
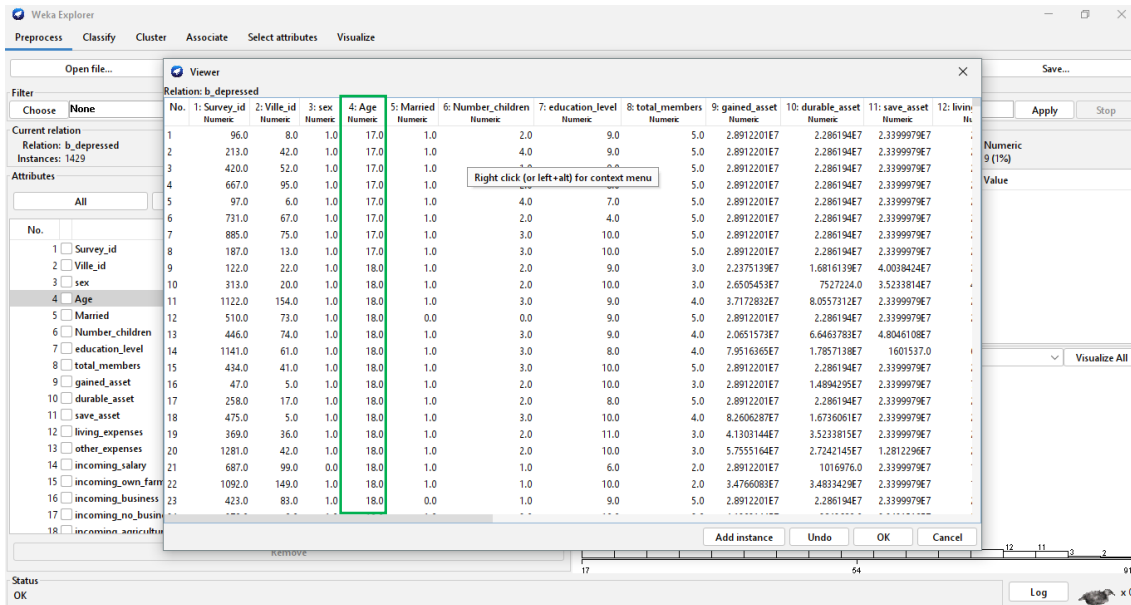


<b>UNIVERSIDAD MAYOR DE SAN ANDRÉS</b> <b>FACULTAD DE CIENCIAS PURAS Y NATURALES</b> <b>CARRERA DE INFORMÁTICA</b> <b>INF-354</b>		
<b>Nombre:</b> Mery Zulema Apaza Calderon	<b>CI:</b> 11068229 LP	
<b>Docente:</b> Moises Silva	<b>Paralelo:</b> A	<b>INICIAL A. P.</b>

## CUATRO TÉCNICAS DE PREPROCESAMIENTO

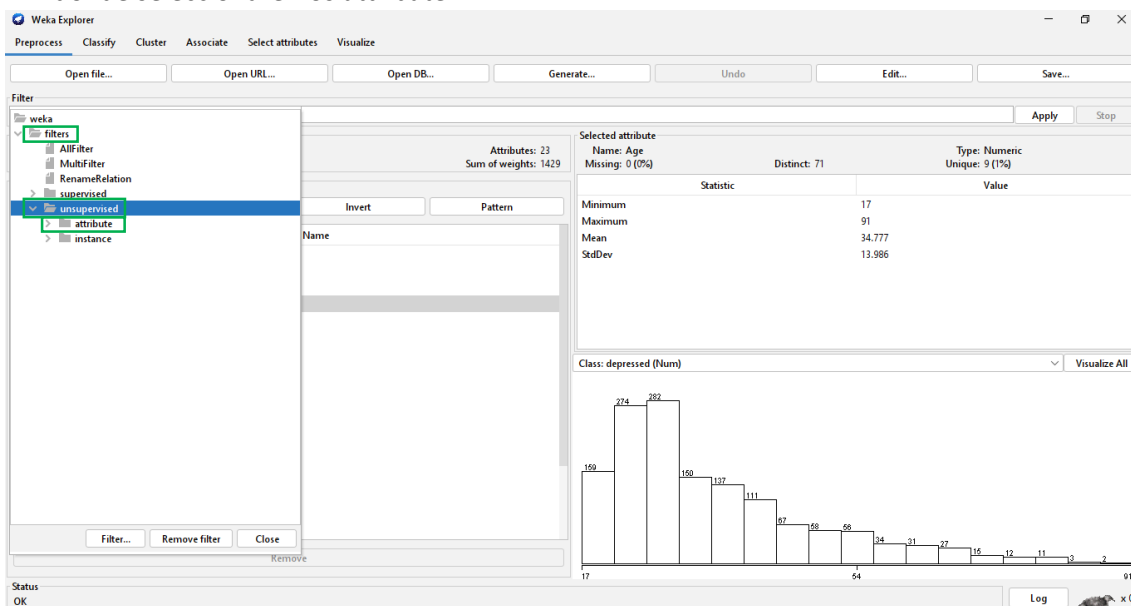
### 1. Discretización

- Para ver los cambios primero veremos los datos iniciales en la columna de AGE (Edad), cuyos datos son de tipo numérico.



No.	1: Survey_id	2: Ville_id	3: sex	4: Age	5: Married	6: Number_children	7: education_level	8: total_members	9: gained_asset	10: durable_asset	11: save_asset	12: living_expenses
1	96.0	8.0	1.0	17.0	1.0	2.0	9.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.3399979E7
2	213.0	42.0	1.0	17.0	1.0	4.0	9.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.3399979E7
3	420.0	52.0	1.0	17.0	1.0	4.0	9.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.3399979E7
4	667.0	95.0	1.0	17.0	1.0	4.0	9.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.3399979E7
5	97.0	6.0	1.0	17.0	1.0	4.0	7.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.3399979E7
6	731.0	67.0	1.0	17.0	1.0	2.0	4.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.3399979E7
7	885.0	75.0	1.0	17.0	1.0	3.0	10.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.3399979E7
8	187.0	13.0	1.0	17.0	1.0	3.0	10.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.3399979E7
9	122.0	22.0	1.0	18.0	1.0	2.0	9.0	3.0	2.2375139E7	1.6816139E7	4.0038424E7	4.0038424E7
10	313.0	20.0	1.0	18.0	1.0	2.0	10.0	3.0	2.6505453E7	7527224.0	3.5233814E7	3.5233814E7
11	1122.0	154.0	1.0	18.0	1.0	3.0	9.0	4.0	3.7172832E7	8.0557312E7	2.3399979E7	2.3399979E7
12	510.0	73.0	1.0	18.0	0.0	0.0	9.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.3399979E7
13	446.0	74.0	1.0	18.0	1.0	3.0	9.0	4.0	2.0651573E7	6.6463783E7	4.8046108E7	4.8046108E7
14	1141.0	61.0	1.0	18.0	1.0	3.0	8.0	4.0	7.9516365E7	1.7857138E7	1.601537.0	1.601537.0
15	434.0	41.0	1.0	18.0	1.0	3.0	10.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.3399979E7
16	47.0	5.0	1.0	18.0	1.0	2.0	10.0	3.0	2.8912201E7	1.4894295E7	2.3399979E7	2.3399979E7
17	258.0	17.0	1.0	18.0	1.0	2.0	8.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.3399979E7
18	475.0	5.0	1.0	18.0	1.0	3.0	10.0	4.0	8.2606287E7	1.6736061E7	2.3399979E7	2.3399979E7
19	369.0	36.0	1.0	18.0	1.0	2.0	11.0	3.0	4.1303144E7	3.5233815E7	2.3399979E7	2.3399979E7
20	1281.0	42.0	1.0	18.0	1.0	2.0	10.0	3.0	5.7555164E7	2.7242145E7	1.2812296E7	1.2812296E7
21	687.0	99.0	0.0	18.0	1.0	1.0	6.0	2.0	2.8912201E7	1016976.0	2.3399979E7	2.3399979E7
22	1092.0	149.0	1.0	18.0	1.0	1.0	10.0	2.0	3.4766083E7	3.4833429E7	2.3399979E7	2.3399979E7
23	423.0	83.0	1.0	18.0	0.0	1.0	9.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.3399979E7

- Para encontrar el filtro *Discretize* debemos ir al botón *Choose* en la parte superior, donde se desplegará un menú en donde seleccionaremos *filters*, para luego seleccionar *unsupervised*, donde seleccionaremos *attribute*.



