

# EXPERIMENT NO 5

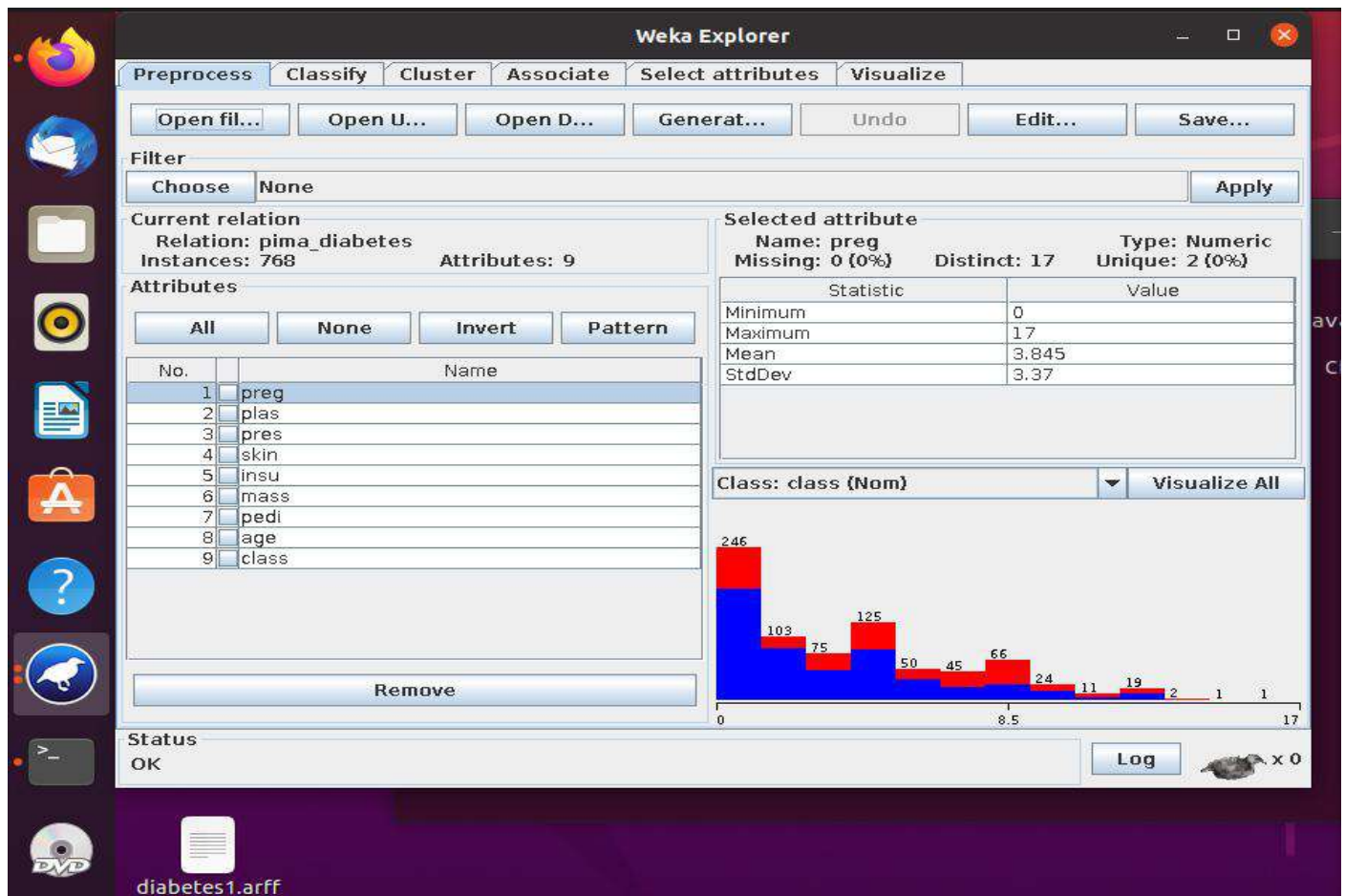
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Roll No: 26

Div: A

Moodle Id: 20102068

## 1. Load the diabetes.arff file into WEKA



## 2. Study the dataset and answer following

Number of instances= ?

