1.create a ARFF for given data:

@relation supermarket

@attribute hotdogs{yes,no}

@attribute buns{yes,no}

@attribute ketchup{yes,no}

@attribute coke{yes,no}

@attribute chips{yes,no}

@data

yes,yes,yes,no,no

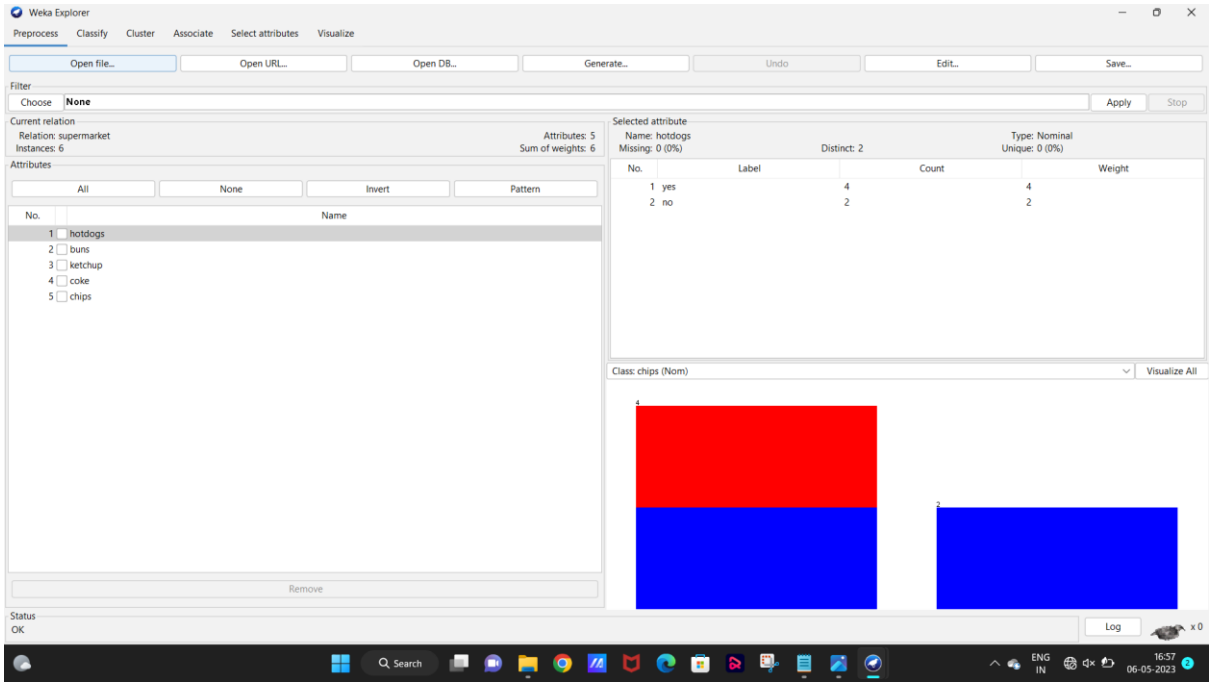
yes,yes,no,no,no

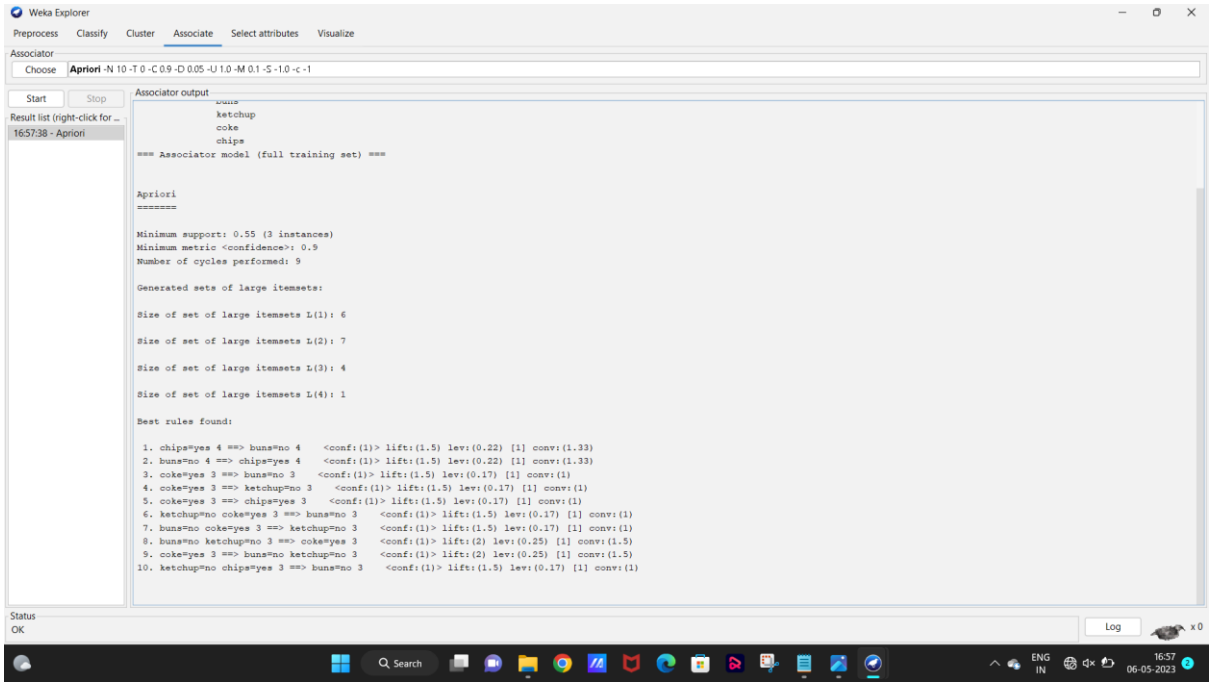
yes,no,no,yes,yes

no,no,no,yes,yes

no,no,yes,no,,yes

yes,no,no,yes,yes


Weka Explorer
Preprocess
Classify
Cluster
Associate
Select attributes
Visualize
Open file...
Open URL...
Open DB...
Generate...
Undo
Edit...
Save...
Filter
Choose
None
Apply
Stop
Current relation
Relation: supermarket
Instances: 6
Attributes: 5
Sum of weights: 6
Attributes
All
None
Invert
Pattern
No.
Name
1 hotdogs
2 buns
3 ketchup
4 coke
5 chips
Remove
Selected attribute
Name: hotdogs
Missing: 0 (0%)
Distinct: 2
Type: Nominal
Unique: 0 (0%)
No.
Label
Count
Weight
1 yes
4
4
2 no
2
2
Class: chips (Nom)
Visualize All
Status
OK
Log
x 0
Search
ENG
IN
16:57
06-05-2023


Weka Explorer
Preprocess
Classify
Cluster
Associate
Select attributes
Visualize
Associator
Choose
Apriori -N 10 -T 0 -C 0.9 -D 0.05 -U 1.0 -M 0.1 -S -1.0 -c -1
Start
Stop
Result list (right-click for ...
16:57:38 - Apriori
Associator output
ketchup
coke
chips
