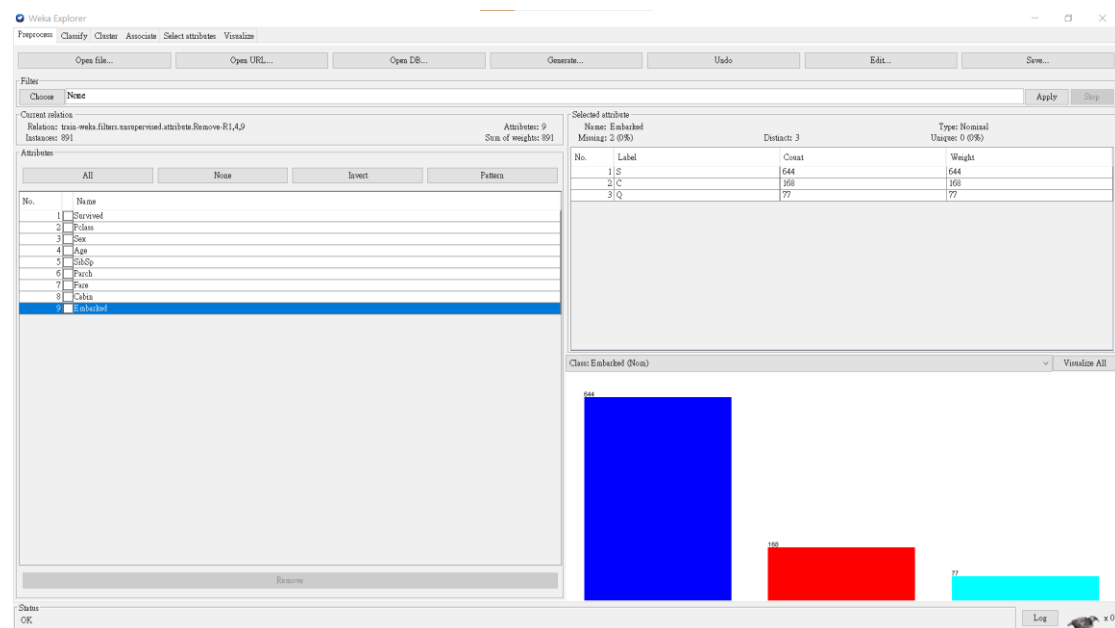
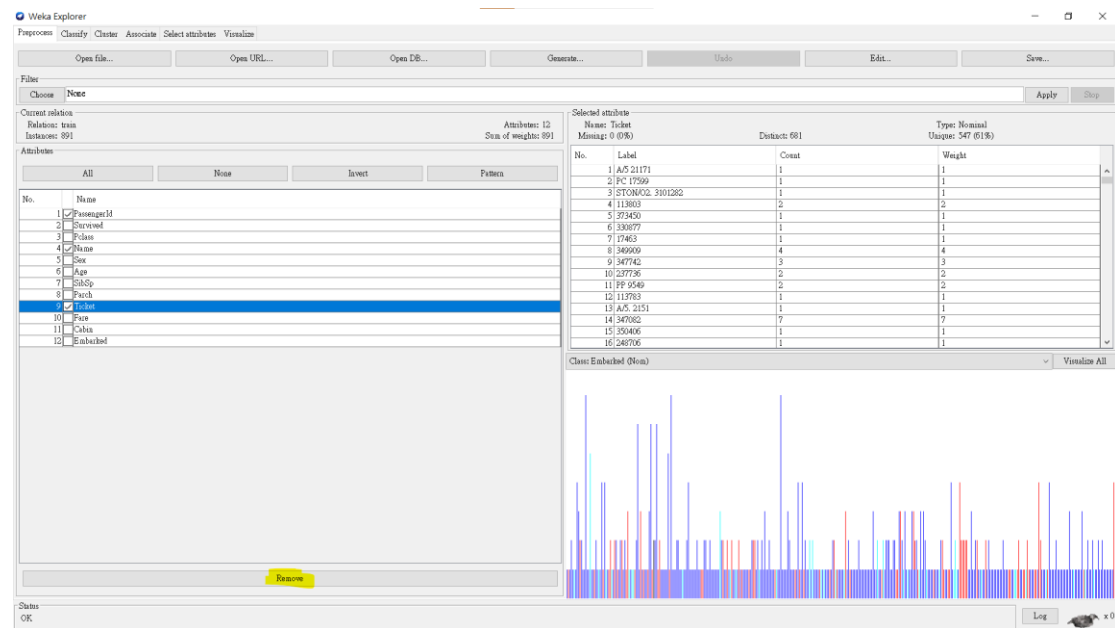
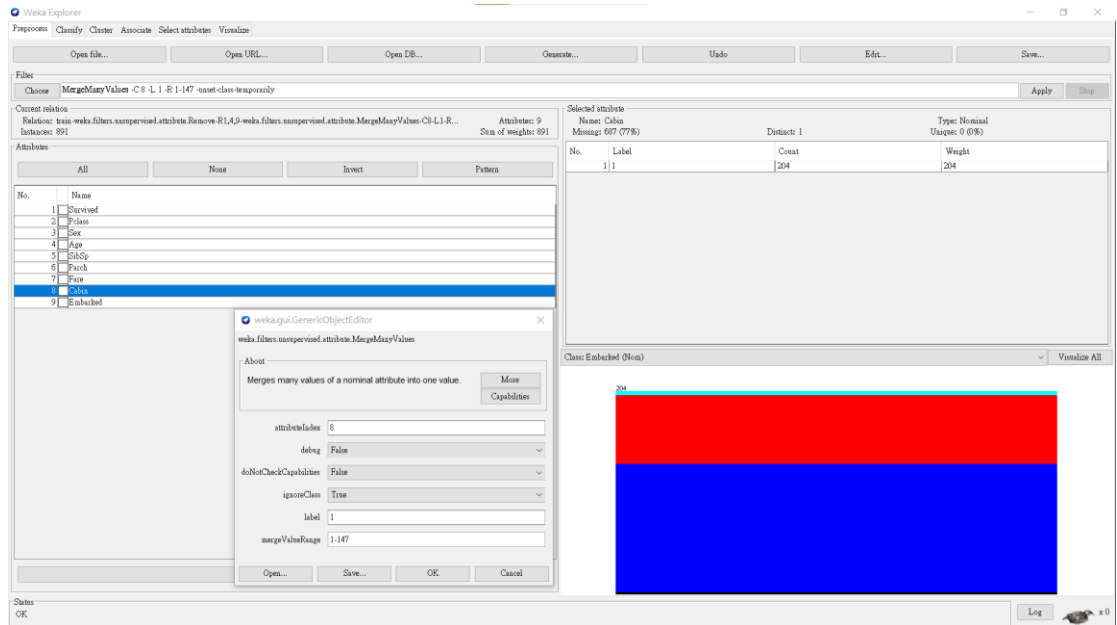