Number of Attributes=?

Types of attributes other than class = ?

Type of class Attribute =?

Current relation		
Relation:	pima_diabetes	
Instances:	768	Attributes: 9
Selected attribute		
Name:	plas	Type: Numeric
Missing:	0 (0%)	Distinct: 136
		Unique: 19 (2%)

Selected attribute		
Name:	preg	Type: Numeric
Missing:	0 (0%)	Distinct: 17
		Unique: 2 (0%)
Selected attribute		
Name:	pres	Type: Numeric
Missing:	0 (0%)	Distinct: 47
		Unique: 8 (1%)

Selected attribute		
Name: skin	Type: Numeric	
Missing: 0 {0%}	Distinct: 51	Unique: 5 {1%}

Selected attribute		
Name: insu	Type: Numeric	
Missing: 0 {0%}	Distinct: 186	Unique: 93 {12%}

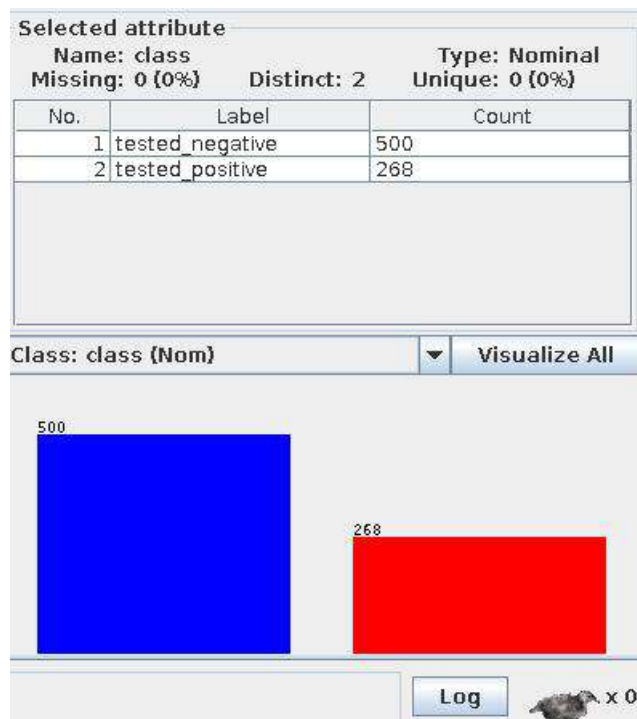
Selected attribute		
Name: mass	Type: Numeric	
Missing: 0 {0%}	Distinct: 248	Unique: 76 {10%}

Selected attribute		
Name: pedi	Type: Numeric	
Missing: 0 {0%}	Distinct: 517	Unique: 346 {45%}

Selected attribute		
Name: age	Type: Numeric	
Missing: 0 {0%}	Distinct: 52	Unique: 5 {1%}

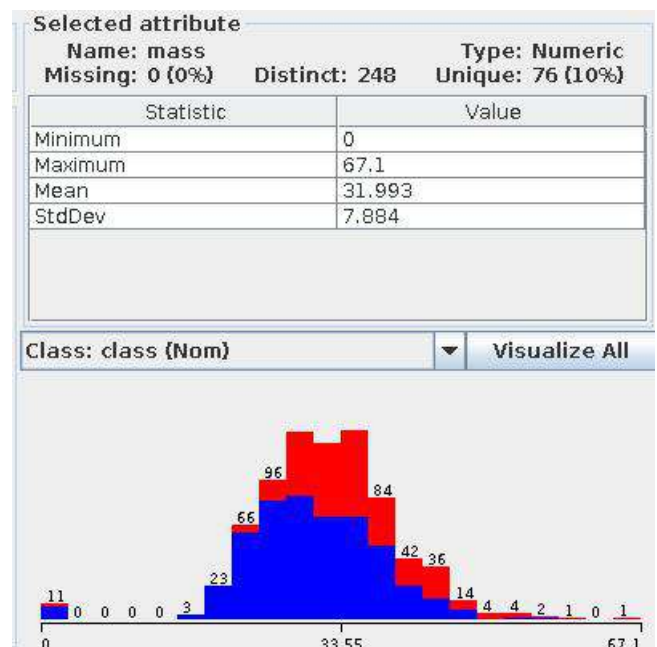
Selected attribute		
Name: class	Type: Nominal	
Missing: 0 {0%}	Distinct: 2	Unique: 0 {0%}