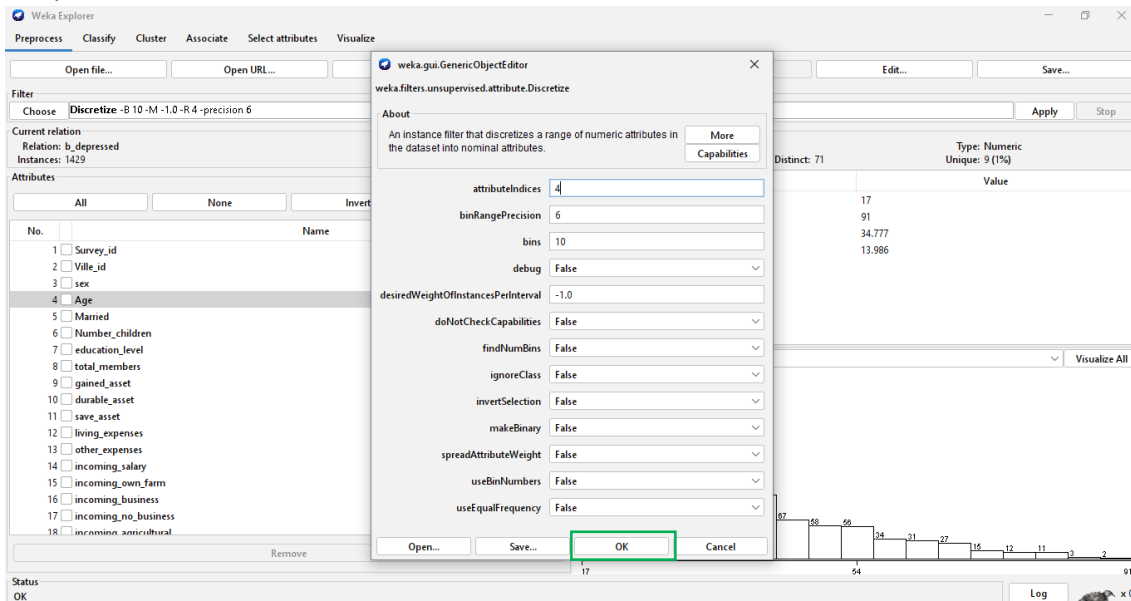
- Una vez seleccionado *attribute*, se desplegara un lista en donde seleccionaremos *Discretize*

The screenshot shows the Weka Explorer interface. In the 'Filter' panel on the left, the 'Discretize' filter is highlighted under the 'unsupervised' category. The main window displays the 'Attributes' list with 23 attributes and a 'Sum of weights: 1429'. The 'Selected attribute' panel shows 'Name: Age' with 'Missing: 0 (0%)', 'Distinct: 71', and 'Type: Numeric'. A histogram for 'Class: depressed (Num)' is visible at the bottom right, showing a distribution of values from 17 to 91.

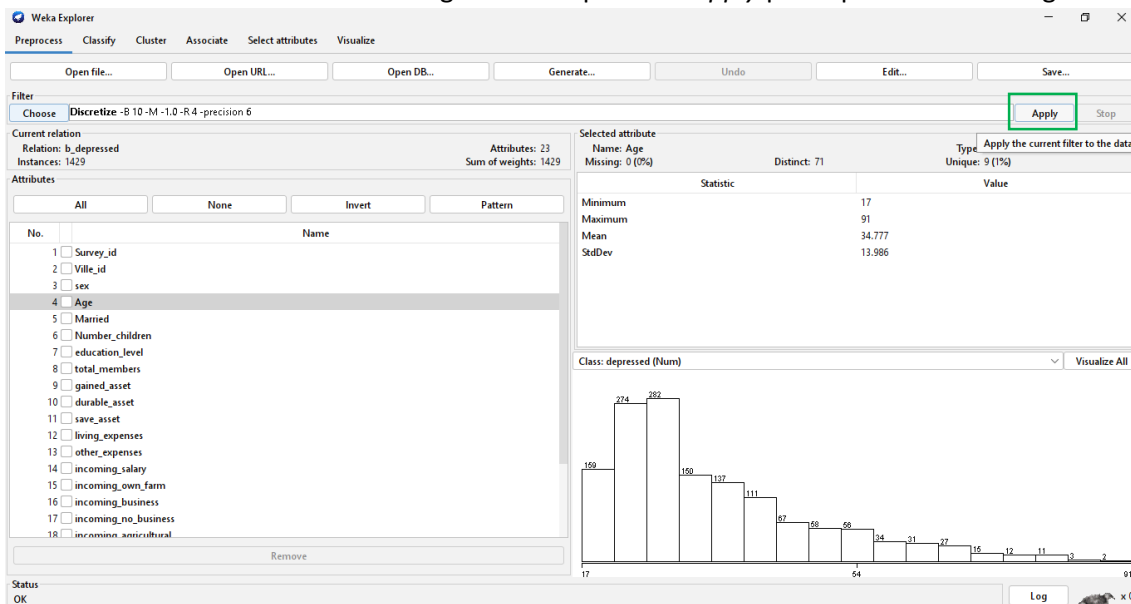
- Hecho eso, en la parte superior se podrá ver que se seleccionó el filtro *Discretize*, en donde haremos click sobre el mismo para configurarlo.

The screenshot shows the Weka Explorer interface with the 'Discretize' filter selected. The 'Filter' panel now shows 'Discretize - B 10 - M -1.0 -R first-last -precision 6'. The 'Attributes' list is expanded, showing 18 attributes. The 'Selected attribute' panel shows 'Name: Age' with 'Missing: 0 (0%)', 'Distinct: 71', and 'Type: Numeric'. A histogram for 'Class: depressed (Num)' is visible at the bottom right, showing a distribution of values from 17 to 91.

- Se abrirá un menú donde indicaremos la posición del atributo que deseamos modificar, en mi caso será el 4 (Age), con un rango de precisión 6 y la cantidad de contenedores 10. Una vez listo esto se presionan **OK**



- Finalmente lista la anterior configuración se presiona **Apply** para aplicar dicha configuración



- Y para ver estos cambios podemos ir a Editar, donde la columna Age ahora es de tipo Nominal, donde se han establecido los rango.