=== Associator model (full training set) ===
Apriori
=======
Minimum support: 0.55 (3 instances)
Minimum metric <confidence>: 0.9
Number of cycles performed: 9
Generated sets of large itemsets:
Size of set of large itemsets L(1): 6
Size of set of large itemsets L(2): 7
Size of set of large itemsets L(3): 4
Size of set of large itemsets L(4): 1
Best rules found:
1. chips=yes 4 ==> buns=no 4 <conf:(1)> lift:(1.5) lev:(0.22) [1] conv:(1.33)
2. buns=no 4 ==> chips=yes 4 <conf:(1)> lift:(1.5) lev:(0.22) [1] conv:(1.33)
3. coke=yes 3 ==> buns=no 3 <conf:(1)> lift:(1.5) lev:(0.17) [1] conv:(1)
4. coke=yes 3 ==> ketchup=no 3 <conf:(1)> lift:(1.5) lev:(0.17) [1] conv:(1)
5. coke=yes 3 ==> chips=yes 3 <conf:(1)> lift:(1.5) lev:(0.17) [1] conv:(1)
6. ketchup=no coke=yes 3 ==> buns=no 3 <conf:(1)> lift:(1.5) lev:(0.17) [1] conv:(1)
7. buns=no coke=yes 3 ==> ketchup=no 3 <conf:(1)> lift:(1.5) lev:(0.17) [1] conv:(1)
8. buns=no ketchup=no 3 ==> coke=yes 3 <conf:(1)> lift:(2) lev:(0.25) [1] conv:(1.5)
9. coke=yes 3 ==> buns=no ketchup=no 3 <conf:(1)> lift:(2) lev:(0.25) [1] conv:(1.5)
10. ketchup=no chips=yes 3 ==> buns=no 3 <conf:(1)> lift:(1.5) lev:(0.17) [1] conv:(1)
Status
OK
Log
x 0
Search
ENG
IN
16:57
06-05-2023

2.

