APPENDIX 1

1.1 CLASS ASSOCIATION RULES FOR THE MONTH MAY

Magnum Opus - The leader in pattern discovery technology.
Version 4.0
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When publishing results found with this software please cite Webb
and Zhang (2005). K-Optimal Rule Discovery. Data Mining and
Knowledge Discovery, 10(1): 39-79.

Names file: theismay.names
Data file: theismay.data
Search for rules
Search by strength
Filter out rules that are insignificant, critical value=0.05
Use m-estimate, m = 2
Only 28 rules satisfy the specified constraints.
S(t)<=40.85 -> release=nil
[Coverage=0.449; RHS Coverage=0.599; Support=0.449; Strength
estimate=0.997; Lift estimate=1.67; Leverage=0.1804; p=9.77
E-096]
I(n-1)<=129.65 -> release=nil
[Coverage=0.138; RHS Coverage=0.599; Support=0.138; Strength
estimate=0.991; Lift estimate=1.66; Leverage=0.0554; p=7.76
E-022]
62.85 < S(t) < 75 & 129.65 < I(n-1) <= 182 -> release=nil
[Coverage=0.327; RHS Coverage=0.599; Support=0.315; Strength estimate=0.957; Lift estimate=1.60; Leverage=0.1186; p=4.04 E-045]

75 < S(t) < 102.35 & R(n-1) <= 145.0 -> release=nil
[Coverage=0.374; RHS Coverage=0.599; Support=0.340; Strength estimate=0.907; Lift estimate=1.52; Leverage=0.1164; p=2.06 E-038]

40.85 < S(t) <= 47.20 -> release=nil
[Coverage=0.072; RHS Coverage=0.599; Support=0.063; Strength estimate=0.855; Lift estimate=1.43; Leverage=0.0194; p=5.30 E-005]

I(n-1) > 252.25 -> release=full
[Coverage=0.177; RHS Coverage=0.299; Support=0.140; Strength estimate=0.782; Lift estimate=2.62; Leverage=0.0869; p=8.64 E-033]

182 < I(n-1) <= 195.50 -> release=nil
[Coverage=0.098; RHS Coverage=0.599; Support=0.072; Strength estimate=0.733; Lift estimate=1.22; Leverage=0.0136; p=0.0127]

75 < S(t) <= 102.35 -> release=full
[Coverage=0.189; RHS Coverage=0.299; Support=0.140; Strength estimate=0.730; Lift estimate=2.45; Leverage=0.0831; p=1.46 E-028]
62.85 < S(t) ≤ 75 -> release=full
[Coverage=0.133; RHS Coverage=0.299; Support=0.096; Strength estimate=0.713; Lift estimate=2.39; Leverage=0.0565; p=6.96E-018]

192.25 < I(n-3) ≤ 229.50 -> release=nil
[Coverage=0.157; RHS Coverage=0.599; Support=0.108; Strength estimate=0.682; Lift estimate=1.14; Leverage=0.0134; p=0.0383]

I(n-2) ≤ 116.80 & 145.80 < R(n-1) ≤ 192.25 -> release=full
[Coverage=0.034; RHS Coverage=0.299; Support=0.024; Strength estimate=0.678; Lift estimate=2.27; Leverage=0.0140; p=0.00611]

75 < S(t) ≤ 102.35 & I(n-3) > 229.50 -> release=nil
[Coverage=0.222; RHS Coverage=0.599; Support=0.149; Strength estimate=0.673; Lift estimate=1.12; Leverage=0.0167; p=0.0252]

221 < I(n-1) ≤ 252.50 -> release=full
[Coverage=0.106; RHS Coverage=0.299; Support=0.067; Strength estimate=0.626; Lift estimate=2.10; Leverage=0.0358; p=1.72E-009]

47.20 < S(t) ≤ 51.75 & 221 < I(n-1) ≤ 252.50 -> release=medium
[Coverage=0.003; RHS Coverage=0.071; Support=0.003; Strength estimate=0.535; Lift estimate=7.58; Leverage=0.0030; p=0.0285]

40.85 < S(t) ≤ 47.20 & 192.25 < I(n-3) ≤ 229.50 & 195.50 < I(n-1) ≤ 221 -> release=medium
[Coverage=0.003; RHS Coverage=0.071; Support=0.003; Strength estimate=0.535; Lift estimate=7.58; Leverage=0.0030; p=0.0362]
51.75<S(t)<=62.85 -> release=full
[Coverage=0.080; RHS Coverage=0.299; Support=0.043; Strength estimate=0.531; Lift estimate=1.78; Leverage=0.0194; p=0.000172]