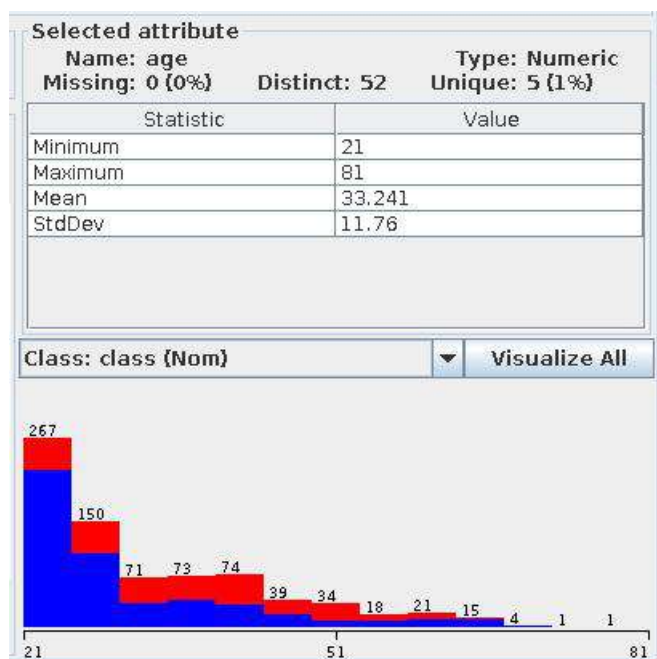
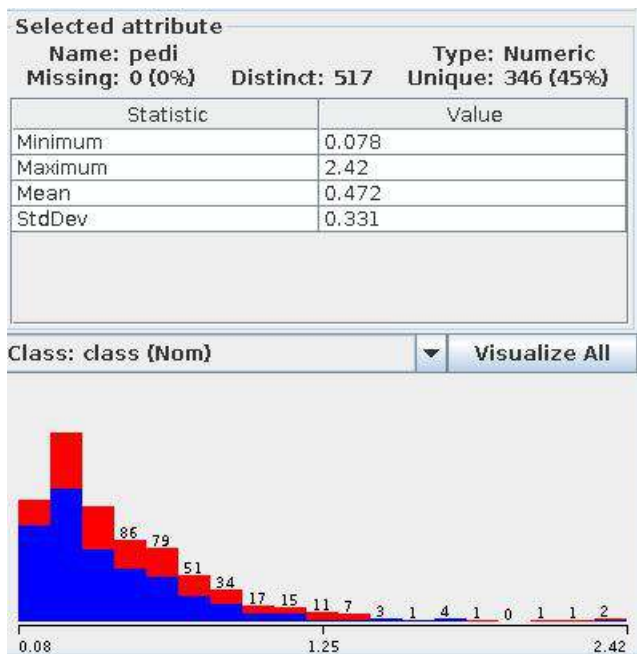
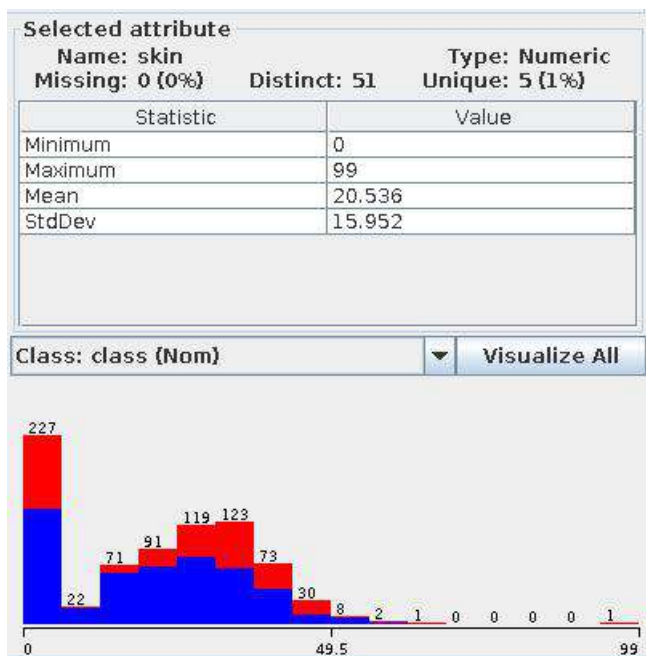
**3. Study the Class labels. Do you think if there is any class imbalance. What are the class labels? Which class is dominant? Paste the screen shot - depicting the number of classes**