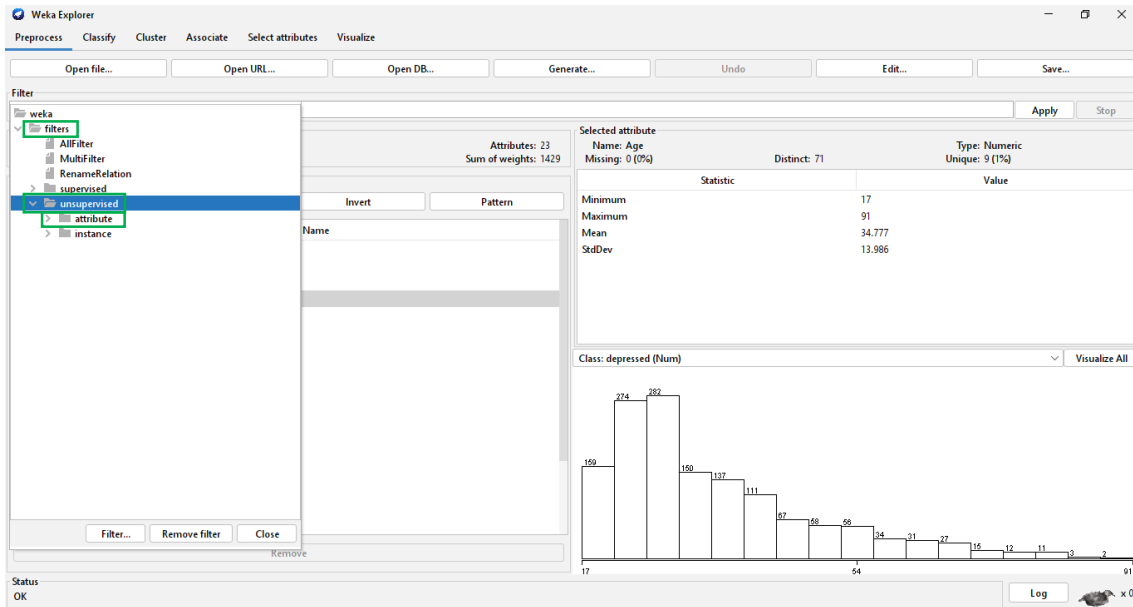
The screenshot shows the Weka Explorer interface with the 'Discretize' filter applied to the 'Age' attribute. The 'Age' attribute is now of type 'Nominal' with the following ranges: [24.4-31.8], [-inf-24.4], and [31.8-39.2]. The 'Filter' tab is active, and the 'Discretize' filter is selected. The 'Attributes' list on the left shows the 'Age' attribute is selected. The 'Current relation' is 'b\_depressed-weka.filters.unsupervised.attribute.Discretize-B10-M-1.0-R4-precision6'. The 'Instances' are 1429. The 'Attributes' list on the left shows the 'Age' attribute is selected. The 'Current relation' is 'b\_depressed-weka.filters.unsupervised.attribute.Discretize-B10-M-1.0-R4-precision6'. The 'Instances' are 1429. The 'Attributes' list on the left shows the 'Age' attribute is selected.

## 2. AddNoise

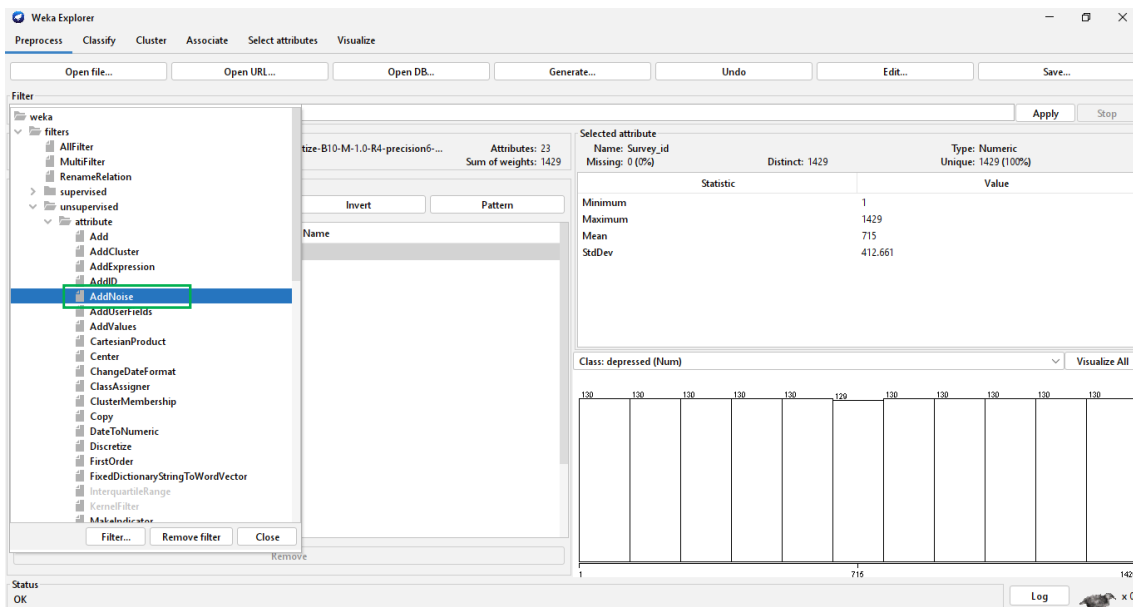
- Para ver los cambios primero veremos los datos iniciales en la columna de AGE (Edad), cuyos datos son de tipo Nominal.

The screenshot shows the Weka Explorer interface with the 'AddNoise' filter applied to the 'Age' attribute. The 'Age' attribute is now of type 'Nominal' with the following ranges: [24.4-31.8], [-inf-24.4], and [31.8-39.2]. The 'Filter' tab is active, and the 'AddNoise' filter is selected. The 'Attributes' list on the left shows the 'Age' attribute is selected. The 'Current relation' is 'b\_depressed-weka.filters.unsupervised.attribute.AddNoise-B10-M-1.0-R4-precision6'. The 'Instances' are 1429. The 'Attributes' list on the left shows the 'Age' attribute is selected.

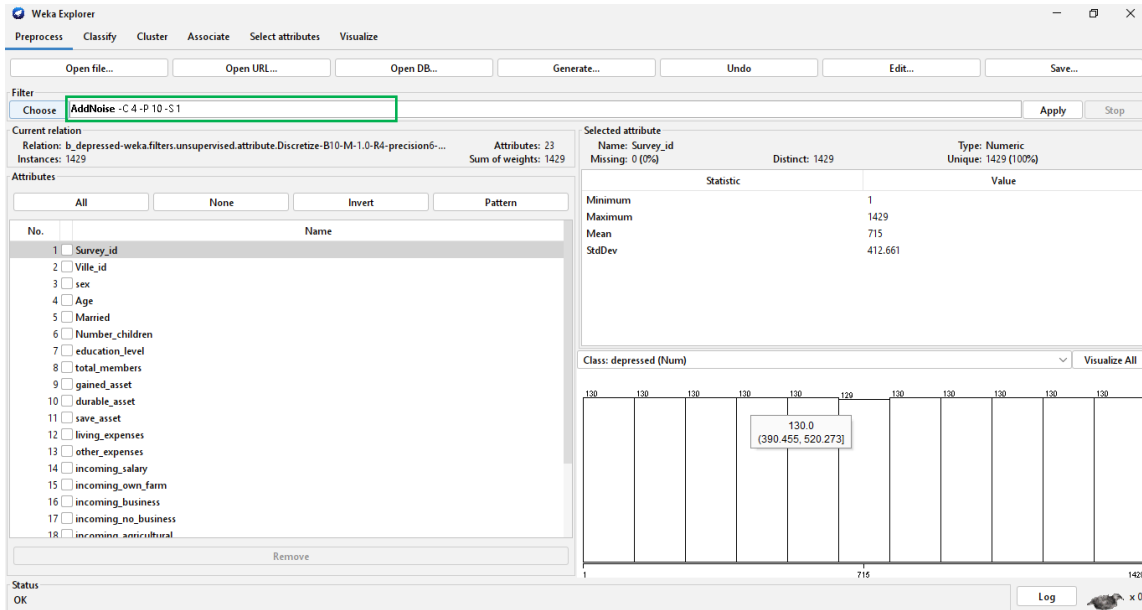
- Para encontrar el filtro *AddNoise* debemos ir al botón *Choose* en la parte superior, donde se desplegará un menú en donde seleccionaremos *filters*, para luego seleccionar *unsupervised*, donde seleccionaremos *attribute*.