@relation items

@attribute I1{yes,no}

@attribute I2{yes,no}

@attribute I3{yes,no}

@attribute I4{yes,no}

@attribute I5{yes,no}

@data

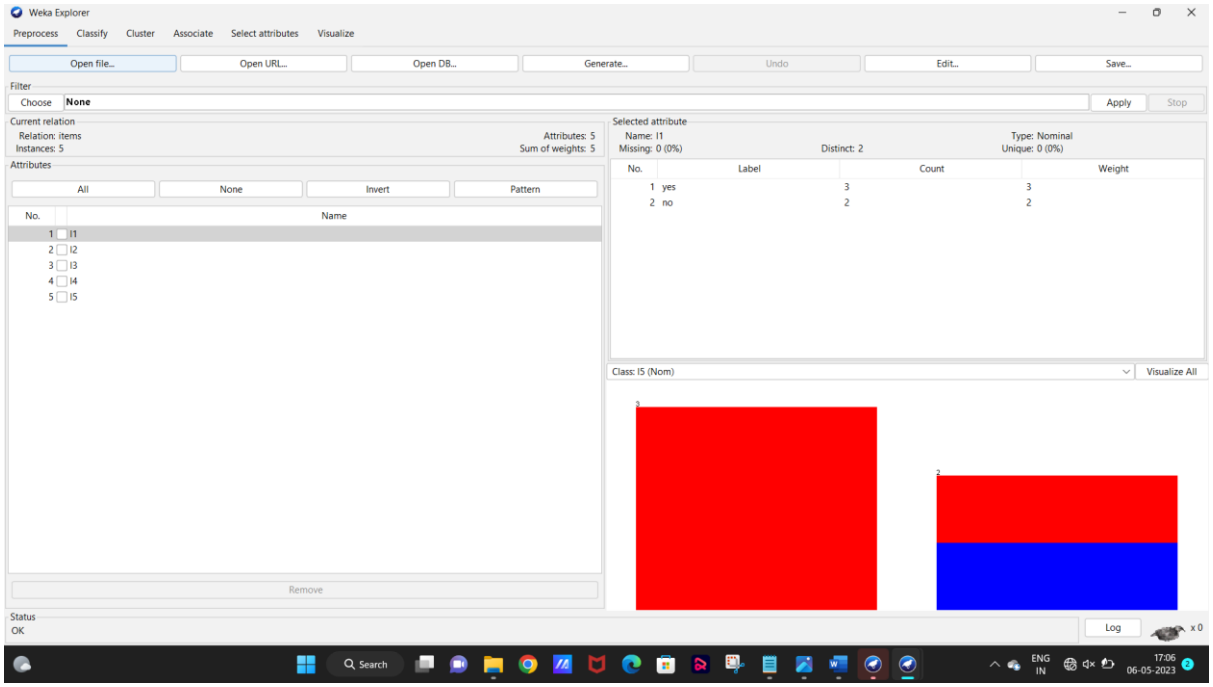
yes,yes,,yes,no,no

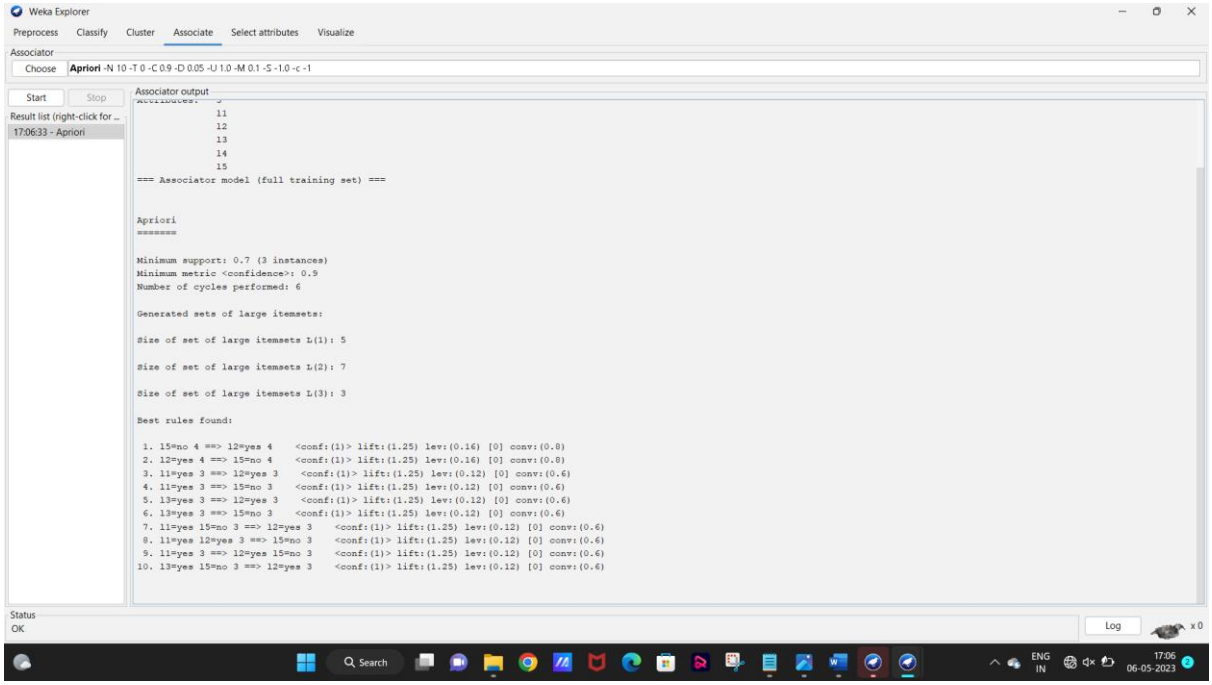
no,yes,yes,yes,no

no,no,no,yes,yes

yes,yes,no,yes,no

yes,yes,yes,yes,no





3.