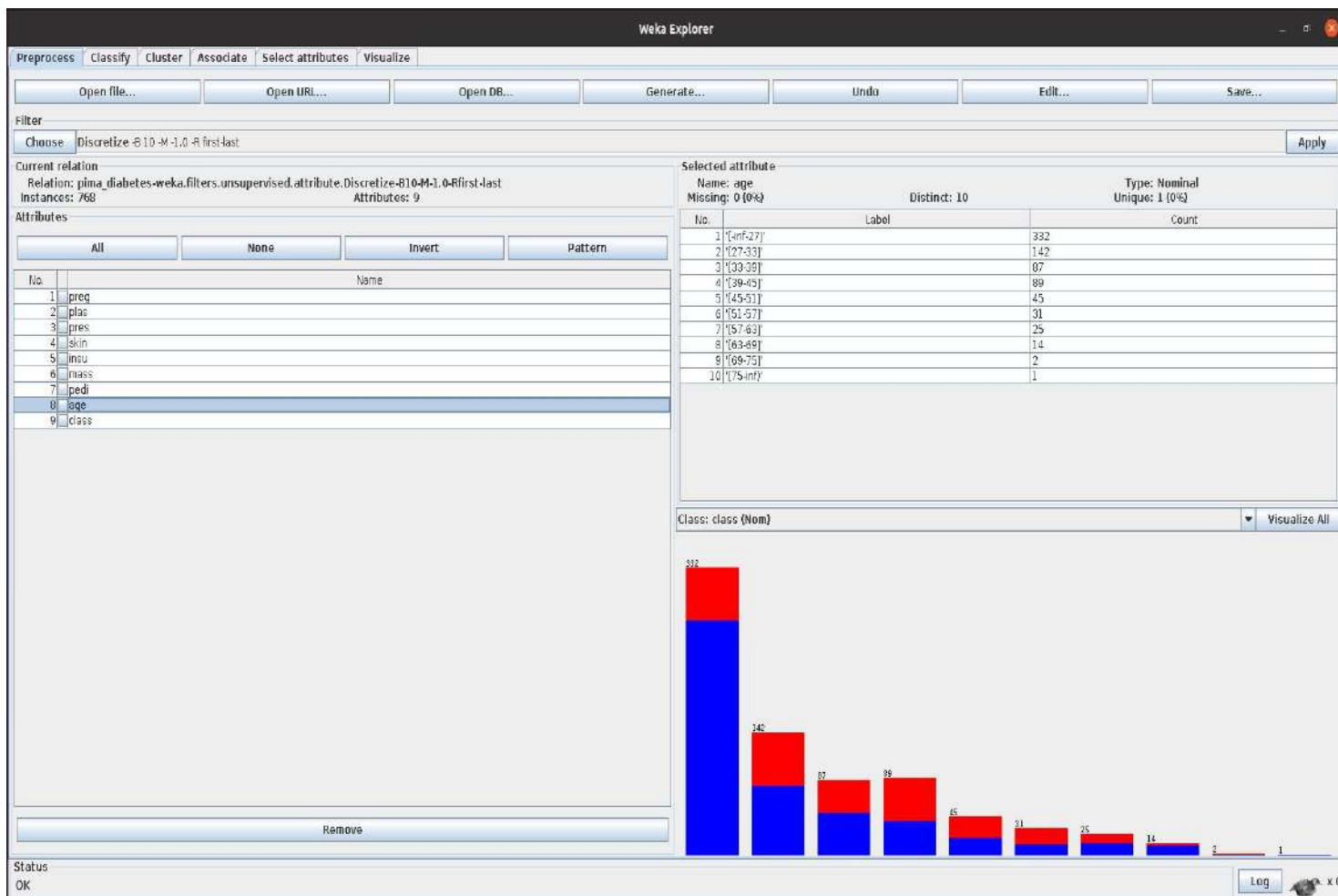
tested\_negative class is dominant.