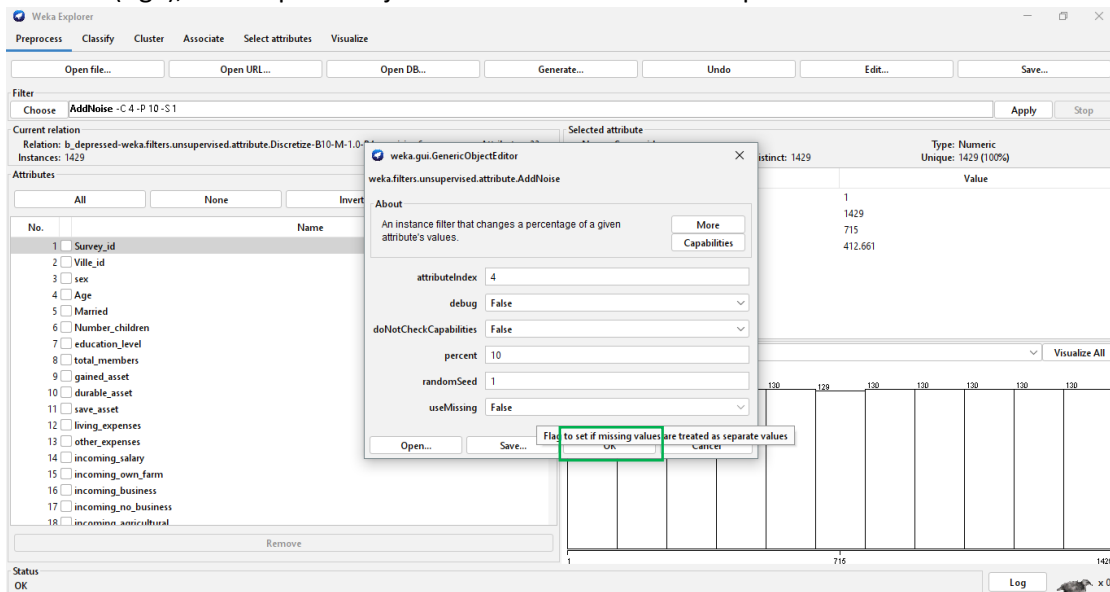
- Una vez seleccionado *attribute*, se desplegará un lista en donde seleccionaremos *AddNoise*



- Hecho eso, en la parte superior se podrá ver que se seleccionó el filtro *AddNoise*, en donde haremos click sobre el mismo para configurarlo.



- Se abrirá un menú donde indicaremos la posición del atributo que deseamos modificar, en mi caso será el 4 (Age), con un porcentaje de 10. Una vez listo esto se presionan *OK*



- Finalmente lista la anterior configuración se presiona *Apply* para aplicar dicha configuración

Weka Explorer

Preprocess Classify Cluster Associate Select attributes Visualize

Open file... Open URL... Open DB... Generate... Undo Edit... Save...

Filter: Choose **AddNoise -C 4 -P 10 -S 1** Apply Stop

Current relation: b\_depressed-weka.filters.unsupervised.attribute.Discretize-B10-M-1.0-R4-precision6-...  
Instances: 1429  
Attributes: 23  
Sum of weights: 1429

Attributes:

All None Invert Pattern

No.	Name
1	Survey_id
2	Ville_id
3	sex
4	Age
5	Married
6	Number_children
7	education_level
8	total_members
9	gained_asset
10	durable_asset
11	save_asset
12	living_expenses
13	other_expenses
14	incoming_salary
15	incoming_own_farm
16	incoming_business
17	incoming_no_business
18	incoming_agricultural

Remove

Status: OK

Log x 0

- Y para ver estos cambios podemos ir a Editar, donde en la columna Age, se han cambiado el 10 % de los valores.

Weka Explorer

Preprocess Classify Cluster Associate Select attributes Visualize

Open file... **Viewer** Save...

Filter: Choose **AddNoise -C 4 -P 10 -S 1** Apply Stop

Current relation: b\_depressed-weka.filters.unsupervised.attribute.Discretize-B10-M-1.0-R4-precision6-weka.filters.unsupervised.attribute.AddNoise-C4-P10-S1  
Instances: 1429

Attributes:

All

No.	1: Survey_id	2: Ville_id	3: sex	4: Age	5: Married	6: Number_children	7: education_level	8: total_members	9: gained_asset	10: durable_asset	11: save_asset	12
1	926.0	91.0	1.0	(24.4-31.8]	1.0	4.0	10.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	
2	747.0	57.0	1.0	(-inf-24.4]	1.0	3.0	8.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	
3	1190.0	115.0	1.0	(83.6-inf)	1.0	3.0	9.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	
4	1065.0	97.0	1.0	(24.4-31.8]	1.0	2.0	10.0	4.0	5.2667108E7	1.9698904E7	4.9647648E7	
5	806.0	42.0	0.0	(54-61.4]	0.0	4.0	10.0	6.0	8.2606287E7	1.7352654E7	2.3399979E7	
6	483.0	25.0	1.0	(31.8-39.2]	0.0	6.0	10.0	8.0	3.5937466E7	736707.0	2.3399979E7	
7	849.0	130.0	0.0	(46.6-54]	0.0	1.0	9.0	3.0	4.1031444E7	2.1925041E7	2.3399979E7	
8	1386.0	72.0	1.0	(-inf-24.4]	1.0	2.0	10.0	4.0	1.2013633E7	2.0323505E7	4.8046108E7	
9	990.0	195.0	1.0	(31.8-39.2]	1.0	7.0	9.0	9.0	1.1087568E7	2.5224208E7	8.0076851E7	
10	390.0	33.0	1.0	(24.4-31.8]	1.0	4.0	10.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	
11	540.0	52.0	1.0	(83.6-inf)	0.0	0.0	1.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	
12	557.0	93.0	1.0	(54-61.4]	0.0	2.0	9.0	3.0	1.018915.0	4.7245342E7	2.3399979E7	
13	1280.0	232.0	1.0	(31.8-39.2]	1.0	4.0	10.0	6.0	1.2390944E7	1.9186414E7	2.3399979E7	
14	1195.0	92.0	1.0	(24.4-31.8]	1.0	4.0	10.0	6.0	1.6521259E7	3.7155658E7	2.3399979E7	
15	603.0	100.0	1.0	(54-61.4]	1.0	0.0	12.0	2.0	9.3596368E7	2.1140288E7	5.925687.0	
16	729.0	54.0	1.0	(-inf-24.4]	1.0	2.0	10.0	5.0	1.108353.0	1.2219727E7	1.601537.0	
17	770.0	102.0	1.0	(24.4-31.8]	1.0	3.0	10.0	5.0	3.7172832E7	7.5432396E7	8.0076847E7	
18	76.0	15.0	1.0	(61.4-68.8]	1.0	5.0	12.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	
19	1374.0	267.0	1.0	(31.8-39.2]	1.0	2.0	7.0	4.0	2.8912201E7	2.286194E7	2.3399979E7	
20	379.0	22.0	1.0	(83.6-inf)	1.0	0.0	7.0	5.0	8.2606287E7	2.0419597E7	2.3399979E7	
21	1001.0	207.0	1.0	(39.2-46.6]	0.0	0.0	7.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	
22	1356.0	198.0	1.0	(54-61.4]	0.0	0.0	6.0	1.0	1.7142671E7	8.3440079E7	2.4023056E7	
23	137.0	9.0	1.0	(31.8-39.2]	1.0	3.0	10.0	5.0	2.8912201E7	1.905829.0	2.3399979E7	

Remove

Status: OK

Log x 0

### 3. ReplaceMissingValues

- Para ver los cambios primero veremos los datos iniciales con *Edit* en la columna de *education\_level* (Nivel de Educación), en donde previamente se han eliminado 4 datos para luego oprimir OK.