145.80<R(n-1)<192.25 -> release=full
[Coverage=0.586; RHS Coverage=0.299; Support=0.250; Strength estimate=0.427; Lift estimate=1.43; Leverage=0.0755; p=3.80E-018]

51.75<S(t)<=62.85 & 156.25<I(n-2)<205.75 -> release=high
[Coverage=0.029; RHS Coverage=0.032; Support=0.008; Strength estimate=0.253; Lift estimate=7.89; Leverage=0.0071; p=0.0184]

40.85<S(t)<=47.20 & 145.80<R(n-1)<192.25 -> release=medium
[Coverage=0.042; RHS Coverage=0.071; Support=0.010; Strength estimate=0.219; Lift estimate=3.11; Leverage=0.0067; p=0.0283]

I(n-3)>229.50 & 221<I(n-1)<252.25 -> release=high
[Coverage=0.02; RHS Coverage=0.032; Support=0.00; Strength estimate=0.204; Lift estimate=6.36; Leverage=0.0041; p=0.0485]

47.20<S(t)<=51.75 & 195.50<I(n-1)<221 -> release=high
[Coverage=0.043; RHS Coverage=0.071; Support=0.008; Strength estimate=0.177; Lift estimate=2.51; Leverage=0.0050; p=0.0349]

221<I(n-1)<252.25 -> release=medium
[Coverage=0.106; RHS Coverage=0.071; Support=0.018; Strength estimate=0.164; Lift estimate=2.32; Leverage=0.0102; p=0.00370]
51.75 < S(t) <= 62.85 & 221 < I(n-1) <= 252.75 -> release=medium
[Coverage=0.080; RHS Coverage=0.071; Support=0.013; Strength estimate=0.157; Lift estimate=2.22; Leverage=0.0072; p=0.0182]

195.50 < I(n-1) <= 221 -> release=medium
[Coverage=0.114; RHS Coverage=0.071; Support=0.016; Strength estimate=0.139; Lift estimate=1.97; Leverage=0.0080; p=0.0197]

51.75 < S(t) <= 62.85 & 195.50 < I(n-1) <= 221 -> release=high
[Coverage=0.080; RHS Coverage=0.032; Support=0.010; Strength estimate=0.117; Lift estimate=3.63; Leverage=0.0071; p=0.00321]

62.85 < S(t) <= 75 & 195.50 < I(n-1) <= 221 -> release=high
[Coverage=0.114; RHS Coverage=0.032; Support=0.011; Strength estimate=0.097; Lift estimate=3.01; Leverage=0.0076; p=0.00428]

62.85 < S(t) <= 75 & 145.80 < R(n-1) <= 192.25 -> release=medium
[Coverage=0.586; RHS Coverage=0.071; Support=0.056; Strength estimate=0.096; Lift estimate=1.36; Leverage=0.0148; p=0.00210]

156.25 < I(n-2) <= 205.75 -> release=high
[Coverage=0.291; RHS Coverage=0.032; Support=0.016; Strength estimate=0.055; Lift estimate=1.71; Leverage=0.0067; p=0.0365]
1.2 CLASS ASSOCIATION RULES FOR THE MONTH SEPTEMBER

Magnum Opus - The leader in pattern discovery technology.
Version 4.0
Copyright (c) 1999-2006 G. I. Webb & Associates Pty Ltd.
Names file: thesissept.names
Data file: thesissept.data
Search for rules
Search by strength
Filter out rules that are insignificant, critical value=0.05
Use m-estimate, m = 2
Only 15 rules satisfy the specified constraints.

PMNI<=98.50 -> release=nil
[Coverage=0.300; RHS Coverage=0.644; Support=0.293; Strength estimate=0.971; Lift estimate=1.51; Leverage=0.0997; p=7.47 E-026]

St<=119.50 -> release=nil
[Coverage=0.255; RHS Coverage=0.644; Support=0.246; Strength estimate=0.958; Lift estimate=1.49; Leverage=0.0815; p=2.96 E-019]
119.50 < St <= 142.85 -> release=nil
[Cov=0.230; RHS Cov=0.644; Sup=0.208; St est=0.903; Lif=1.40; Lev=0.0606; p=2.38E-011]

St > 142.85 & 98.50 < PMNI <= 115 -> release=nil
[Cov=0.115; RHS Cov=0.644; Sup=0.103; St est=0.888; Lif=1.38; Lev=0.029; p=2.21E-005]

