Association Rules:

1. Data Set: Groceries

library(arules)

groceries<-groceries

rules<-apriori(groceries)

Apriori

Parameter specification:

confidence minval smax arem aval originalSupport maxtime support minlen maxlen

0.8 0.1 1 none FALSE TRUE 5 0.1 1 10

target ext

rules FALSE

Algorithmic control:

filter tree heap memopt load sort verbose

0.1 TRUE TRUE FALSE TRUE 2 TRUE

Absolute minimum support count: 1529

set item appearances ...[0 item(s)] done [0.00s].

set transactions ...[655 item(s), 15295 transaction(s)] done [0.01s].

sorting and recoding items ... [3 item(s)] done [0.00s].

creating transaction tree ... done [0.00s].

checking subsets of size 1 2 3 done [0.00s].

writing ... [5 rule(s)] done [0.00s].

creating S4 object ... done [0.00s].

arules::inspect(rules)

lhs rhs support confidence

[1] {semi.finished.bread=} => {margarine=} 0.2278522 1

[2] {semi.finished.bread=} => {ready.soups=} 0.2278522 1

[3] {margarine=} => {ready.soups=} 0.3998039 1

[4] {semi.finished.bread=,margarine=} => {ready.soups=} 0.2278522 1

[5] {semi.finished.bread=,ready.soups=} => {margarine=} 0.2278522 1

lift count

[1] 2.501226 3485

[2] 1.861385 3485

[3] 1.861385 6115

[4] 1.861385 3485

[5] 2.501226 3485

1. My Movies

library(arules)

movie<-my\_movies[,c(1:5)]

rules<-apriori(movie)

Results

Parameter specification:

confidence minval smax arem aval originalSupport maxtime support minlen maxlen

0.8 0.1 1 none FALSE TRUE 5 0.1 1 10

target ext

rules FALSE

Algorithmic control:

filter tree heap memopt load sort verbose

0.1 TRUE TRUE FALSE TRUE 2 TRUE

Absolute minimum support count: 1

set item appearances ...[0 item(s)] done [0.00s].

set transactions ...[18 item(s), 10 transaction(s)] done [0.00s].

sorting and recoding items ... [18 item(s)] done [0.00s].

creating transaction tree ... done [0.00s].

checking subsets of size 1 2 3 4 5 done [0.00s].

writing ... [342 rule(s)] done [0.00s].

creating S4 object ... done [0.00s].

arules::inspect(rules)

**Results**

lhs rhs support confidence lift count

[1] {} => {V4=} 0.8 0.8000000 1.000000 8

[2] {} => {V5=} 0.9 0.9000000 1.000000 9

[3] {V3=Gladiator} => {V2=LOTR} 0.1 1.0000000 10.000000 1

[4] {V2=LOTR} => {V3=Gladiator} 0.1 1.0000000 10.000000 1

[5] {V3=Gladiator} => {V4=Green Mile} 0.1 1.0000000 5.000000 1

.

.

. 0.4 1.0000000 1.250000 4

[341] {V2=Patriot,

V3=Sixth Sense,

V4=,

V5=} => {V1=Gladiator} 0.4 1.0000000 1.666 4

[342] {V1=Gladiator,

V3=Sixth Sense,

V4=,

V5=} => {V2=Patriot} 0.4 1.0000000 1.666 4

C. Data Set : Book:

library(arules)

book<-book[,c(1:11)]

rules<-apriori(book)

**Result: Getting Error**

View(book)

> book <- read.csv("F:/Data Scientist/Association Rules 4.2/book.csv")

> View(book)

> library(arules)

> book<-book[,c(1:11)]

> rules<-apriori(book)

Error in discretizeDF(from) : Problem with column ChildBks

Error in discretize(x = c(0L, 1L, 0L, 1L, 0L, 1L, 0L, 0L, 1L, 1L, 0L, :

The calculated breaks are: 0, 0, 1, 1

Some breaks are not unique. Change the number of breaks or consider using method 'fixed'.

In addition: Warning message:

Column(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 not logical or factor. Applying default discretization (see '? discretizeDF').