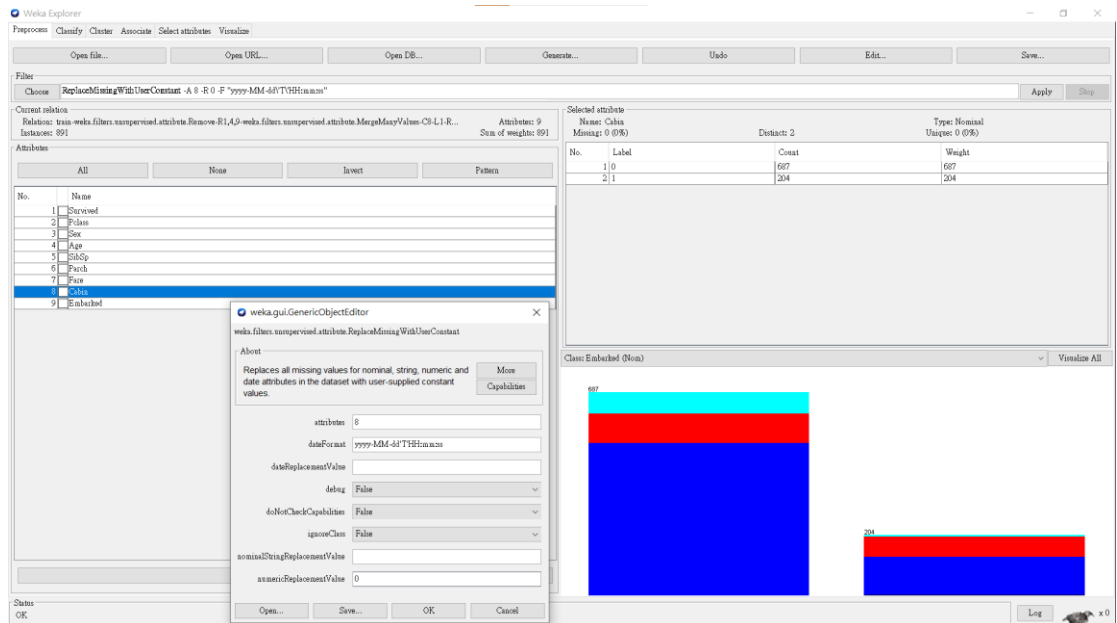
1.1 載入 train.arff 後，選擇 PassengerId、Name、Ticket 點 remove