119.50 < St <= 142.85 & PMNI > 134.50 & R(n-1) > 171.90 -> release=full
[Cov=0.115; RHS Cov=0.356; Sup=0.101; St est=0.857; Lif=2.41; Lev=0.0599; p=0.00203]

119.50 < St <= 142.85 & 115 < PMNI <= 134.50 -> release=nil
[Cov=0.117; RHS Cov=0.644; Sup=0.098; St est=0.832; Lif=1.29; Lev=0.0229; p=0.00110]

PMNI > 134.75 & Rmay > 0 -> release=full
[Cov=0.197 (84); RHS Cov=0.356 (152); Sup=0.157 (67); St est=0.787; Lif=2.21; Lev=0.0869 (37.1); p=0.0175]

R(n-1) <= 171.90 & Rmay <= 0 -> release=nil
[Cov=0.562; RHS Cov=0.644; Sup=0.412; St est=0.733; Lif=1.14; Lev=0.0502; p=0.00513]

R(n-1) > 171.90 & St > 142.85 -> release=full
[Cov=0.143; RHS Cov=0.356; Sup=0.105; St est=0.726; Lif=2.04; Lev=0.0545; p=0.0300]
St>142.85 & PMNI>134.75 -> release=full
[Coverage=0.429; RHS Coverage=0.356; Support=0.307; Strength estimate=0.712; Lift estimate=2.00; Leverage=0.1542; p=9.24 E-044]

St>142.85 & Rmay<=0 -> release=nil
[Coverage=0.623; RHS Coverage=0.644; Support=0.440; Strength estimate=0.706; Lift estimate=1.10; Leverage=0.0391; p=0.000388]

St>142.85 & R(n-1)<=171.90 -> release=nil
[Coverage=0.778; RHS Coverage=0.644; Support=0.529; Strength estimate=0.681; Lift estimate=1.06; Leverage=0.0285; p=0.00251]

St>142.85 -> release=full
[Coverage=0.515; RHS Coverage=0.356; Support=0.326; Strength estimate=0.629; Lift estimate=1.77; Leverage=0.1421; p=2.72 E-038]

St>142.85 & R(n-1)>171.90 -> release=full
[Coverage=0.220; RHS Coverage=0.356; Support=0.108; Strength estimate=0.487; Lift estimate=1.37; Leverage=0.0294; p=0.00186]

119.50<St<=142.85 & Rmay>0 -> release=full
[Coverage=0.377; RHS Coverage=0.356; Support=0.173; Strength estimate=0.458; Lift estimate=1.29; Leverage=0.0391; p=0.000388]
1.3 CLASS ASSOCIATION RULES FOR THE MONTH OCTOBER

Magnum Opus - The leader in pattern discovery technology.
Version 4.0

Names file: thesisoct.names
Data file: thesisoct.data

Search for rules
Search by strength
Filter out rules that are insignificant, critical value=0.05
Use m-estimate, m = 2
Only 8 rules satisfy the specified constraints.

180.10<St<=195.65 & PMNR>0 -> release=full
[Coverage=0.176; RHS Coverage=0.464; Support=0.176; Strength estimate=0.986; Lift estimate=2.13; Leverage=0.0942; p=8.57 E-030]

St<=180.10 & PMNR>38.25 -> release=full
[Coverage=0.173; RHS Coverage=0.464; Support=0.173; Strength estimate=0.986; Lift estimate=2.13; Leverage=0.0929; p=2.44 E-029]
St>195.65 -> release=full

[Coverage=0.297; RHS Coverage=0.464; Support=0.290; Strength estimate=0.968; Lift estimate=2.09; Leverage=0.1525; p=2.51 E-050]

St<=180.10 & PMNR<=0 -> release=nil

[Coverage=0.400; RHS Coverage=0.536; Support=0.363; Strength estimate=0.902; Lift estimate=1.68; Leverage=0.1482; p=1.60 E-005]

180.10<St<=195.65 & PMNR<=0 -> release=nil

[Coverage=0.080; RHS Coverage=0.464; Support=0.068; Strength estimate=0.831; Lift estimate=1.79; Leverage=0.0310; p=1.26 E-006]

St<=180.10 -> release=nil

[Coverage=0.623; RHS Coverage=0.536; Support=0.518; Strength estimate=0.829; Lift estimate=1.55; Leverage=0.1835; p=4.63 E-063]

