

COMPUTER SCIENCE & ENGINEERING

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Experiment 4

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Branch: CSE Section/Group: 902-A

Semester: 6th

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Subject Name: Data Mining Lab

Subject Code: 20CSP-376

1. Aim: To implement FP growth algorithm using arules library and transaction data set

2. Objective: To demonstrate the working of frequent pattern growth on a given data set 3. Script and Output:

```
#Frequent Pattern Growth Algorithm
#is the method of finding frequent patterns
#without candidate generation

setwd("F:\\DATA MINING") getwd()

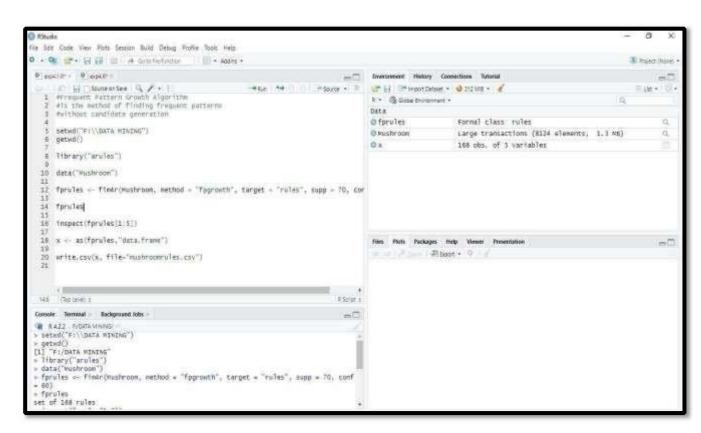
library("arules")

data("Mushroom")
```

fprules <- fim4r(Mushroom, method = "fpgrowth", target = "rules", supp = 70, conf =

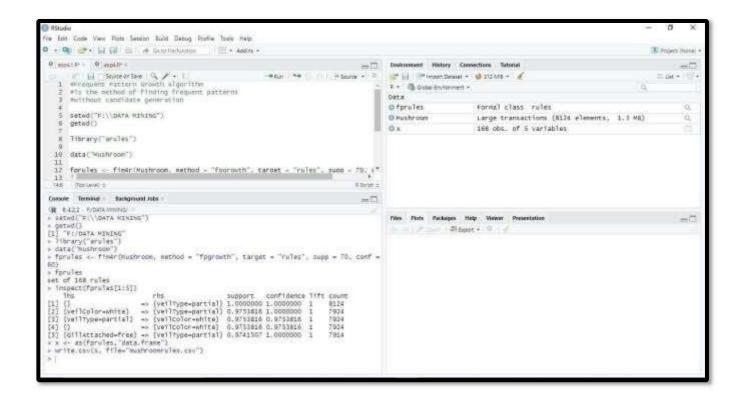
60) fprules inspect(fprules[1:5]) x <- as(fprules,"data.frame") write.csv(x, file="mushroomrules.csv")

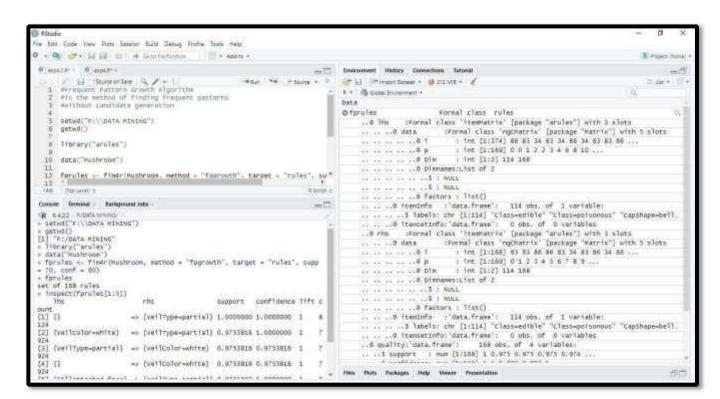
OUTPUT-:



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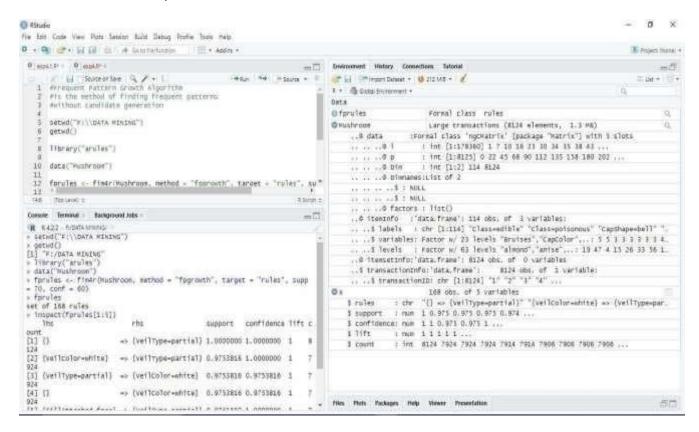


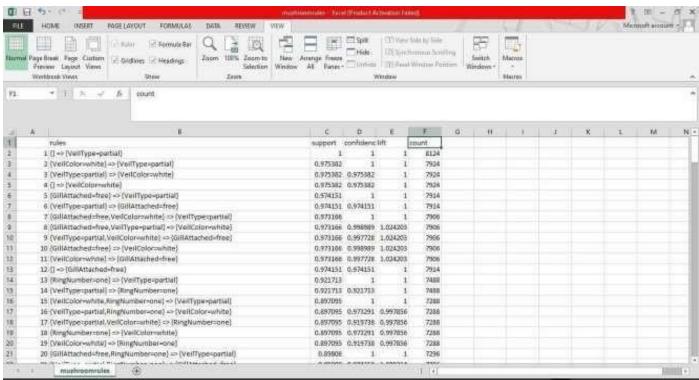




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4. Learning Outcome:

- Setting and getting directory path for R project.
- Creating and working with FP growth algorithm.
- Saving data frame in .csv file format in R.
- Loading .csv file in data frame and print it.
- Basic of the data frame and r studio uses in the data frame