1.2 使用 MergeManyValues 將 Cabin 內有值的 No.1~147 用 1 取代，如下圖



再用 ReplaceMissingWithUserConstant 將空值取代為 0，如下圖

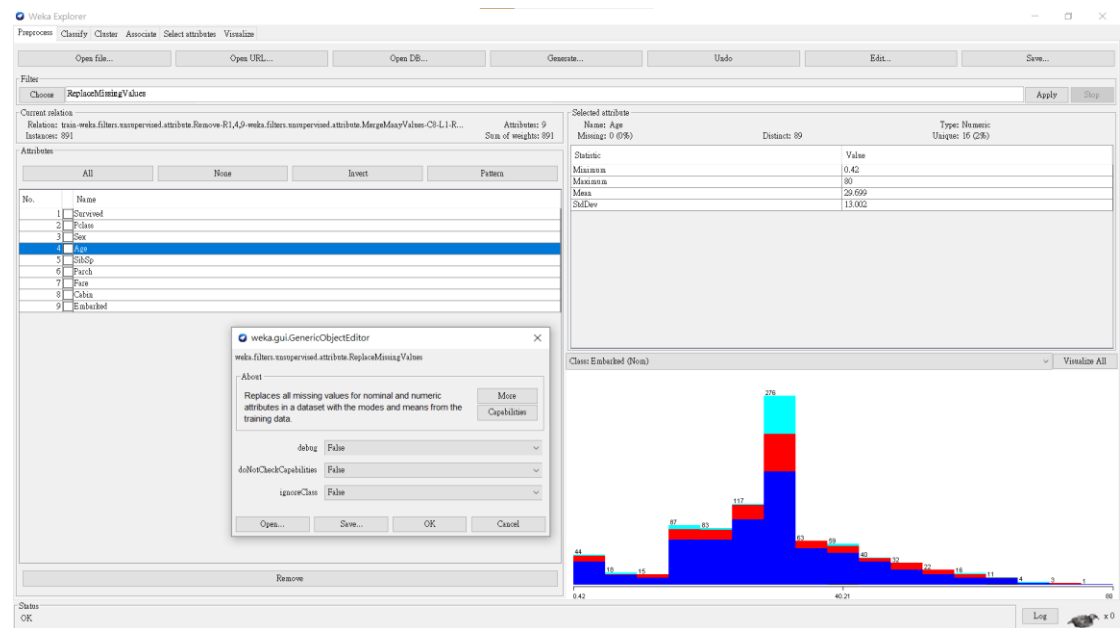


Viewer

Relation: train-weka.filters.unsupervised.attribute.Remove.R1.49-weka.filters.unsupervised.attribute.MergeManyValues.C1.L1.R...