@relation breakfast

@attribute bread{yes,no}

@attribute peanuts{yes,no}

@attribute milk{yes,no}

@attribute fruit{yes,no}

@attribute jam{yes,no}

@attribute soda{yes,no}

@attribute chips{yes,no}

@attribute steak{yes,no}

@attribute yogurt{yes,no}

@attribute cheese{yes,no}

@data

yes,yes,yes,yes,yes,no,no,no,no,no

yes,yes,no,yes,yes,yes,yes,yes,yes,no

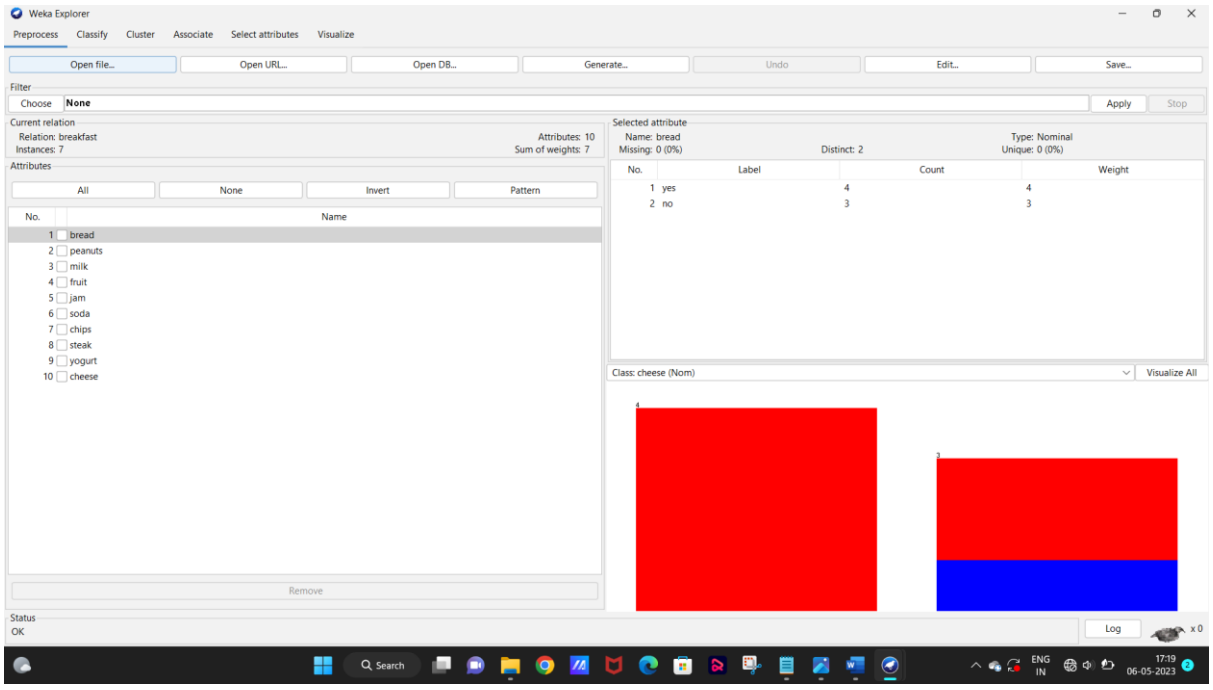
yes,no,no,no,yes,yes,yes,yes,no,no

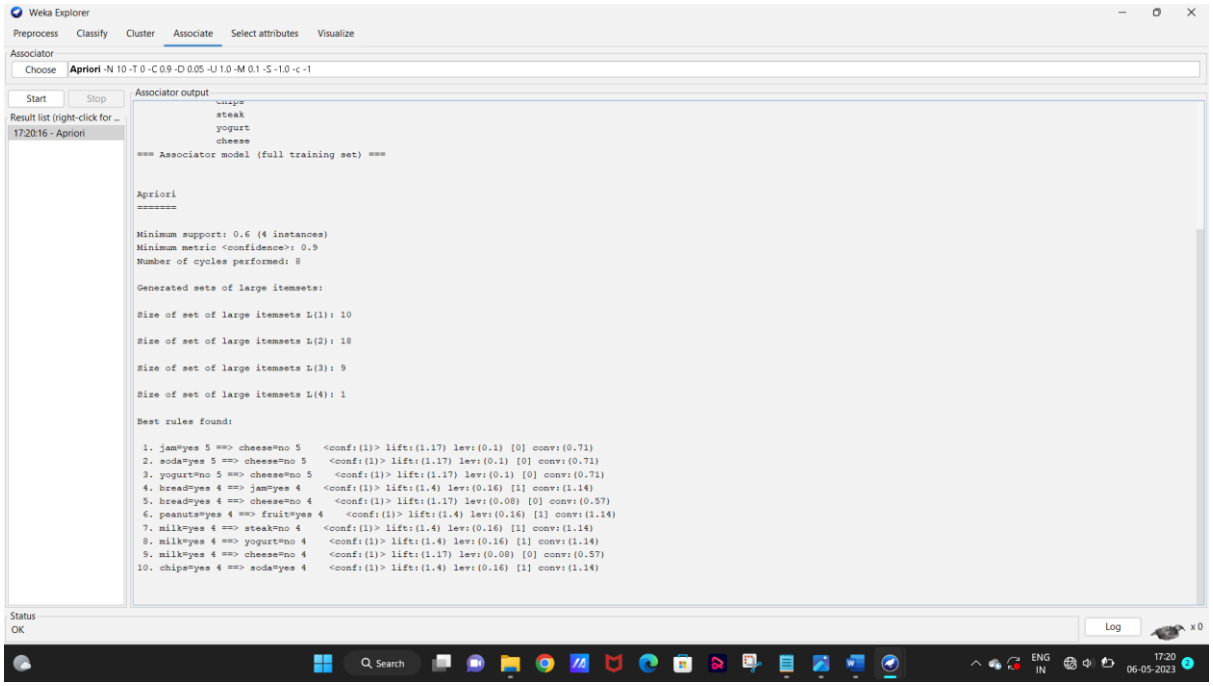
no,yes,yes,yes,yes,yes,no,no,no,no

yes,no,yes,no,yes,yes,yes,no,no,no

no,no,yes,yes,no,yes,yes,no,no,no

no,yes,no,yes,no,no,no,no,yes,yes





4.

