
26	7795	1958	Master	\$30,523.00	2	7/1/2013
27	2385	1954	Master	\$36,634.00	0	5/28/2013
28	115	1966	Master	\$45,456.00	0	5/26/2013
29	10470	1979	Master	\$40,662.00	1	3/15/2013
30	4065	1976	PhD	\$49,544.00	1	2/12/2013
31	10968	1969	Graduation	\$57,731.00	0	11/23/2012
32	1985	1965	Master	\$33,168.00	0	10/13/2012
33	1430	1956	Graduation	\$54,450.00	1	9/14/2012
34	8432	1956	Graduation	\$54,450.00	1	9/14/2012
35	453	1956	PhD	\$35,340.00	1	6/29/2014
36	9687	1975	Graduation	\$73,170.00	0	5/31/2014
37	8890	1971	PhD	\$66,808.00	1	5/30/2014
38	1624	1986	Graduation	\$79,529.00	0	4/27/2014
39	1624	1986	PhD	\$79,529.00	0	4/27/2014

Nos quedaría así:

Table: RenameColumns(*Promoted Headers*,{"Year_Birth", "Año nacimiento", "Education", "Educacion", "Marital_Status", "Estado civil", "Income", "Ganancias", "Kidhome", "ninios"},

ID	Año nacimiento	Educación	Estado civil	Ingresos	Anos	Adolescente	Fecha
1	1826	1970	Graduation	Divorced	\$84,835.00	0	6/16/2014
2	1	1961	Graduation	Single	\$57,091.00	0	6/15/2014
3	1	1961	Graduation	Single	\$57,091.00	0	6/15/2014
4	10476	1958	Graduation	Married	\$67,267.00	0	5/13/2014
5							
6	1886	1967	Graduation	Together	\$12,474.00	1	5/11/2014
7	5371	1989	Graduation	Single	\$21,474.00	1	4/8/2014
8	NA	NA	NA	NA	NA	NA	NA
9	7348	1958	PhD	Single	\$71,691.00	0	3/17/2014
10							
11	7348	1958	PhD	Single	\$71,691.00	0	3/17/2014
12	4073	1954	Bachelor degree	Married	\$63,564.00	0	1/29/2014
13	1991	1967	Graduation	Together	\$44,931.00	1	1/18/2014
14	4047	1954	PhD	Married	\$63,524.00	1	1/11/2014
15	8477	1954	PhD	Married	\$63,524.00	1	1/11/2014
16	2079	1947	Bachelor degree	Married	\$81,044.00	0	12/27/2013
17	5642	1979	Master	Together	\$62,499.00	1	12/9/2013
18	10530	1959	PhD	Widow	\$67,786.00	0	12/7/2013
19	2964	1981	Graduation	Married	\$26,872.00	0	10/16/2013
20	10311	1969	Graduation	Married	\$4,429.00	1	10/1/2013
21	837	1977	Graduation	Married	\$54,809.00	1	9/12/2013
22	10521	1977	Graduation	Married	\$54,809.00	1	9/11/2013
23	10175	1958	PhD	Divorced	\$32,173.00	0	8/1/2013
24	1473	1960	Bachelor degree	Single	\$47,823.00	0	7/23/2013
25	2795	1958	Master	Single	\$30,523.00	2	7/3/2013
26	285	1954	Master	Together	\$38,634.00	0	5/28/2013
27	115	1966	Master	Single	\$43,456.00	0	3/26/2013
28	10470	1979	Master	Married	\$40,662.00	1	3/15/2013
29	4065	1976	PhD	Married	\$49,544.00	1	2/12/2013
30	10968	1969	Graduation	Single	\$57,731.00	0	11/23/2012
31	1985	1965	Master	Single	\$33,168.00	0	10/13/2012
32	5430	1956	Graduation	Together	\$54,450.00	1	9/14/2012
33							

Para eliminar una columna entera solo tenemos que seleccionarla y con click derecho le damos a rename

Table: RenameColumns(*Promoted Headers*,{"Year_Birth", "Año nacimiento", "Education", "Educacion", "Marital_Status", "Estado civil", "Income", "Ganancias", "Kidhome", "ninios"},