No.	1: Survived	2: Pclass	3: Sex	4: Age	5: SibSp	6: Parch	7: Fare	8: Cabin	9: Embarked
	Numeric	Numeric	Nominal	Numeric	Numeric	Numeric	Numeric	Nominal	Nominal
1	0.0	3.0	male	22.0	1.0	0.0	7.25	0	S
2	1.0	3.0	female	26.0	0.0	0.0	7.925	0	S
3	0.0	3.0	male	35.0	0.0	0.0	8.05	0	S
4	0.0	3.0	male		0.0	0.0	8.4533	0	Q
5	0.0	3.0	male	2.0	3.0	1.0	21.075	0	S
6	1.0	3.0	female	27.0	0.0	2.0	11.1333	0	S
7	1.0	2.0	female	14.0	1.0	0.0	30.0708	0	C
8	0.0	3.0	male	20.0	0.0	0.0	8.05	0	S
9	0.0	3.0	male	39.0	1.0	5.0	31.275	0	S
10	0.0	3.0	female	14.0	0.0	0.0	7.8542	0	S
11	1.0	2.0	female	55.0	0.0	0.0	16.0	0	S
12	0.0	3.0	male	2.0	4.0	1.0	29.125	0	Q
13	1.0	2.0	male		0.0	0.0	13.0	0	S
14	0.0	3.0	female	31.0	1.0	0.0	18.0	0	S
15	1.0	3.0	female		0.0	0.0	7.225	0	C
16	0.0	2.0	male	35.0	0.0	0.0	26.0	0	S
17	1.0	3.0	female	15.0	0.0	0.0	8.0292	0	Q
18	0.0	3.0	female	8.0	3.0	1.0	21.075	0	S
19	1.0	3.0	female	38.0	1.0	5.0	31.3875	0	S
20	0.0	3.0	male		0.0	0.0	7.225	0	C
21	1.0	3.0	female		0.0	0.0	7.8792	0	Q
22	0.0	3.0	male		0.0	0.0	7.8538	0	S
23	0.0	1.0	male	40.0	0.0	0.0	27.7283	0	C
24	1.0	3.0	female		0.0	0.0	7.75	0	Q
25	0.0	2.0	male	66.0	0.0	0.0	10.5	0	S
26	0.0	1.0	male	28.0	1.0	0.0	82.1708	0	C
27	0.0	1.0	male	42.0	1.0	0.0	52.0	0	S
28	1.0	3.0	male		0.0	0.0	7.2252	0	C
29	0.0	3.0	male	21.0	0.0	0.0	8.05	0	S
30	0.0	3.0	female	18.0	2.0	0.0	18.0	0	S

1.3 直接使用 ReplaceMissingValues 這個函數，將平均值 29.699 帶入全部空值

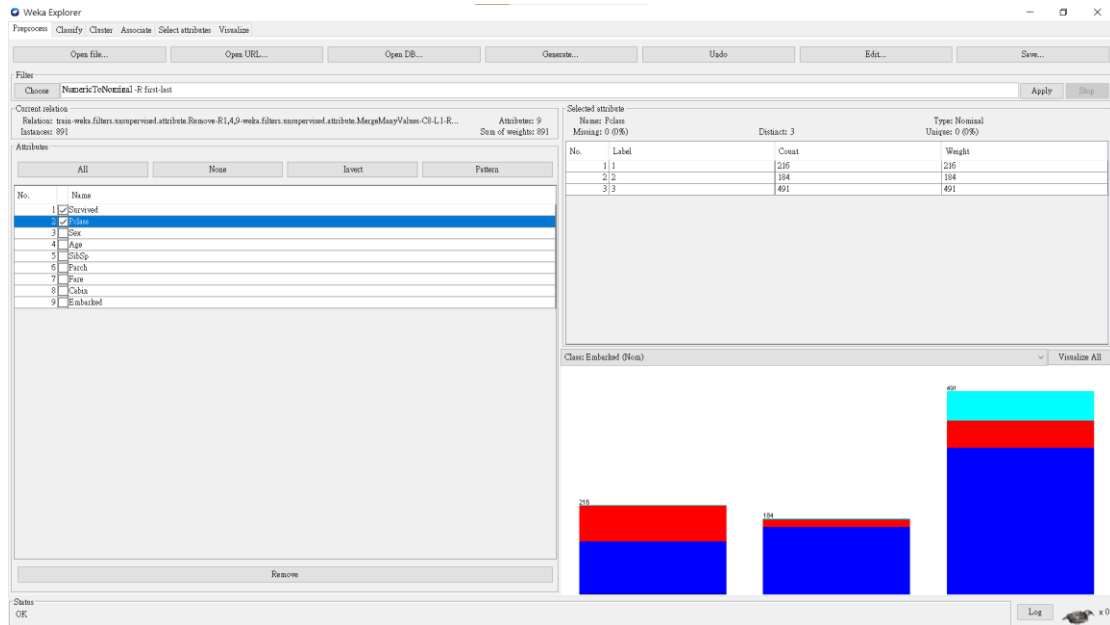


Weka Explorer interface showing the 'ReplaceMissingValues' filter applied to the 'Age' attribute. The filter configuration dialog is open, showing the filter's name, description, and options. The 'Age' attribute is highlighted in the list of attributes. The 'ReplaceMissingValues' filter is selected, and its configuration is shown in the dialog box. The dialog box includes options for 'debug', 'doNotCheckCapabilities', and 'ignoreClass', all set to 'False'. The 'ReplaceMissingValues' filter is applied to the 'Age' attribute, and the 'ReplaceMissingValues' filter is selected in the 'Filter' list.