@relation playtennis

@attribute outlook{sunny,overcast,rain}

@attribute temperature{hot,mild,cold}

@attribute humidity{high,normal}

@attribute wind{strong,weak}

@data

sunny,hot,high,weak,no

sunny,hot,high,strong,no

overcast,hot,high,weak,yes

rain,mild,high,weak,yes

rain,cold,normal,weak,yes

rain,cold,normal,strong,no

overcast,cold,normal,strong,yes

sunny,mild,high,weak,no

sunny,cold,normal,weak,yes

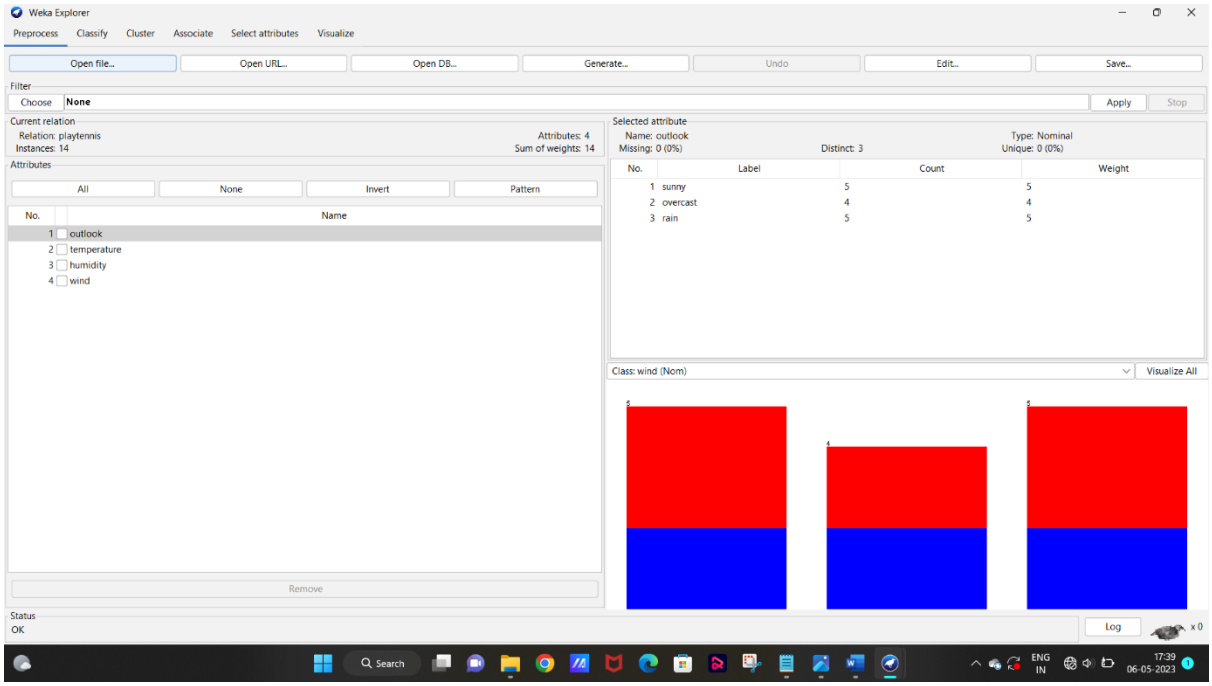
rain,mild,normal,weak,yes

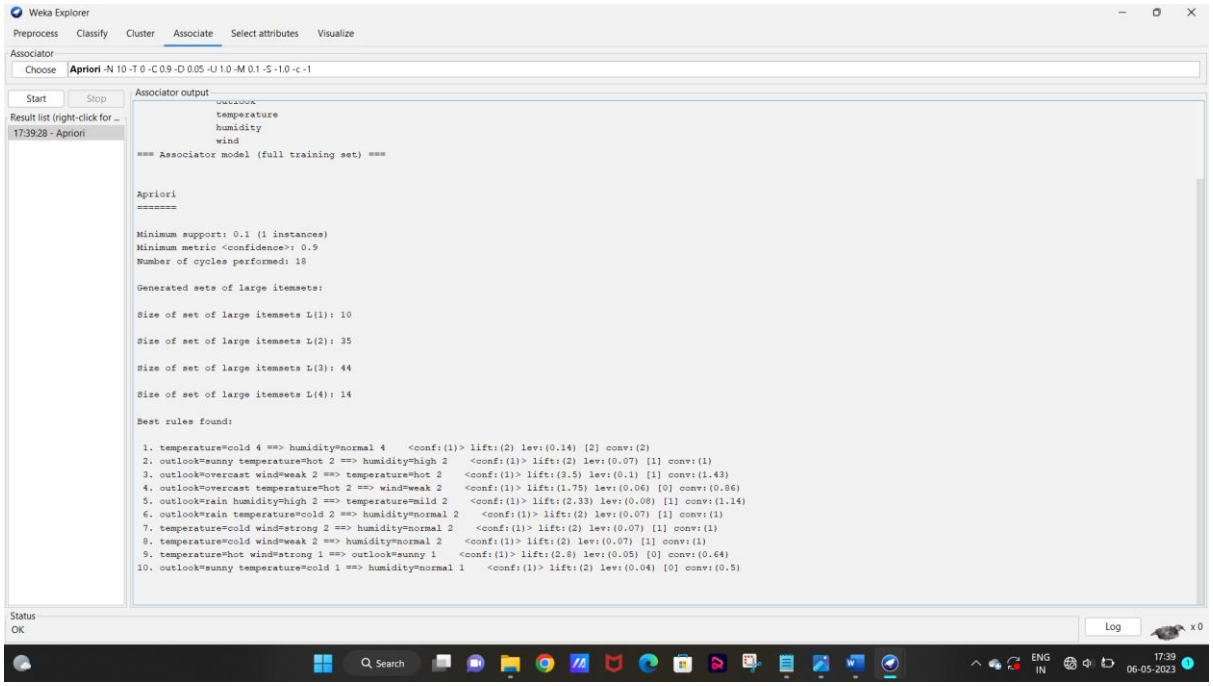
sunny,mild,normal,strong,yes

overcast,mild,high,strong,yes

overcast,hot,normal,weak,yes

rain,mild,high,strong,no




Weka Explorer
Preprocess
Classify
Cluster
Associate
Select attributes
Visualize
Associator
Choose
Apriori -N 10 -T 0 -C 0.9 -D 0.05 -U 1.0 -M 0.1 -S -1.0 -c -1
Start
Stop
Result list (right-click for ...
17:39:28 - Apriori
Associator output
temperature
humidity
wind
=== Associator model (full training set) ===
Apriori
=======
Minimum support: 0.1 (1 instances)
Minimum metric <confidence>: 0.9
Number of cycles performed: 18
Generated sets of large itemsets:
Size of set of large itemsets L(1): 10
Size of set of large itemsets L(2): 35
