Blatt 8 Aufgabe 2

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A)

TID	A	В	$ \mathbf{C} $	$\mid \mathbf{D} \mid$	\mathbf{E}	\mathbf{F}
1	1	1	1	0	0	0
2	0	1	0	0	1	1
3	1	0	1	0	1	0
4	1	0	0	0	0	0
5	0	1	0	0	0	0
6	0	0	0	1	0	1
7	0	1	0	0	1	0
8	1	1	1	0	1	1
9	1	0	0	1	0	0
10	1	0	0	0	1	1

B)

Aus einer minfreq = 0, 25 resultieren folgende Itemsets:

$${A},{B},{C},{E},{F},{AC},{BF},{AE},{EF},{BE}$$

$$C$$
) Support =

$$supp(\{A\} \to \{B, C\}) = supp(\{A\} \cup \{B, C\})$$

$$= supp(\{A, B, C\}) = |\{t \in D : t \text{ enthlt } X\}| = |\{t_1, t_8\}| = 2$$

$$Konfidenz = supp(\frac{supp(\{A, B, C\})}{supp(\{A\})}) = \frac{2}{6} = \frac{1}{3}$$

D)

$$minsupp = 2$$

Startmenge $F_1 = \{A,B,C,D,E,F\}$

Generiere
$$F_2 = nicht \ nach \ F_{k-1} \times F_k \ mglich$$

 $C_2 = \{\{AB\}, \{AC\}, \{AD\}, \{AE\}, \{AF\}, \{BC\}, \{BD\}, \{BE\}, \{CD\}, \{CE\}, \{CF\}, \{DE\}, \{DF\}, \{EF\}\}$
 $F_2 = \{\{AB\}, \{AC\}, \{AF\}, \{BC\}, BE\}, \{EF\}\}$