Relation: train-weka.filters.unsupervised.attribute.Remove-R1,4,9-weka.filters.unsupervised.attribute.MergeManyValues-C8-L1-R1-147-unset-class-temporarily-weka.filters.unsupervised.attribute.ReplaceMissin...

No.	1: Survived Numeric	2: Pclass Numeric	3: Sex Nominal	4: Age Numeric	5: SibSp Numeric	6: Parch Numeric	7: Fare Numeric	8: Cabin Nominal	9: Embarked Nominal
1	0.0	3.0	male	22.0	1.0	0.0	7.25	0	S
2	1.0	1.0	female	38.0	1.0	0.0	71.2833	1	C
3	1.0	3.0	female	26.0	0.0	0.0	7.925	0	S
4	1.0	1.0	female	35.0	1.0	0.0	53.1	1	S
5	0.0	3.0	male	35.0	0.0	0.0	8.05	0	S
6	0.0	3.0	male	29.699...	0.0	0.0	8.4583	0	Q
7	0.0	1.0	male	54.0	0.0	0.0	51.8625	1	S
8	0.0	3.0	male	2.0	3.0	1.0	21.075	0	S
9	1.0	3.0	female	27.0	0.0	2.0	11.1333	0	S
10	1.0	2.0	female	14.0	1.0	0.0	30.0708	0	C
11	1.0	3.0	female	4.0	1.0	1.0	16.71	1	S
12	1.0	1.0	female	58.0	0.0	0.0	26.55	1	S
13	0.0	3.0	male	20.0	0.0	0.0	8.05	0	S
14	0.0	3.0	male	39.0	1.0	5.0	31.275	0	S
15	0.0	3.0	female	14.0	0.0	0.0	7.8542	0	S
16	1.0	2.0	female	55.0	0.0	0.0	16.0	0	S
17	0.0	3.0	male	2.0	4.0	1.0	29.125	0	Q
18	1.0	2.0	male	29.699...	0.0	0.0	13.0	0	S
19	0.0	3.0	female	31.0	1.0	0.0	18.0	0	S
20	1.0	3.0	female	29.699...	0.0	0.0	7.225	0	C
21	0.0	2.0	male	35.0	0.0	0.0	26.0	0	S
22	1.0	2.0	male	34.0	0.0	0.0	13.0	1	S
23	1.0	3.0	female	15.0	0.0	0.0	8.0292	0	Q
24	1.0	1.0	male	28.0	0.0	0.0	35.5	1	S
25	0.0	3.0	female	8.0	3.0	1.0	21.075	0	S
26	1.0	3.0	female	38.0	1.0	5.0	31.3875	0	S
27	0.0	3.0	male	29.699...	0.0	0.0	7.225	0	C
28	0.0	1.0	male	19.0	3.0	2.0	263.0	1	S
29	1.0	3.0	female	29.699...	0.0	0.0	7.8792	0	Q
30	0.0	3.0	male	29.699...	0.0	0.0	7.8958	0	S
31	0.0	1.0	male	40.0	0.0	0.0	27.7208	0	C
32	1.0	1.0	female	29.699...	1.0	0.0	146.5...	1	C
33	1.0	3.0	female	29.699...	0.0	0.0	7.75	0	Q
34	0.0	2.0	male	66.0	0.0	0.0	10.5	0	S
35	0.0	1.0	male	28.0	1.0	0.0	82.1708	0	C
36	0.0	1.0	male	42.0	1.0	0.0	52.0	0	S
37	1.0	3.0	male	29.699...	0.0	0.0	7.2292	0	C

1.4 直接對 Survived 與 Pclass 使用 NominalToNumeric，如下圖



因 survival 以 0 和 1 代表生存與否，僅為一個數字代號，數字本身沒有意義，於是將型態改為 nominal 較恰當；Pclass 則代表傳票等級，與 survival 意義相同。

1.5

