

# Blatt 8 Aufgabe 2

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A)

TID	A	B	C	D	E	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)

$$\begin{aligned} Support &= supp(\{A\} \rightarrow \{B, C\}) = supp(\{A\} \cup \{B, C\}) \\ &= supp(\{A, B, C\}) = |\{t \in D : t \text{ enthlt } X\}| = |\{t_1, t_8\}| = 2 \end{aligned}$$

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