St>195.65 & PMNR<=0 -> release=nil

[Coverage=0.445; RHS Coverage=0.536; Support=0.370; Strength estimate=0.829; Lift estimate=1.54; Leverage=0.1314; p=1.94 E-029]

St>195.65 & 8.22<PMNR<=38.25 -> release=nil

[Coverage=0.206; RHS Coverage=0.536; Support=0.166; Strength estimate=0.801; Lift estimate=1.49; Leverage=0.0558; p=3.93 E-009]
1.4 CLASS ASSOCIATION RULES FOR THE MONTH NOVEMBER

Magnum Opus - The leader in pattern discovery technology. Version 4.0


Names file: thesisnov.names
Data file: thesisnov.data

Search for rules
Search by strength
Filter out rules that are insignificant, critical value=0.05
Use m-estimate, m = 2

Only 24 rules satisfy the specified constraints.

\[ \text{St} \leq 155.50 \land 38.25 < \text{PMNR} \leq 50.50 \implies \text{release}=\text{full} \]
[Coverage=0.218; RHS Coverage=0.735; Support=0.215; Strength estimate=0.984; Lift estimate=1.34; Leverage=0.0553; p=2.35 E-013]

\[ 155.50 < \text{St} \leq 163.50 \land 19.50 < \text{PMNR} \leq 31.25 \implies \text{release}=\text{full} \]
[Coverage=0.185; RHS Coverage=0.735; Support=0.180; Strength estimate=0.969; Lift estimate=1.32; Leverage=0.0443; p=9.94 E-010]
St>182.10 -> release=full
[Coverage=0.480; RHS Coverage=0.735; Support=0.466; Strength estimate=0.968; Lift estimate=1.32; Leverage=0.1130; p=4.90E-030]

155.50<St<=163.50 & I(n-1)>182.00 & 0<PMNR<=19.50 -> release=medium
[Coverage=0.063; RHS Coverage=0.735; Support=0.06; Strength estimate=0.947; Lift estimate=1.29; Leverage=0.0144; p=0.00211]

174.85<St<=182.10 & 19.50<PMNR<=31.25 -> release=full
[Coverage=0.061; RHS Coverage=0.735; Support=0.059; Strength estimate=0.945; Lift estimate=1.29; Leverage=0.0138; p=0.00283]

163.50<St<=174.85 & 38.25<PMNR<=50.50 -> release=medium
[Coverage=0.096; RHS Coverage=0.735; Support=0.087; Strength estimate=0.895; Lift estimate=1.22; Leverage=0.0160; p=0.00572]

155.50<St<=163.50 & I(n-1)>182.00 & PMNR>19.50 -> release=full
[Coverage=0.063; RHS Coverage=0.735; Support=0.056; Strength estimate=0.878; Lift estimate=1.19; Leverage=0.0097; p=0.0428]

I(n-1)>182.00 & St<=155.50 & PMNR>31.25 -> release=full
[Coverage=0.511; RHS Coverage=0.735; Support=0.403; Strength estimate=0.789; Lift estimate=1.07; Leverage=0.0274; p=0.00696]

I(n-1)>182.00 & St<=155.50 & PMNR<=0 -> release=nil
[Coverage=0.044; RHS Coverage=0.122; Support=0.033; Strength estimate=0.678; Lift estimate=5.57; Leverage=0.0274; p=0.0441]
155.50<St<=163.50 & I(n-1)<=133.75 -> release=nil
[Coverage=0.077; RHS Coverage=0.120; Support=0.044; Strength estimate=0.550; Lift estimate=4.51; Leverage=0.0351; p=0.0141]

St<=155.50 & PMNR<=0 -> release=nil
[Coverage=0.208; RHS Coverage=0.122; Support=0.112; Strength estimate=0.530; Lift estimate=4.35; Leverage=0.0870; p=2.27E-07]

St<=155.50 & 31.25<PMNR<=38.25 -> release=medium
[Coverage=0.059; RHS Coverage=0.122; Support=0.033; Strength estimate=0.528; Lift estimate=4.33; Leverage=0.0257; p=0.00691]

155.50<St<=163.50 & 175.50<I(t-1)<=182.00 & PMNR<=0 -> release=medium
[Coverage=0.028; RHS Coverage=0.122; Support=0.014; Strength estimate=0.446; Lift estimate=3.66; Leverage=0.0106; p=0.0159]