Weka Explorer - Viewer

Filter: Choose **None** Relation: b\_depressed Instances: 1429

No.	Name	1: Survey_id	2: Ville_id	3: sex	4: Age	5: Married	6: Number_children	7: education_level	8: total_members	9: gained_asset	10: durable_asset	11: save_asset	12: living_expens
1	Survey_id	925.0	91.0	1.0	28.0	1.0	4.0	10.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.669228E7
2	Ville_id	747.0	57.0	1.0	23.0	1.0	3.0	8.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.669228E7
3	sex	1190.0	115.0	1.0	22.0	1.0	3.0	9.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.669228E7
4	Age	1065.0	97.0	1.0	27.0	1.0	2.0	10.0	4.0	5.2667108E7	1.9698904E7	4.9647648E7	3977
5	Married	806.0	42.0	0.0	59.0	0.0	4.0	10.0	6.0	8.2606287E7	1.7352654E7	2.3399979E7	8.087761
6	Number_children	483.0	25.0	1.0	35.0	1.0	6.0	10.0	8.0	3.5937466E7	736707.0	2.3399979E7	3.059611
7	education_level	849.0	130.0	0.0	34.0	0.0	1.0	10.0	3.0	4.1303144E7	2.1925041E7	2.3399979E7	6.67307E
8	total_members	1386.0	72.0	1.0	21.0	1.0	2.0	10.0	4.0	1.2013633E7	2.0323505E7	4.8046108E7	8.007684
9	gained_asset	930.0	195.0	1.0	32.0	1.0	7.0	9.0	9.0	1.1087568E7	2.5224208E7	8.0076851E7	3.016228
10	durable_asset	390.0	33.0	1.0	29.0	1.0	4.0	10.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.669228E7
11	save_asset	540.0	52.0	1.0	84.0	0.0	0.0	1.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.669228E7
12	living_expens	557.0	93.0	1.0	59.0	0.0	2.0	9.0	3.0	1018915.0	4.7245342E7	2.3399979E7	2629
13	other_expenses	1280.0	232.0	1.0	38.0	1.0	4.0	10.0	6.0	1.2390944E7	1.9186414E7	2.3399979E7	1.081031
14	incoming_salary	1195.0	92.0	1.0	27.0	1.0	4.0	10.0	6.0	1.6521259E7	3.7155658E7	2.3399979E7	2.12203E
15	incoming_own_farm	603.0	100.0	1.0	56.0	1.0	0.0	10.0	2.0	9.3596368E7	2.1140288E7	5925687.0	3.45665C
16	incoming_business	729.0	54.0	1.0	24.0	1.0	2.0	10.0	5.0	1.108353.0	1.2219727E7	1601537.0	3.81699E
17	incoming_agricultural	770.0	102.0	1.0	25.0	1.0	3.0	10.0	5.0	3.7172832E7	7.5432396E7	8.0076847E7	4.070571
18	farm_expenses	76.0	15.0	1.0	44.0	1.0	5.0	12.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.669228E7
19	labor_primary	1374.0	267.0	1.0	32.0	1.0	4.0	9.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.669228E7
20	last_investment	379.0	22.0	1.0	26.0	1.0	2.0	10.0	4.0	8.2606287E7	2.0419597E7	2.3399979E7	2.53576E
21	no_last_investment	1001.0	207.0	1.0	40.0	0.0	0.0	7.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.669228E7
22	incoming_salary	1356.0	198.0	1.0	55.0	0.0	0.0	6.0	1.0	1.7142671E7	8.3440079E7	2.4023056E7	1.649581
23	incoming_own_farm	137.0	9.0	1.0	34.0	1.0	3.0	10.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	4.938072
24	incoming_business	840.0	102.0	1.0	43.0	1.0	4.0	10.0	9.0	1.2390944E7	1.8978214E7	8.0076847E7	1.868495
25	incoming_agricultural	309.0	25.0	1.0	51.0	1.0	2.0	10.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.669228E7
26	farm_expenses	1078.0	164.0	1.0	38.0	1.0	3.0	10.0	3.0	7.5696296E7	4.6047271E7	2.3399979E7	3.13844E
27	labor_primary	519.0	50.0	1.0	53.0	1.0	4.0	9.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.669228E7
28	last_investment	1156.0	69.0	1.0	26.0	1.0	3.0	10.0	5.0	2.7146051E7	2.3399979E7	2.3399979E7	1.548151
29	no_last_investment	1324.0	281.0	1.0	23.0	1.0	2.0	8.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.669228E7

Buttons: Add instance, Undo, **OK**, Cancel

- Para encontrar el filtro *ReplaceMissingValues* debemos ir al botón *Choose* en la parte superior, donde se desplegará un menú en donde seleccionaremos *filters*, para luego seleccionar *unsupervised*, donde seleccionaremos *attribute*.

Weka Explorer - Filter

Filter: **filters**

- unsupervised
  - attribute**

Buttons: Filter..., Remove filter, Close

Attributes: 23 Sum of weights: 1429

Selected attribute: Name: Survey\_id Distinct: 1429 Type: Numeric Missing: 0 (0%)

Statistic	Value
Minimum	1
Maximum	1429
Mean	715
StdDev	412.661

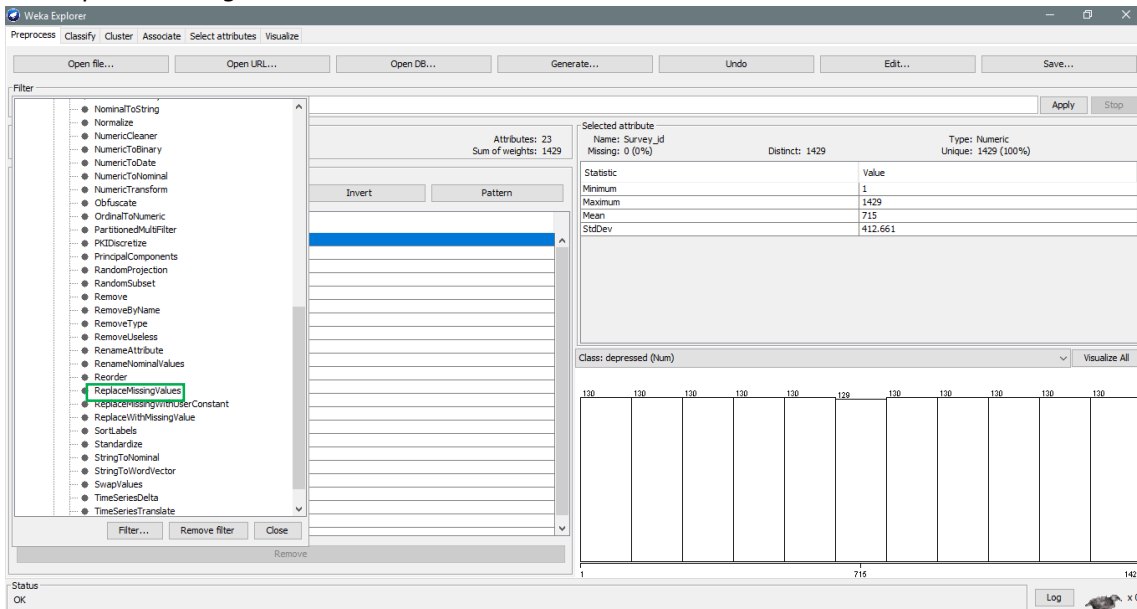
Class: depressed (Num)