**4. Study the spread of at-least three numeric attributes and provide statistical measures**

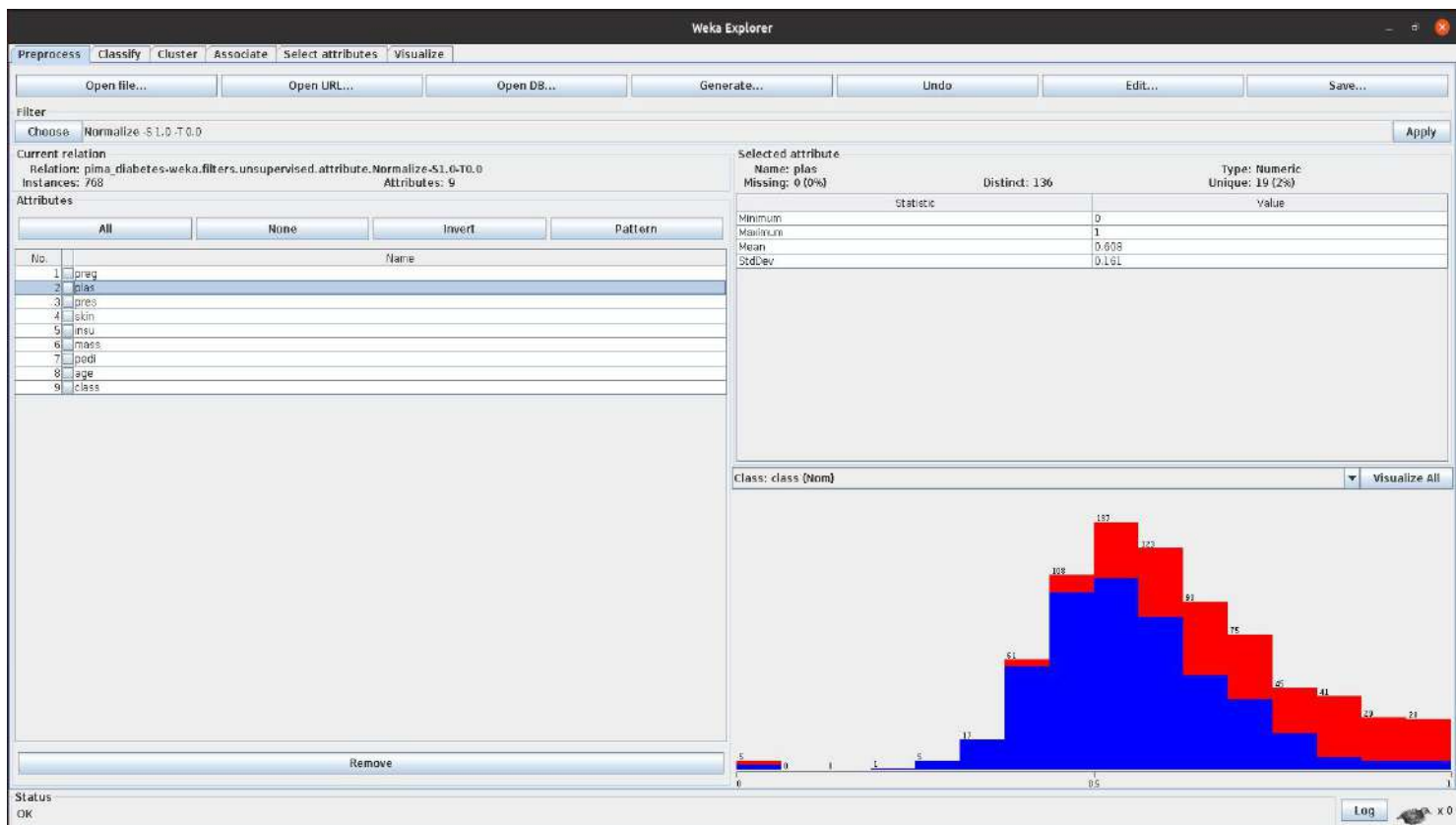




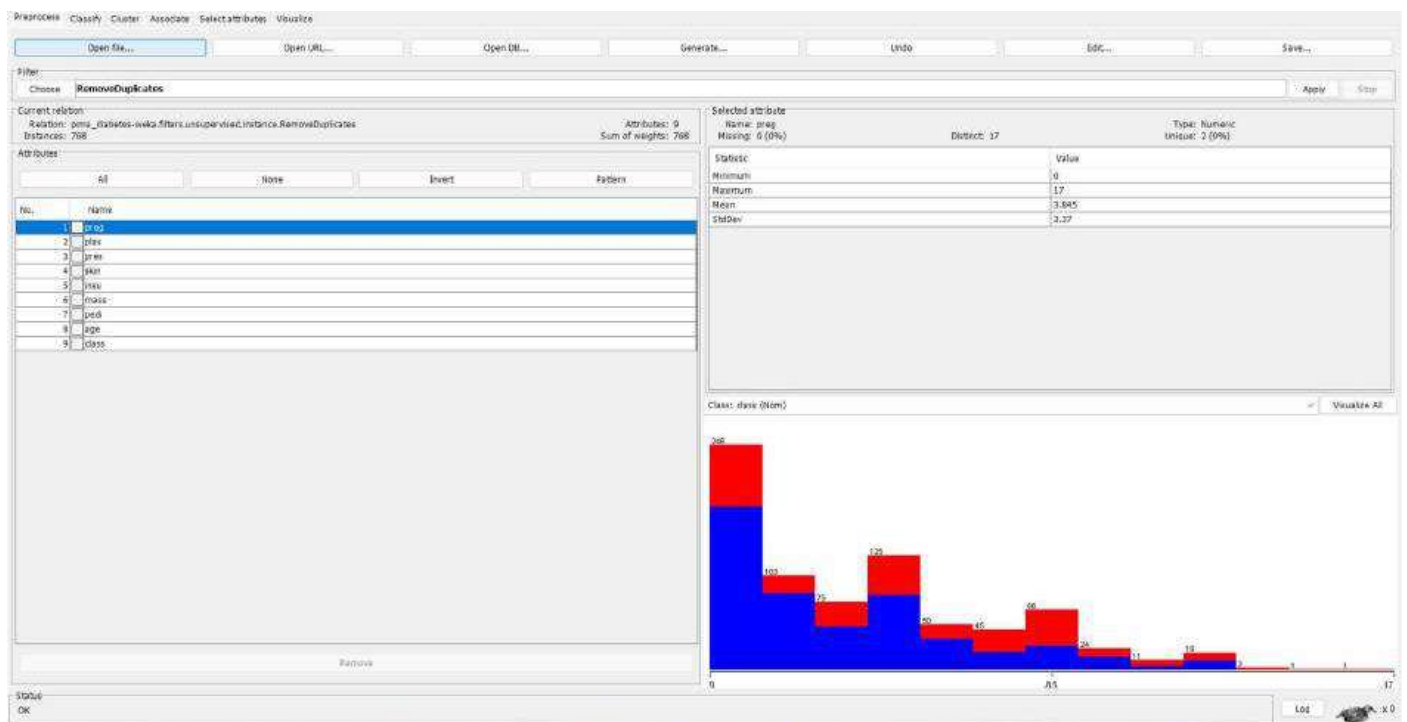
**5. Discretize Age attribute –choose appropriate number of bins for discretization**



6. Normalize plas attribute using min-max normalization—use normalization range as (0,1)



## 7.Remove Duplicate instances if any



## 8. Impute Missing values using mean value imputation.