I(n-1)<=133.75 & PMNR<=0 -> release=nil
[Coverage=0.101; RHS Coverage=0.122; Support=0.044; Strength estimate=0.428; Lift estimate=3.51; Leverage=0.0322; p=0.0225]

St<=155.50 & I(n-1)<=133.75 -> release=nil
[Coverage=0.300; RHS Coverage=0.122; Support=0.119; Strength estimate=0.394; Lift estimate=3.24; Leverage=0.0829; p=1.75E-029]

St<=155.50 -> release=nil
[Coverage=0.300; RHS Coverage=0.122; Support=0.098; Strength estimate=0.325; Lift estimate=2.67; Leverage=0.0619; p=5.58E-016]
PMNR<=0 -> release=nil
[Coverage=0.372; RHS Coverage=0.122; Support=0.115; Strength estimate=0.306; Lift estimate=2.51; Leverage=0.0694; p=3.37 E-020]

38.25<PMNR<=50.50 -> release=full
[Coverage=0.372; RHS Coverage=0.122; Support=0.119; Strength estimate=0.302; Lift estimate=2.45; Leverage=0.0634; p=3.37 E-020]

I(n-1)<=133.75 -> release=nil
[Coverage=0.157; RHS Coverage=0.122; Support=0.044; Strength estimate=0.279; Lift estimate=2.29; Leverage=0.0254; p=6.20 E-005]

31.25<PMNR<=38.25 -> release=high
[Coverage=0.162; RHS Coverage=0.122; Support=0.040; Strength estimate=0.243; Lift estimate=1.99; Leverage=0.020; p=0.00122]

0<PMNR<=31.25 -> release=medium
[Coverage=0.372; RHS Coverage=0.122; Support=0.095; Strength estimate=0.232; Lift estimate=1.74; Leverage=0.0286; p=0.000123]

St<=155.50 & 175.50<I(n-1)<=182.00 & PMNR<=0 -> release=medium
[Coverage=0.372; RHS Coverage=0.122; Support=0.075; Strength estimate=0.200; Lift estimate=1.64; Leverage=0.0296; p=0.000131]
St\leq 155.50 \& 175.50 < I(n-1) \leq 182.00 \& 31.25 < \text{PMNR} \leq 38.25 \rightarrow \text{release=high}

[Coverage=0.162; RHS Coverage=0.020; Support=0.009; Strength estimate=0.057; Lift estimate=2.70; Leverage=0.0060; p=0.0416]

St\leq 155.50 \& I(n-1) > 182.00 \& 0 < \text{PMNR} \leq 31.25 \rightarrow \text{release=high}

[Coverage=0.300; RHS Coverage=0.021; Support=0.014; Strength estimate=0.046; Lift estimate=2.21; Leverage=0.0077; p=0.0239]

1.5 CLASS ASSOCIATION RULES FOR THE MONTH DECEMBER

Magnum Opus - The leader in pattern discovery technology.
Version 4.0

Names file: thesisdec.names
Data file: thesisdec.data

Search for rules
Search by strength
Filter out rules that are insignificant, critical value=0.05
Use m-estimate, m = 2
Only 12 rules satisfy the specified constraints.

S_{\text{may}>45} \& 145.50 < \text{PMNI} \leq 176.70 \rightarrow \text{release=full}
PMNR > 87.80 -> release = full
[Coverage=0.181; RHS Coverage=0.826; Support=0.181; Strength estimate=0.997; Lift estimate=1.21; Leverage=0.0314; p=1.04 E-010]

PMNR > 87.80 -> release = full
[Coverage=0.162; RHS Coverage=0.826; Support=0.162; Strength estimate=0.996; Lift estimate=1.21; Leverage=0.0282; p=1.39 E-009]

PMNI > 197.50 -> release = full
[Coverage=0.132; RHS Coverage=0.826; Support=0.130; Strength estimate=0.983; Lift estimate=1.19; Leverage=0.0213; p=1.74 E-006]

PMNR <= 0 & PMNI <= 145.50 -> release = medium
[Coverage=0.079; RHS Coverage=0.085; Support=0.028; Strength estimate=0.350; Lift estimate=4.11; Leverage=0.0217; p=1.98 E-008]

PMNI <= 145.50 & 0 < PMNR <= 60 -> release = high
[Coverage=0.263; RHS Coverage=0.089; Support=0.048; Strength estimate=0.184; Lift estimate=2.07; Leverage=0.0252; p=0.0242]
S\text{may} \leq 45 \& 176.70 \leq \text{PMNI} \leq 197.50 \rightarrow \text{release}=\text{medium}