ID	Año nacimiento	Educación	Estado civil	Ingresos	Anos	Adolescente	Fecha
1	1826	1970	Graduation	Divorced	\$84,835.00	0	6/16/2014
2	1	1961	Graduation	Single	\$57,091.00	0	6/15/2014
3	1	1961	Graduation	Single	\$57,091.00	0	6/15/2014
4	10476	1958	Graduation	Married	\$67,267.00	0	5/13/2014
5							
6	1886	1967	Graduation	Together	\$12,474.00	1	5/11/2014
7	5371	1989	Graduation	Single	\$21,474.00	1	4/8/2014
8	NA	NA	NA	NA	NA	NA	NA
9	7348	1958	PhD	Single	\$71,691.00	0	3/17/2014
10							
11	7348	1958	PhD	Single	\$71,691.00	0	3/17/2014
12	4073	1954	Bachelor degree	Married	\$63,564.00	0	1/29/2014
13	1991	1967	Graduation	Together	\$44,931.00	1	1/18/2014
14	4047	1954	PhD	Married	\$63,524.00	1	1/11/2014
15	8477	1954	PhD	Married	\$63,524.00	1	1/11/2014
16	2079	1947	Bachelor degree	Married	\$81,044.00	0	12/27/2013
17	5642	1979	Master	Together	\$62,499.00	1	12/9/2013
18	10530	1959	PhD	Widow	\$67,786.00	0	12/7/2013
19	2964	1981	Graduation	Married	\$26,872.00	0	10/16/2013
20	10311	1969	Graduation	Married	\$4,429.00	1	10/1/2013
21	837	1977	Graduation	Married	\$54,809.00	1	9/12/2013
22	10521	1977	Graduation	Married	\$54,809.00	1	9/11/2013
23	10175	1958	PhD	Divorced	\$32,173.00	0	8/1/2013
24	1473	1960	Bachelor degree	Single	\$47,823.00	0	7/23/2013
25	2795	1958	Master	Single	\$30,523.00	2	7/3/2013
26	285	1954	Master	Together	\$38,634.00	0	5/28/2013
27	115	1966	Master	Single	\$43,456.00	0	3/26/2013
28	10470	1979	Master	Married	\$40,662.00	1	3/15/2013
29	4065	1976	PhD	Married	\$49,544.00	1	2/12/2013
30	10968	1969	Graduation	Single	\$57,731.00	0	11/23/2012
31	1985	1965	Master	Single	\$33,168.00	0	10/13/2012
32	5430	1956	Graduation	Together	\$54,450.00	1	9/14/2012
33	8432	1956	Graduation	Together	\$54,450.00	1	9/14/2012
34	453	1956	PhD	Widow	\$33,340.00	1	6/28/2014
35	9687	1975	Graduation	Single	\$73,170.00	0	5/31/2014
36	8830	1971	PhD	Divorced	\$63,808.00	1	3/30/2014
37	2054	1986	Graduation	Married	\$79,529.00	0	4/27/2014
38	5424	1972	PhD	Together	\$34,578.00	2	4/11/2014
39							

- **Eliminar las filas no válidas**

Y para eliminar una fila vacía le daremos a remove rows y remove blank rows

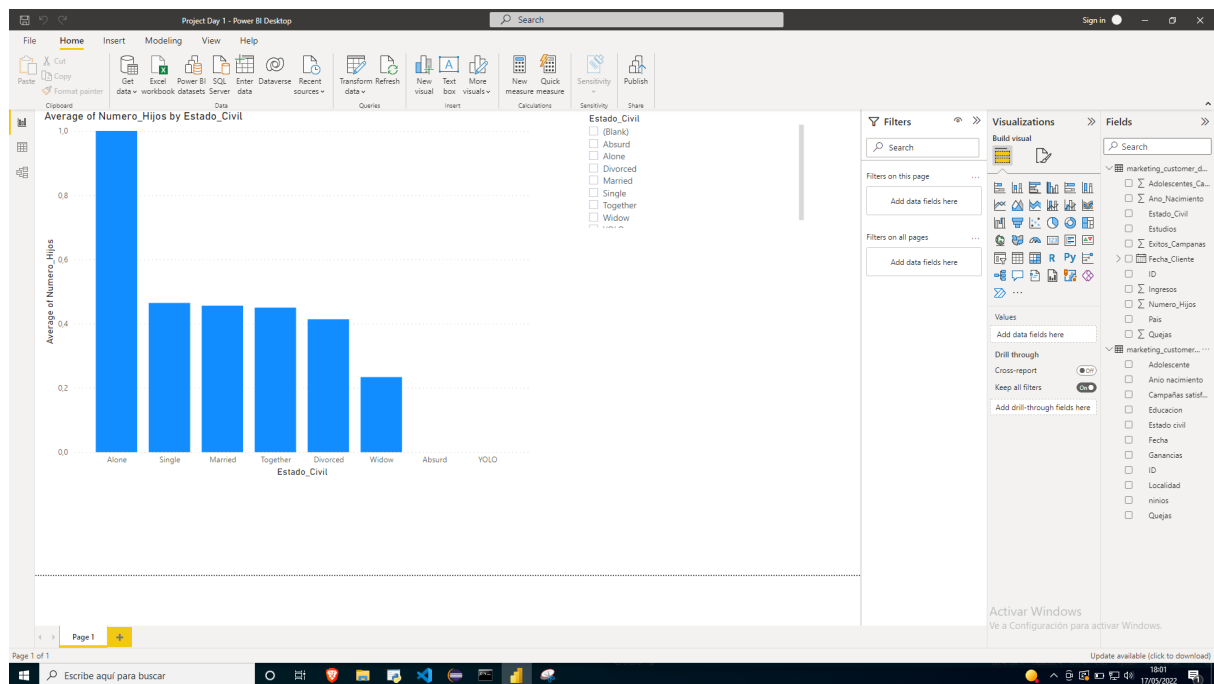
The screenshot shows the Power Query Editor interface. The 'Remove Rows' menu is open, displaying various options for row removal. The data table contains 33 rows and 8 columns. The 'Remove Rows' menu is open, showing options like 'Remove Top Rows', 'Remove Bottom Rows', 'Remove Alternate Rows', 'Remove Duplicates', 'Remove Blank Rows', 'Remove Errors', and 'Remove All Rows from this Table'.

Nos quedaria asi:

Le damos a Close and Apply y listo, tenemos la limpieza de datos hecha

The screenshot shows the Power Query Editor interface with the 'Table.SelectRows' formula applied. The formula bar displays: `Table.SelectRows(*Removed Columns*, each not List.IsEmpty(List.RemoveFromItems(Record.FieldValues(_), {"", null})))`. The data table is updated with the filtered rows, showing 33 rows and 8 columns. The 'Table.SelectRows' formula is applied to the data.

Nos muestra una gráfica con los datos



Pero podemos filtrar por el campo que queramos, en este caso nos mostrará la media de gente soltera que hay