Visualize All

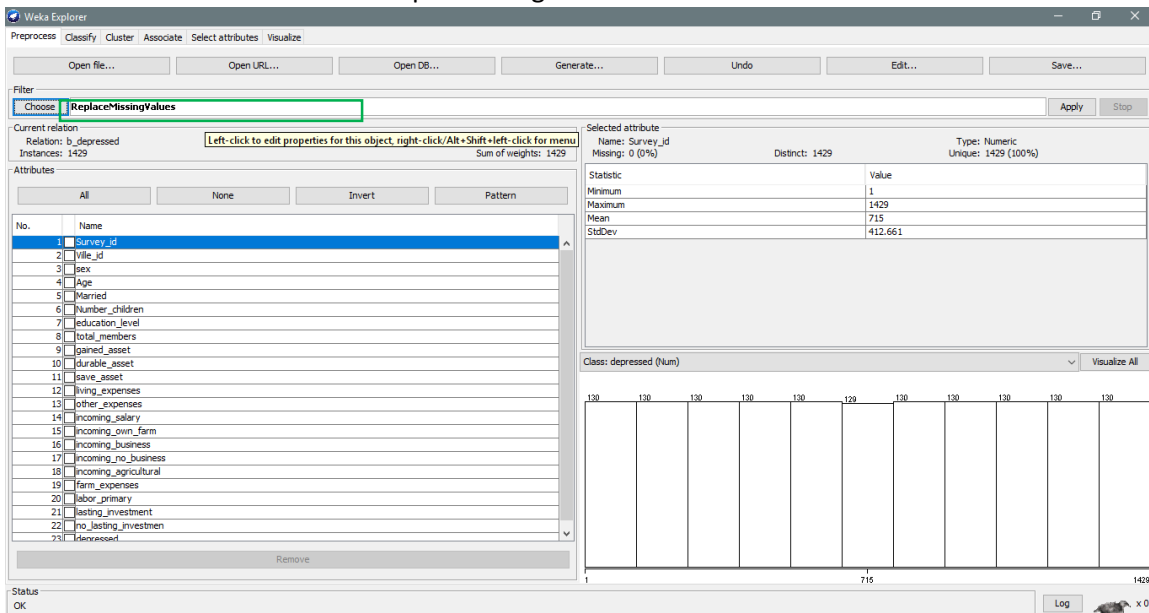
Status: OK



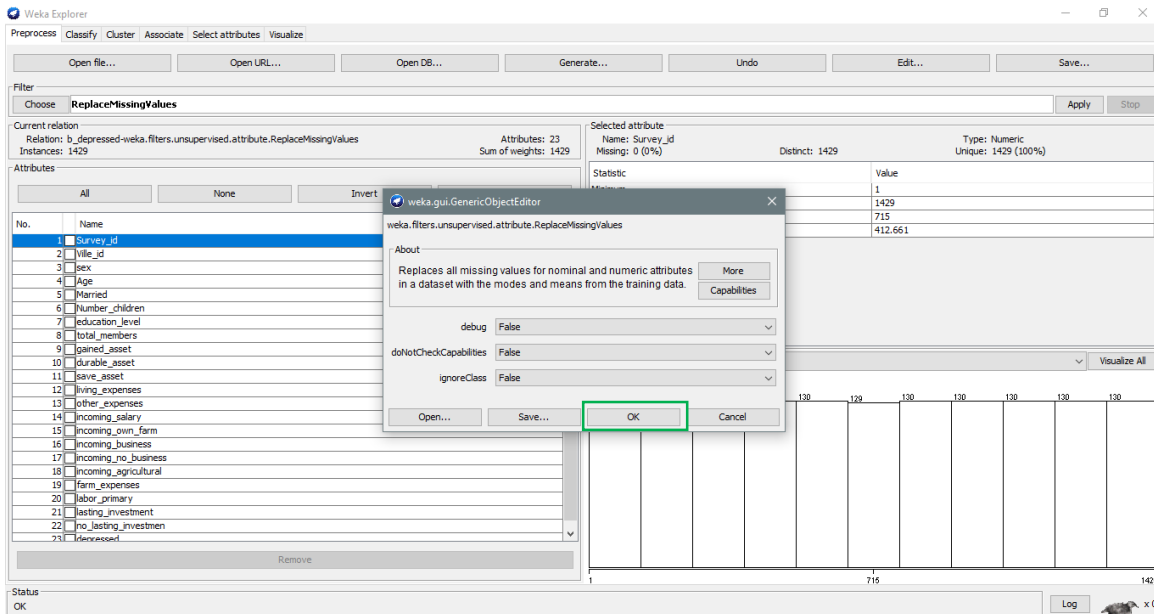
- Una vez seleccionado *attribute*, se desplegara un lista en donde seleccionaremos *ReplaceMissingValues*



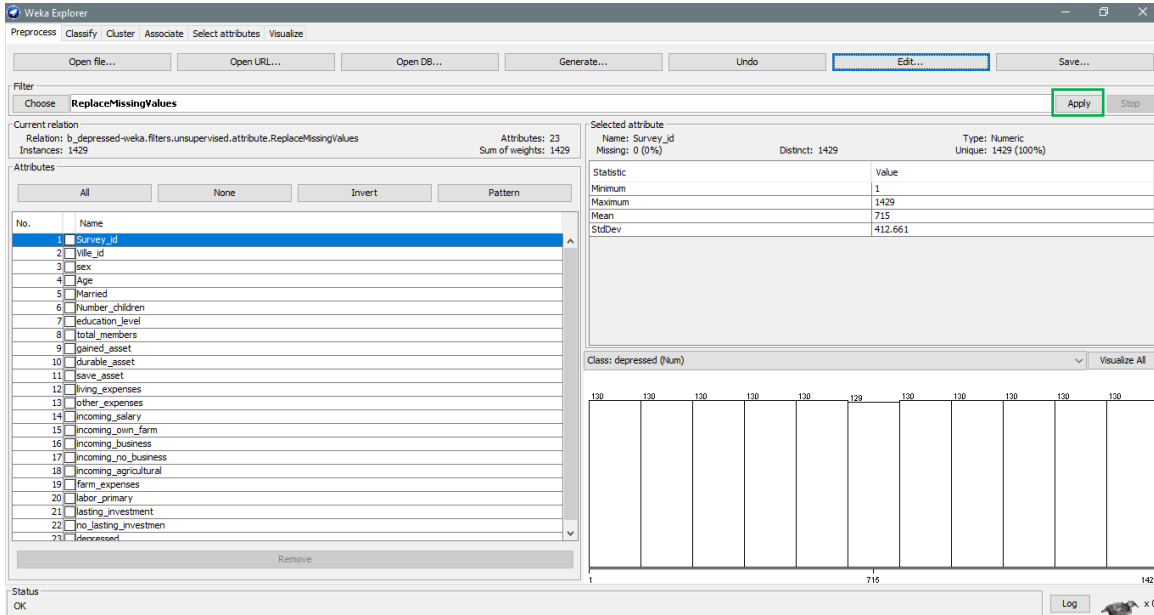
- Hecho eso, en la parte superior se podrá ver que se seleccionó el filtro *Discretize*, en donde haremos click sobre el mismo para configurarlo.



- Se abrirá un menú donde y presionaremos *OK*



- Finalmente lista la anterior configuración se presiona *Apply* para aplicar dicha configuración



- Y para ver estos cambios podemos ir a Editar, donde en la columna `education_level` ahora hay valores en donde se habían eliminado en un principio.

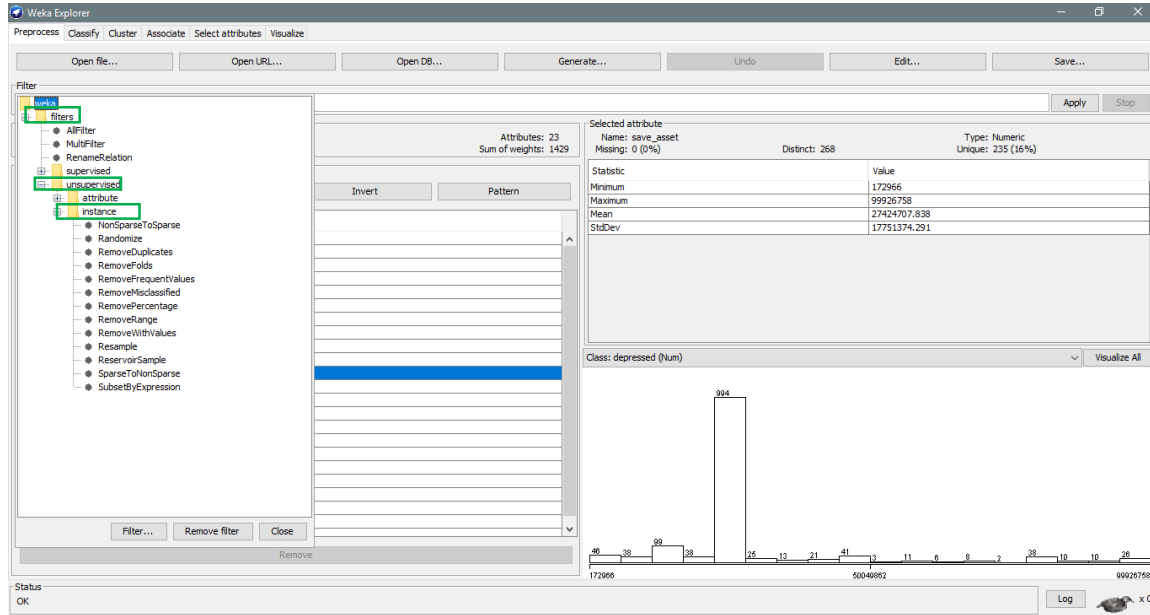
The screenshot shows the Weka Explorer interface. The 'Viewer' window displays a table with 22 columns and 1429 rows. The columns are: No., Name, 1: Survey\_id, 2: Ville\_id, 3: sex, 4: Age, 5: Married, 6: Number\_children, 7: education\_level, 8: total\_members, 9: gained\_asset, 10: durable\_asset, 11: save\_asset, 12: living\_expenses. The 'education\_level' column has values like 4.0, 10.0, 8.0, etc. The 'save\_asset' column has values like 2.8912201E7, 2.286194E7, etc. The 'living\_expenses' column has values like 2.669228, 2.669228, etc.