[\text{Coverage}=0.263; \text{RHS Coverage}=0.085; \text{Support}=0.045; \text{Strength estimate}=0.171; \text{Lift estimate}=2.00; \text{Leverage}=0.0228; p=0.0366]

S\text{may}>45 \& \text{PMNI} \leq 145.50 \rightarrow \text{release}=\text{high}

[\text{Coverage}=0.635; \text{RHS Coverage}=0.089; \text{Support}=0.089; \text{Strength estimate}=0.139; \text{Lift estimate}=1.57; \text{Leverage}=0.0323; p=8.75 \times 10^{-12}]

60 \leq \text{PMNR} \leq 87.80 \rightarrow \text{release}=\text{high}

[\text{Coverage}=0.258; \text{RHS Coverage}=0.089; \text{Support}=0.035; \text{Strength estimate}=0.136; \text{Lift estimate}=1.53; \text{Leverage}=0.0123; p=0.0144]

\text{PMNR} \leq 0 \& \text{PMNI} > 145.50 \rightarrow \text{release}=\text{full}

[\text{Coverage}=0.635; \text{RHS Coverage}=0.085; \text{Support}=0.084; \text{Strength estimate}=0.131; \text{Lift estimate}=1.54; \text{Leverage}=0.0294; p=8.40 \times 10^{-10}]

S\text{may} \leq 45 \& 145.50 \leq \text{PMNI} \leq 176.70 \rightarrow \text{release}=\text{medium}

[\text{Coverage}=0.487; \text{RHS Coverage}=0.085; \text{Support}=0.052; \text{Strength estimate}=0.106; \text{Lift estimate}=1.25; \text{Leverage}=0.0103; p=0.0478]

1.6 \textbf{CLASS ASSOCIATION RULES FOR THE MONTH JANUARY}

Magnum Opus - The leader in pattern discovery technology.

Version 4.0

Names file: thesisjan.names
Data file: thesisjan.data

Search for rules
Search by strength
Filter out rules that are insignificant, critical value=0.05
Use m-estimate, m = 2
Only 9 rules satisfy the specified constraints.

S\text{may} \leq 49 & PMNR > 112.50 \rightarrow \text{release=full}
\text{[Coverage=0.185; RHS Coverage=0.820; Support=0.184; Strength estimate=0.988; Lift estimate=1.21; Leverage=0.0317; p=0.000440]}

PMNI > 169 \rightarrow \text{release=full}
\text{[Coverage=0.616; RHS Coverage=0.820; Support=0.604; Strength estimate=0.980; Lift estimate=1.20; Leverage=0.0994; p=1.25 E-040]}

S\text{may} \leq 49 & 103 < PMNR \leq 112.50 \rightarrow \text{release=high}
\text{[Coverage=0.057; RHS Coverage=0.820; Support=0.053; Strength estimate=0.934; Lift estimate=1.14; Leverage=0.0069; p=0.0373]}

S\text{may} \leq 49 & PMNR \leq 103 \rightarrow \text{release=medium}
\text{[Coverage=0.564; RHS Coverage=0.820; Support=0.523; Strength estimate=0.925; Lift estimate=1.13; Leverage=0.0600; p=8.92 E-015]}

49 \leq S\text{may} \leq 64.30 & 112 < PMNI \leq 169.90 \rightarrow \text{release=medium}
\text{[Coverage=0.015; RHS Coverage=0.090; Support=0.012; Strength estimate=0.653; Lift estimate=7.24; Leverage=0.0103; p=0.0445]}
PMNI<=78.75 -> release=medium
[Coverage=0.008; RHS Coverage=0.090; Support=0.007; Strength estimate=0.597; Lift estimate=6.62; Leverage=0.0059; p=0.000278]

Smay>49 & 78.75<PMNI<=112 -> release=medium
[Coverage=0.078; RHS Coverage=0.090; Support=0.043; Strength estimate=0.534; Lift estimate=5.93; Leverage=0.0363; p=3.60E-018]

Smay>64.30 & 112<PMNI<=169 -> release=high
[Coverage=0.028; RHS Coverage=0.090; Support=0.015; Strength estimate=0.483; Lift estimate=5.36; Leverage=0.0125; p=2.84E-006]

49<Smay<=64.30 -> release=medium
[Coverage=0.371; RHS Coverage=0.090; Support=0.075; Strength estimate=0.202; Lift estimate=2.24; Leverage=0.0417; p=3.21E-013]