

INF 493/792/790

Introdução à mineração de dados

Aula XXVII: Padrões Frequentes

Representação do banco de dados

D	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>
1	1	1	0	1	1
2	0	1	1	0	1
3	1	1	0	1	1
4	1	1	1	0	1
5	1	1	1	1	1
6	0	1	1	1	0

(a) Binary database

Representação do banco de dados

D	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>
1	1	1	0	1	1
2	0	1	1	0	1
3	1	1	0	1	1
4	1	1	1	0	1
5	1	1	1	1	1
6	0	1	1	1	0

(a) Binary database

<i>t</i>	i(t)
1	<i>ABDE</i>
2	<i>BCE</i>
3	<i>ABDE</i>
4	<i>ABCE</i>
5	<i>ABCDE</i>
6	<i>BCD</i>

(b) Transaction database

Representação do banco de dados

D	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>
1	1	1	0	1	1
2	0	1	1	0	1
3	1	1	0	1	1
4	1	1	1	0	1
5	1	1	1	1	1
6	0	1	1	1	0

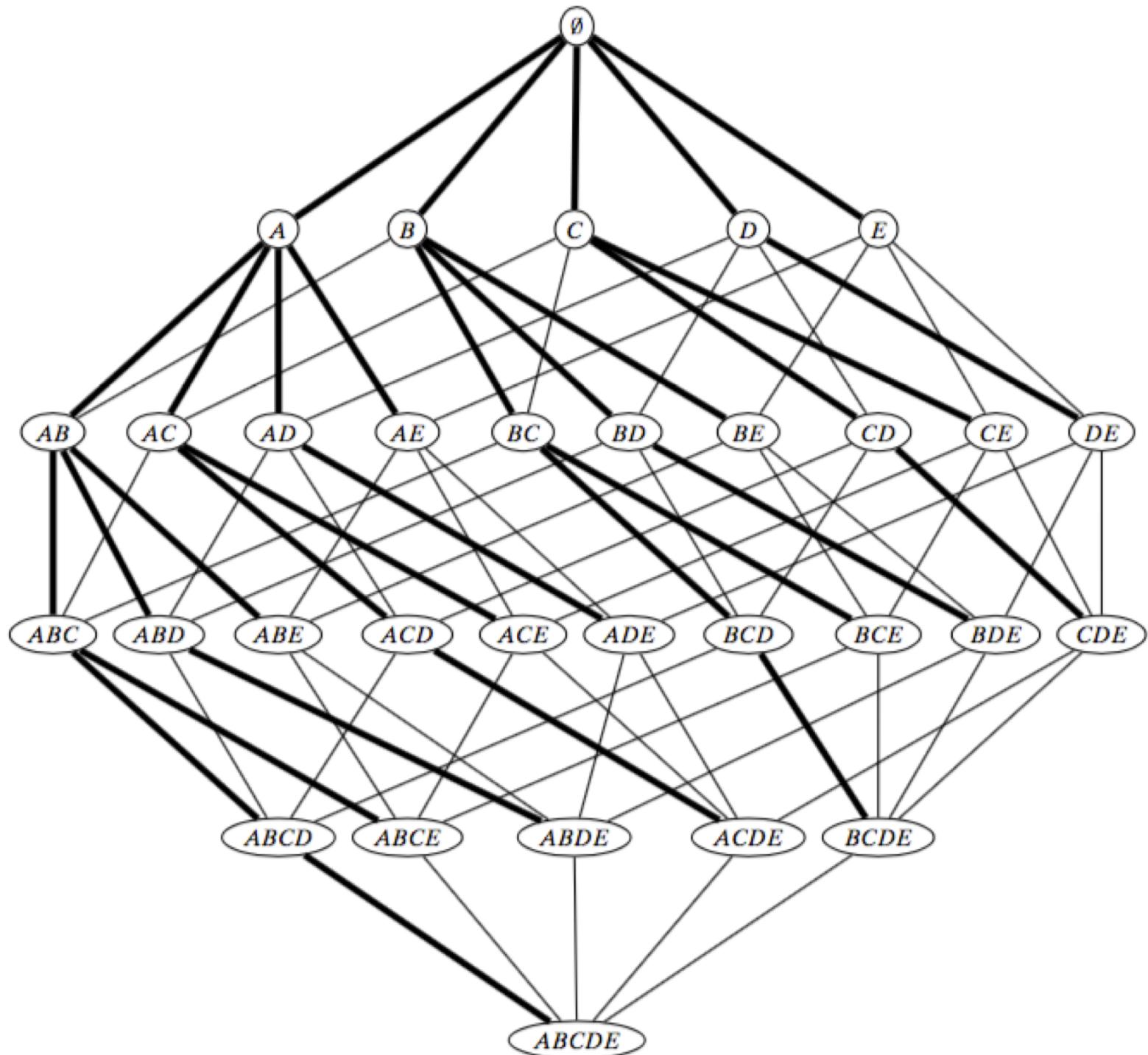
(a) Binary database

<i>t</i>	i(t)
1	<i>ABDE</i>
2	<i>BCE</i>
3	<i>ABDE</i>
4	<i>ABCE</i>
5	<i>ABCDE</i>
6	<i>BCD</i>

(b) Transaction database

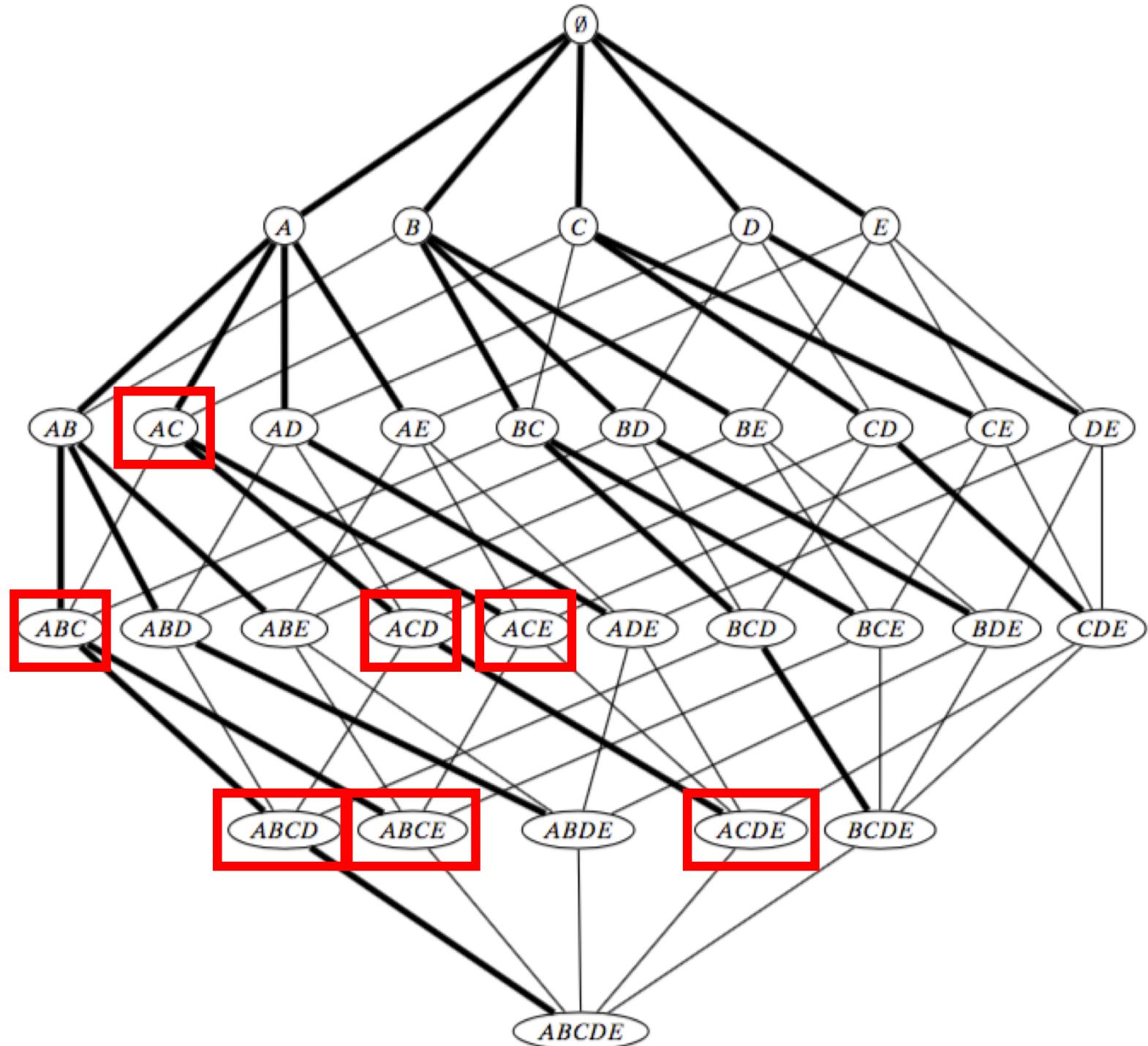
<i>x</i>	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>
	1	1	2	1	1
	3	2	4	3	2
t(x)	4	3	5	5	3
	5	4	6	6	4
		5			5
		6			

