Lê Văn Tài

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Nhóm 6

A table with numbers and symbols

AI-generated content may be incorrect.

Minsupp = 0.3

Database TDB

Scan TDB được lần thứ nhất

|  |  |
| --- | --- |
| Tid | Items |
| T1 | i1, i7, i8 |
| T2 | i1, i2, i6, i7, i8 |
| T3 | i1, i2, i6, i7 |
| T4 | i1, i7, i8 |
| T5 | i3, i4, i5, i6, i8 |
| T6 | i1, i4, i5 |

|  |  |
| --- | --- |
| Itemset | minsupp |
| {i1} | 0.83 |
| {i2} | 0.33 |
| {i4} | 0.33 |
| {i5} | 0.33 |
| {i6} | 0.5 |
| {i7} | 0.67 |
| {i8} | 0.67 |

|  |  |
| --- | --- |
| Itemset | minsup |
| {i1} | 0.83 |
| {i2} | 0.33 |
| {i4} | 0.33 |
| {i5} | 0.33 |
| {i6} | 0.5 |
| {i7} | 0.67 |
| {i8} | 0.67 |

Scan lần thứ 2

|  |  |
| --- | --- |
| Itemset | minsup |
| {i1, i2} | 0.33 |
| {i1, i6} | 0.33 |
| {i1, i7} | 0.5 |
| {i1, i8} | 0.67 |
| {i2,i6} | 0.33 |
| {i2,i7} | 0.33 |
| {i4,i5} | 0.33 |
| {i6,i7} | 0.33 |
| {i6,i8} | 0.33 |
| {i7,i8} | 0.5 |

Scan lần thứ 3

|  |  |
| --- | --- |
| Itemset | minsup |
| {i1, i2} | 0.33 |
| {i1, i6} | 0.33 |
| {i1, i7} | 0.5 |
| {i1, i8} | 0.67 |
| {i2,i6} | 0.33 |
| {i2,i7} | 0.33 |
| {i4,i5} | 0.33 |
| {i6,i7} | 0.33 |
| {i6,i8} | 0.33 |
| {i7,i8} | 0.5 |

|  |  |
| --- | --- |
| Itemset | minsup |
| {i1, i2, i6} | 0.33 |
| {i1, i2, i7} | 0.33 |
| {i1, i6, i7} | 0.33 |
| {i1,i7,i8} | 0.5 |
| {i2,i6,i7} | 0.33 |

Scan lần thứ 4

|  |  |
| --- | --- |
| Itemset | minsup |
| {i1, i2, i6} | 0.33 |
| {i1, i2, i7} | 0.33 |
| {i1, i6, i7} | 0.33 |
| {i1,i7,i8} | 0.5 |
| {i2,i6,i7} | 0.33 |

|  |  |
| --- | --- |
| Itemset | minsup |
| {i1, i2, i6,i7} | 0.33 |

Câu a)

Frequent patterns: {i1}, {i2}, {i4}, {i5}, {i6}, {i7}, {i8}, {i1,i2}, {i1,i6}, {i1,i7}, {i1,i8}, {i2, i6}, {i2, i7}, {i4, i5}, {i6, i7}, {i6, i8}, {i7, i8}, {i1, i2, i6} ,{i1,i2,i7}, {i1,i6,i7}, {i1,i7,i8}, {i2,i6,i7}, {i1,i2,i6,i7} .

Câu b)

Max – patterns: {i4, i5}, {i6, i8}, {i1,i7,i8}, {i1,i2,i6,i7} .

Câu c)

i4 -> i5 (0.3, 1)

i5 -> i4 (0.3 ,1)

i6 -> i8 (0.3, 0.67)

i8 -> i6 (0.3, 0.5)

i1 -> i7,i8 (0.5, 0.6)

i7,i8 -> i1 (0.5, 1)

i1,i7 -> i8 (0.5, 0.75)

i8 -> i1,i7 (0.5,0.75)

i1,i8 -> i7 (0.5, 1)

i7 -> i1,i8 (0.5, 0.75)

i1 -> i2, i6, i7 (0.33, 0.4)

i2, i6, i7 → i1 (0.33, 1)

i2 -> i1, i6, i7 (0.33, 1)

i1, i6, i7 → i2 (0.33, 1)

i6 -> i1, i2, i7 (0.33, 0.67)

i1, i2, i7 → i6 (0.33, 1)

i7 -> i1, i2, i6 (0.33, 1)

i1, i2, i6 → i7 (0.33, 1)

i1, i2 -> i6, i7 (0.33, 1)

i6, i7 -> i1, i2 (0.33, 1)

i1, i6 -> i2, i7 (0.33, 1)

i2, i7 -> i1, i6 (0.33, 1)

i1, i7 -> i2, i6 (0.33, 0.5)

i2, i6 -> i1, i7 (0.33, 1)

Find all of the association rules that came from max-patterns in question b:

i4 -> i5 (0.3, 1)

i5 -> i4 (0.3 ,1)

i7,i8 -> i1 (0.5, 1)

i1,i8 -> i7 (0.5, 1)

i2, i6, i7 → i1 (0.33, 1)

i2 -> i1, i6, i7 (0.33, 1)

i1, i6, i7 → i2 (0.33, 1)

i1, i2, i7 → i6 (0.33, 1)

i7 -> i1, i2, i6 (0.33, 1)

i1, i2, i6 → i7 (0.33, 1)

i1, i2 -> i6, i7 (0.33, 1)

i6, i7 -> i1, i2 (0.33, 1)

i1, i6 -> i2, i7 (0.33, 1)

i2, i7 -> i1, i6 (0.33, 1)

i2, i6 -> i1, i7 (0.33, 1)