Size of set of large itemsets L(3): 44
Size of set of large itemsets L(4): 14
Best rules found:
1. temperature=cold 4 ==> humidity=normal 4 <conf:(1)> lift:(2) lev:(0.14) [2] conv:(2)
2. outlook=sunny temperature=hot 2 ==> humidity=high 2 <conf:(1)> lift:(2) lev:(0.07) [1] conv:(1)
3. outlook=overcast wind=weak 2 ==> temperature=hot 2 <conf:(1)> lift:(3.5) lev:(0.1) [1] conv:(1.43)
4. outlook=overcast temperature=hot 2 ==> wind=weak 2 <conf:(1)> lift:(1.75) lev:(0.06) [0] conv:(0.86)
5. outlook=rain humidity=high 2 ==> temperature=mild 2 <conf:(1)> lift:(2.33) lev:(0.08) [1] conv:(1.14)
6. outlook=rain temperature=cold 2 ==> humidity=normal 2 <conf:(1)> lift:(2) lev:(0.07) [1] conv:(1)
7. temperature=cold wind=strong 2 ==> humidity=normal 2 <conf:(1)> lift:(2) lev:(0.07) [1] conv:(1)
8. temperature=cold wind=weak 2 ==> humidity=normal 2 <conf:(1)> lift:(2) lev:(0.07) [1] conv:(1)
9. temperature=hot wind=strong 1 ==> outlook=sunny 1 <conf:(1)> lift:(2.8) lev:(0.05) [0] conv:(0.64)
10. outlook=sunny temperature=cold 1 ==> humidity=normal 1 <conf:(1)> lift:(2) lev:(0.04) [0] conv:(0.5)
Status
OK
Log
x 0
Search
ENG
IN
17:39
06-05-2023