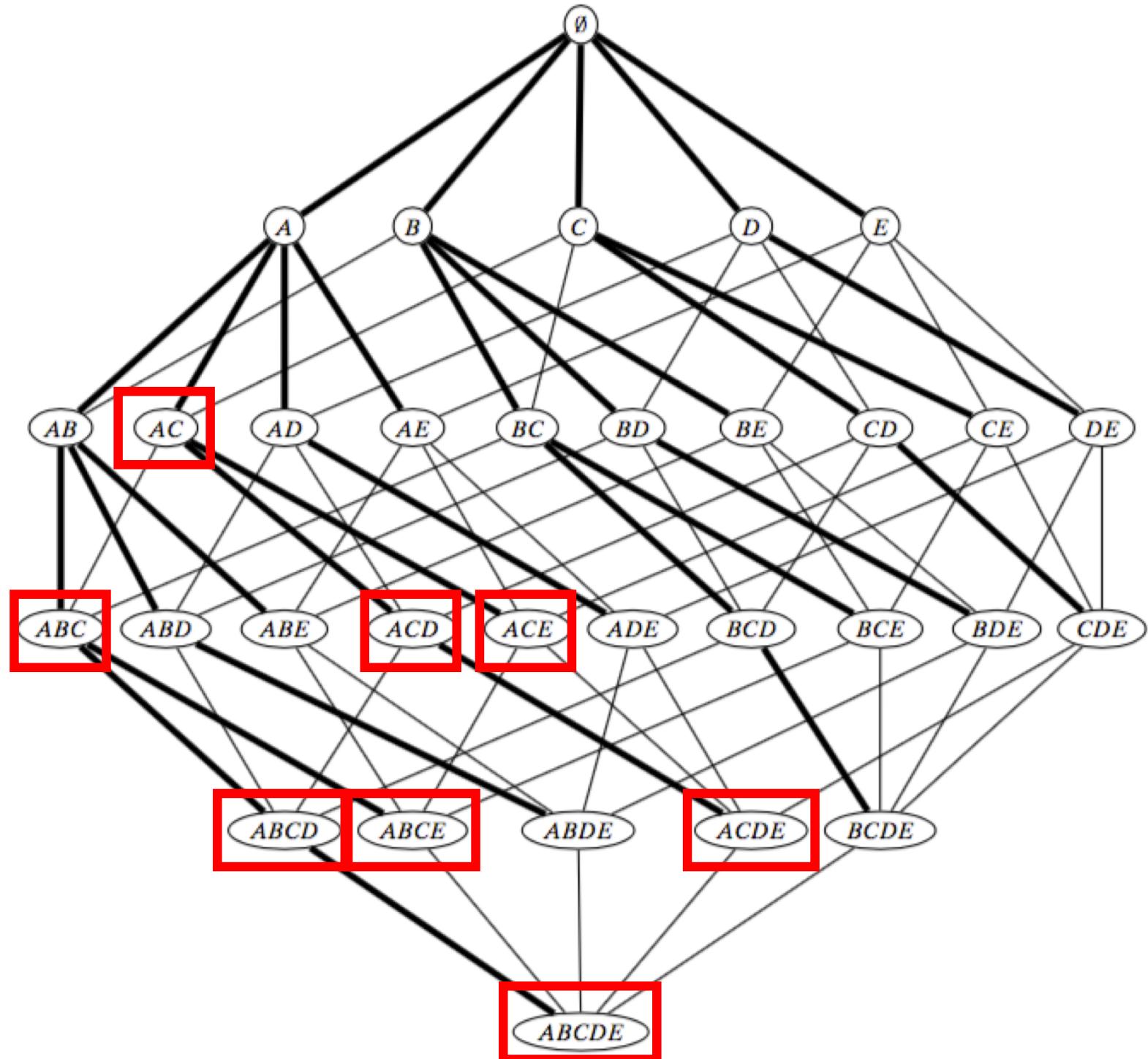
(c) Vertical