#### 4. Resample

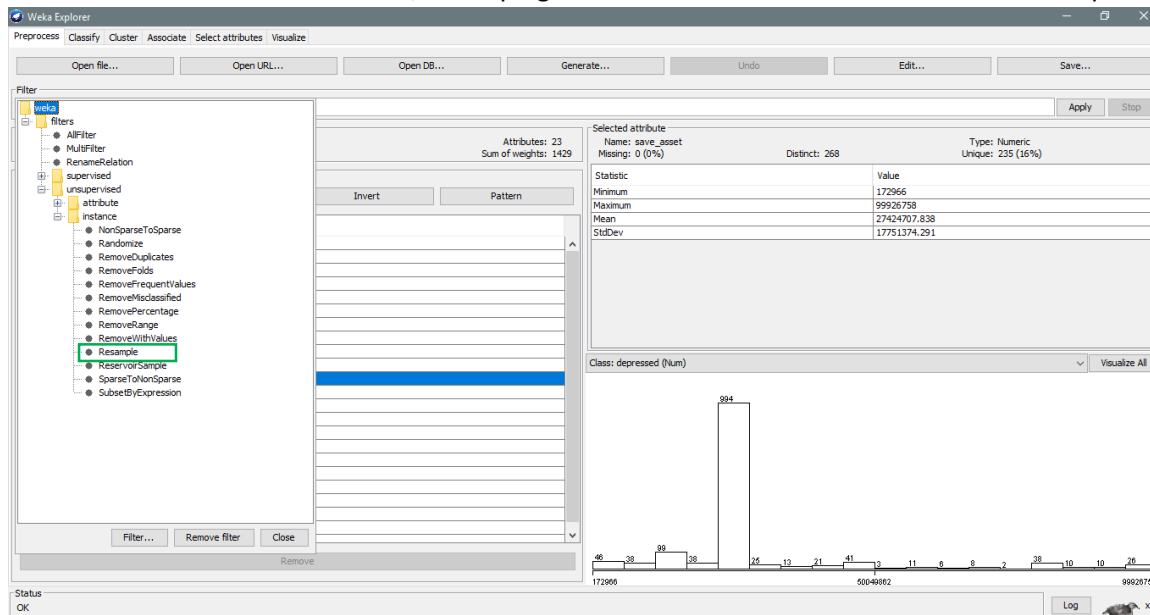
- Para ver los cambios primero veremos los datos iniciales con *Edit* en donde se observa una enorme cantidad de datos

The screenshot shows the Weka Explorer interface. The 'Viewer' window displays a table with 22 columns and 1429 rows. The columns are: No., Name, 1: Survey\_id, 2: Ville\_id, 3: sex, 4: Age, 5: Married, 6: Number\_children, 7: education\_level, 8: total\_members, 9: gained\_asset, 10: durable\_asset, 11: save\_asset, 12: living\_expenses. The 'education\_level' column has values like 4.0, 10.0, 8.0, etc. The 'save\_asset' column has values like 2.8912201E7, 2.286194E7, etc. The 'living\_expenses' column has values like 2.669228, 2.669228, etc.

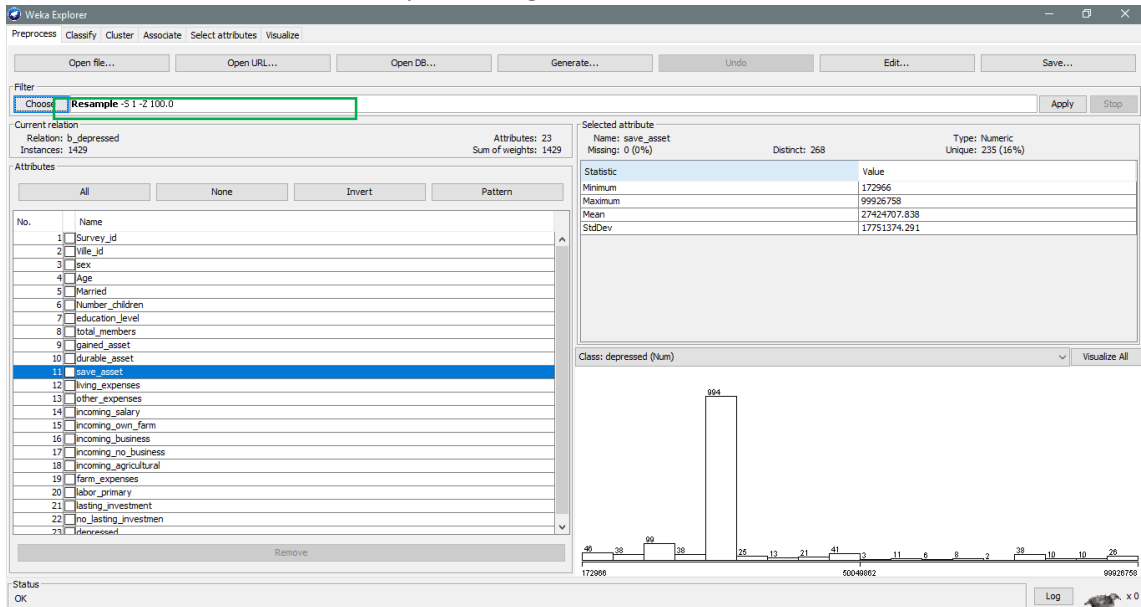
- Para encontrar el filtro *Resample* debemos ir al botón *Choose* en la parte superior, donde se desplegará un menú en donde seleccionaremos *filters*, para luego seleccionar *unsupervised*, donde seleccionaremos *instance*.



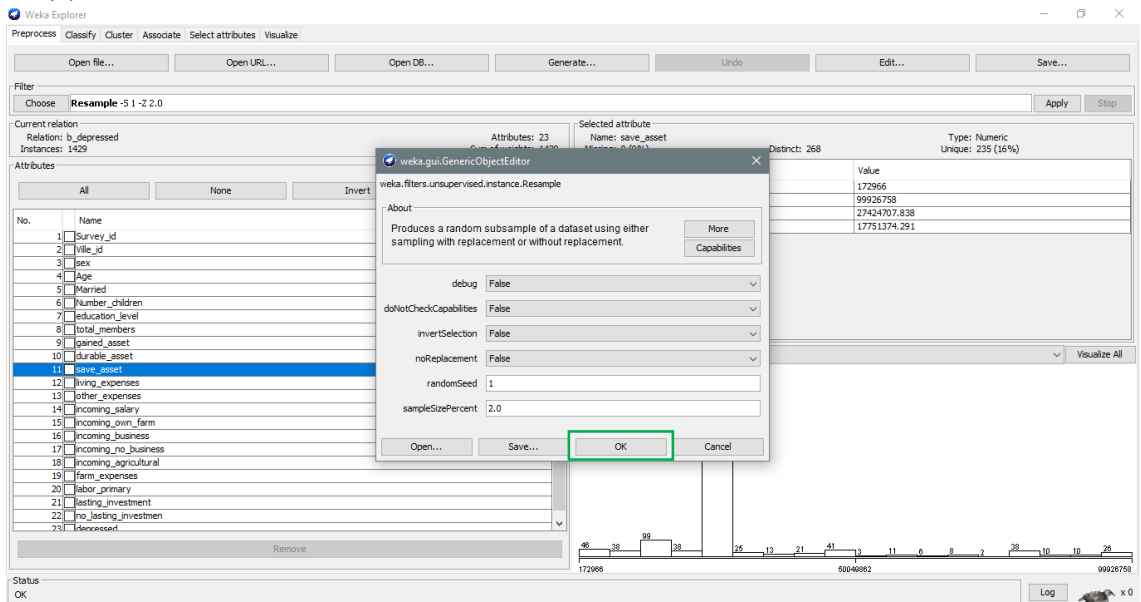
- Una vez seleccionado *instance*, se desplegará una lista en donde seleccionaremos *Resample*



