Kendra Maggiore

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Assignment 3

|  |  |  |
| --- | --- | --- |
| a | 1 | 20% |
| c | 2 | 40% |
| d | 1 | 20% |
| e | 4 | 80% |
| i | 1 | 20% |
| k | 5 | 100% |
| m | 3 | 60% |
| n | 2 | 40% |
| o | 3 | 60% |
| u | 1 | 20% |
| y | 3 | 60% |

|  |  |  |
| --- | --- | --- |
| e | 4 | 80% |
| k | 5 | 100% |
| m | 3 | 60% |
| o | 3 | 60% |
| y | 3 | 60% |

1. A.

On

the left is C1 on the 1st scan on the right is the table with the support above 60%. Below the one on the left is C2 scan2, and on the right is what is left.

|  |  |  |
| --- | --- | --- |
| {e,k} | 4 | 80% |
| {e,m} | 2 | 40% |
| {e,o} | 3 | 60% |
| {e,y} | 2 | 40% |
| {k,m} | 3 | 60% |
| {k,o} | 3 | 60% |
| {k,y} | 3 | 60% |
| {m,o} | 1 | 20% |
| {m,y} | 2 | 40% |
| {o,y} | 2 | 40% |

|  |  |  |
| --- | --- | --- |
| {e,k} | 4 | 80% |
| {e,o} | 3 | 60% |
| {k,m} | 3 | 60% |
| {k,o} | 3 | 60% |
| {k,y} | 3 | 60% |

|  |  |  |
| --- | --- | --- |
| {e,k,o} | 3 | 60% |
| {e,o,y} | 2 | 40% |

The set below to the left is the C3 set, and the one on the right is the L3 set

|  |  |  |
| --- | --- | --- |
| {e,k,o} | 3 | 60% |

B. There would be one strong association rule that would have above 80% confidence

K ∩ O ->E with confidence 3/3= 100%

E ∩ O ->K with confidence 3/3= 100%

1. A. {a,b,c,d} is the only max-pattern

B. {a,b} : 14

{a,c}: 11

{a,d}: 13

{b,c}: 11

{b,d}: 13

{c,d}: 9

{a,b,c}:11

{a,b,d}:13

{a,b,c,d}:9