database

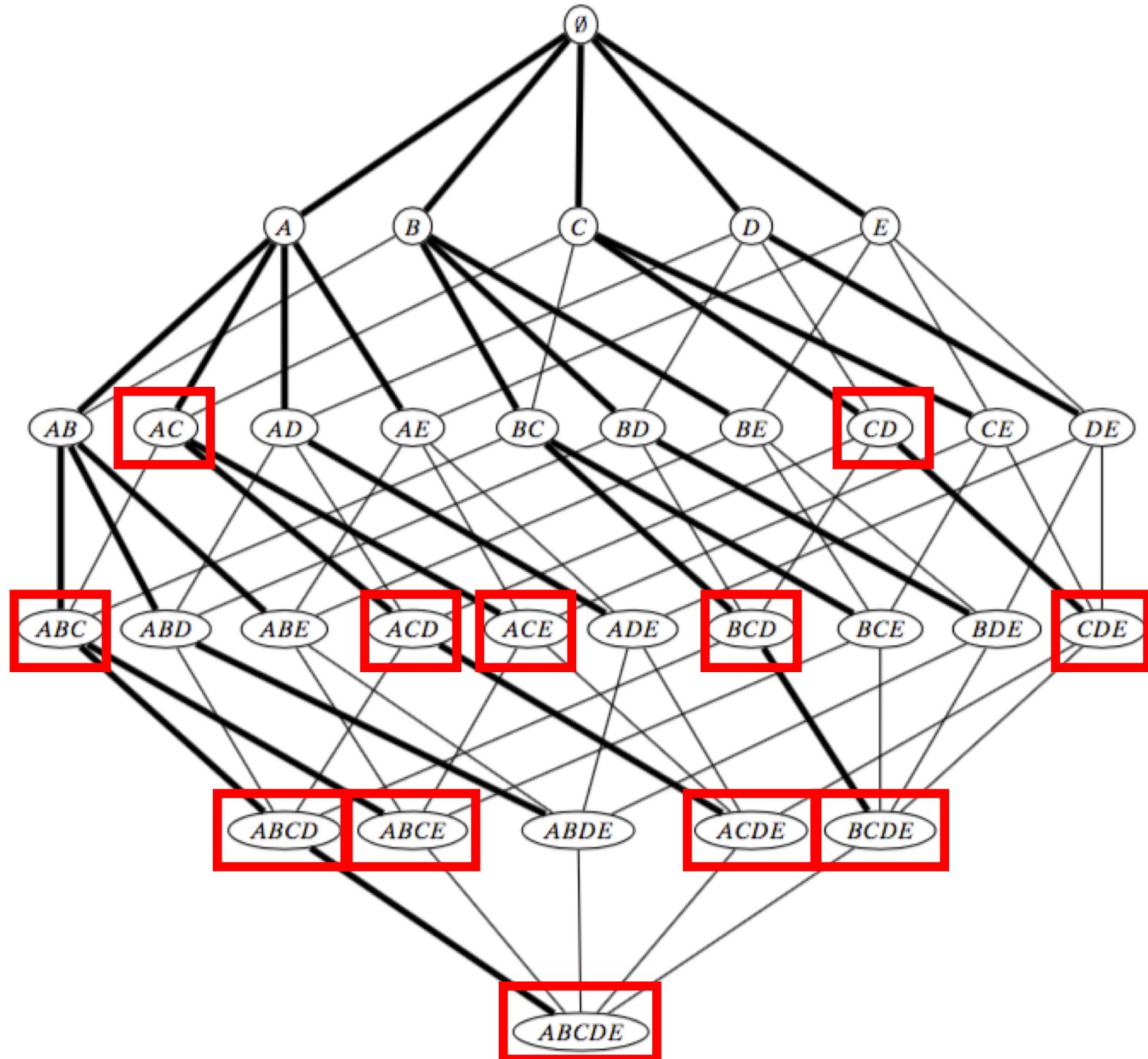