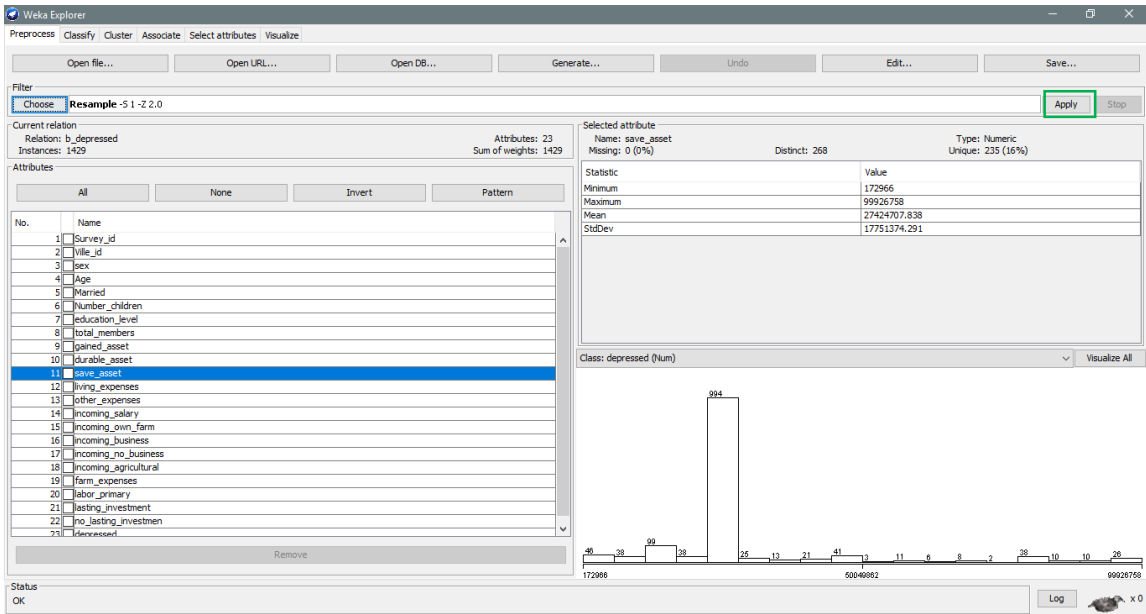
- Hecho eso, en la parte superior se podrá ver que se seleccionó el filtro *Resample*, en donde haremos click sobre el mismo para configurarlo.



- Se abrirá un menú donde pondremos en sampleSizePercent que será el 2% de los datos originales y presionaremos *OK*



- Finalmente lista la anterior configuración se presiona *Apply* para aplicar dicha configuración



- Y para ver estos cambios podemos ir a Editar, donde ahora hay solo 28 valores.

The screenshot shows the Weka Explorer interface with the 'Viewer' window open. The table displays 28 instances for the 'b\_depressed' relation. The columns are: No., Name, 1: Survey\_id, 2: Ville\_id, 3: sex, 4: Age, 5: Married, 6: Number\_children, 7: education\_level, 8: total\_members, 9: gained\_asset, 10: durable\_asset, 11: save\_asset, 12: living\_expenses.

No.	Name	1: Survey_id	2: Ville_id	3: sex	4: Age	5: Married	6: Number_children	7: education_level	8: total_members	9: gained_asset	10: durable_asset	11: save_asset	12: living_expenses
1	Survey_id	666.0	16.0	1.0	29.0	0.0	3.0	9.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.6692283E7
2	Ville_id	492.0	5.0	1.0	22.0	1.0	3.0	8.0	5.0	1753663.0	8.007689E7	8.6296158E7	1.5081141E7
3	sex	192.0	24.0	1.0	49.0	0.0	1.0	11.0	2.0	2.8912201E7	3.4272891E7	2.3399979E7	4.0038404E7
4	Age	396.0	27.0	1.0	66.0	1.0	0.0	3.0	3.0	2.4095888E7	1.1290836E7	2.3399979E7	1.0543453E7
5	Married	567.0	29.0	1.0	24.0	1.0	3.0	10.0	5.0	2.8912201E7	8.3279922E7	1.6015369E7	3.7903044E7
6	Number_children	1178.0	198.0	1.0	26.0	1.0	2.0	8.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.6692283E7
7	education_level	1290.0	15.0	1.0	23.0	0.0	3.0	8.0	4.0	2.0651573E7	2.6265207E7	2.3399979E7	3.3363355E7
8	total_members	103.0	4.0	1.0	20.0	1.0	3.0	16.0	5.0	6.2615582E7	1.3163032E7	1.6015369E7	3203074.0
9	gained_asset	438.0	73.0	1.0	48.0	1.0	3.0	9.0	7.0	6712542.0	1.0073668E7	2.3399979E7	4.5376883E7
10	durable_asset	927.0	152.0	1.0	36.0	0.0	4.0	9.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.6692283E7
11	save_asset	744.0	8.0	1.0	35.0	1.0	3.0	8.0	5.0	3098974.0	2.286194E7	1.6491638E7	2.2154596E7
12	living_expenses	660.0	54.0	1.0	31.0	0.0	3.0	10.0	5.0	3.6350497E7	4.4843036E7	2.3399979E7	1.4019449E7
13	other_expenses	844.0	173.0	1.0	20.0	1.0	3.0	9.0	7.0	5714122.0	2033952.0	3.2030739E7	1.8017291E7
14	incoming_salary	718.0	148.0	1.0	22.0	1.0	2.0	10.0	4.0	8.9686073E7	2.286194E7	4.9544693E7	2.4023058E7
15	incoming_own_farm	797.0	160.0	1.0	32.0	1.0	4.0	12.0	6.0	5714122.0	1.6207555E7	2.3399979E7	6.6063399E7
16	incoming_business	186.0	6.0	1.0	32.0	0.0	3.0	7.0	5.0	2.8912201E7	8.7283768E7	3.2030739E7	1.0863759E7
17	incoming_no_business	1189.0	16.0	1.0	25.0	1.0	1.0	10.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.6692283E7
18	farm_expenses	307.0	12.0	1.0	24.0	1.0	3.0	11.0	5.0	4.1303144E7	1.5294678E7	2.3399979E7	4.0038404E7
19	labor_primary	731.0	67.0	1.0	17.0	1.0	2.0	4.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.6692283E7
20	lasting_investment	1074.0	97.0	1.0	77.0	0.0	0.0	4.0	1.0	2.8912201E7	2.286194E7	1.0118281E7	1.6015369E7
21	no_lasting_investment	279.0	9.0	1.0	18.0	1.0	2.0	10.0	3.0	4.1303144E7	3843689.0	2.2421518E7	3.8703811E7
22	deceased	1116.0	67.0	1.0	39.0	1.0	8.0	10.0	10.0	2.0651573E7	2.0707874E7	9.609224E7	1414691.0
23		1157.0	62.0	1.0	20.0	1.0	2.0	10.0	4.0	6.4061478E7	2.286194E7	1.4080695E7	2.0553038E7
24		119.0	19.0	1.0	27.0	1.0	5.0	10.0	7.0	1.0151259E7	1.3532988E7	2.3399979E7	1.2011527E7
25		385.0	24.0	1.0	22.0	1.0	2.0	10.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.6692283E7
26		679.0	50.0	1.0	55.0	1.0	4.0	1.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.6692283E7
27		784.0	70.0	1.0	23.0	1.0	5.0	6.0	5.0	2.8912201E7	2.286194E7	2.3399979E7	2.6692283E7
28		1006.0	206.0	1.0	37.0	0.0	4.0	9.0	5.0	1.6729337E7	1.3693141E7	4.8046112E7	1.3012121E7