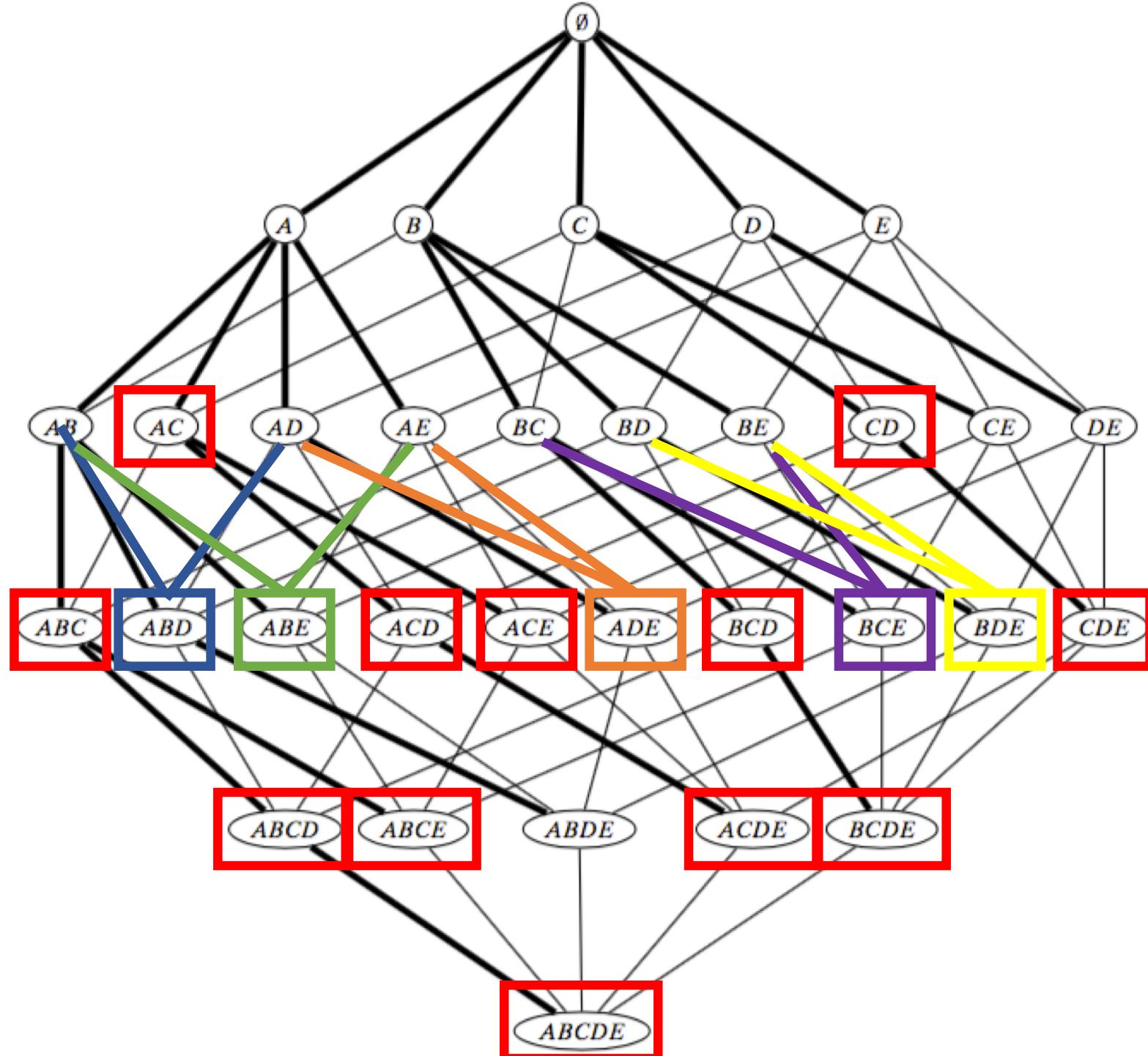


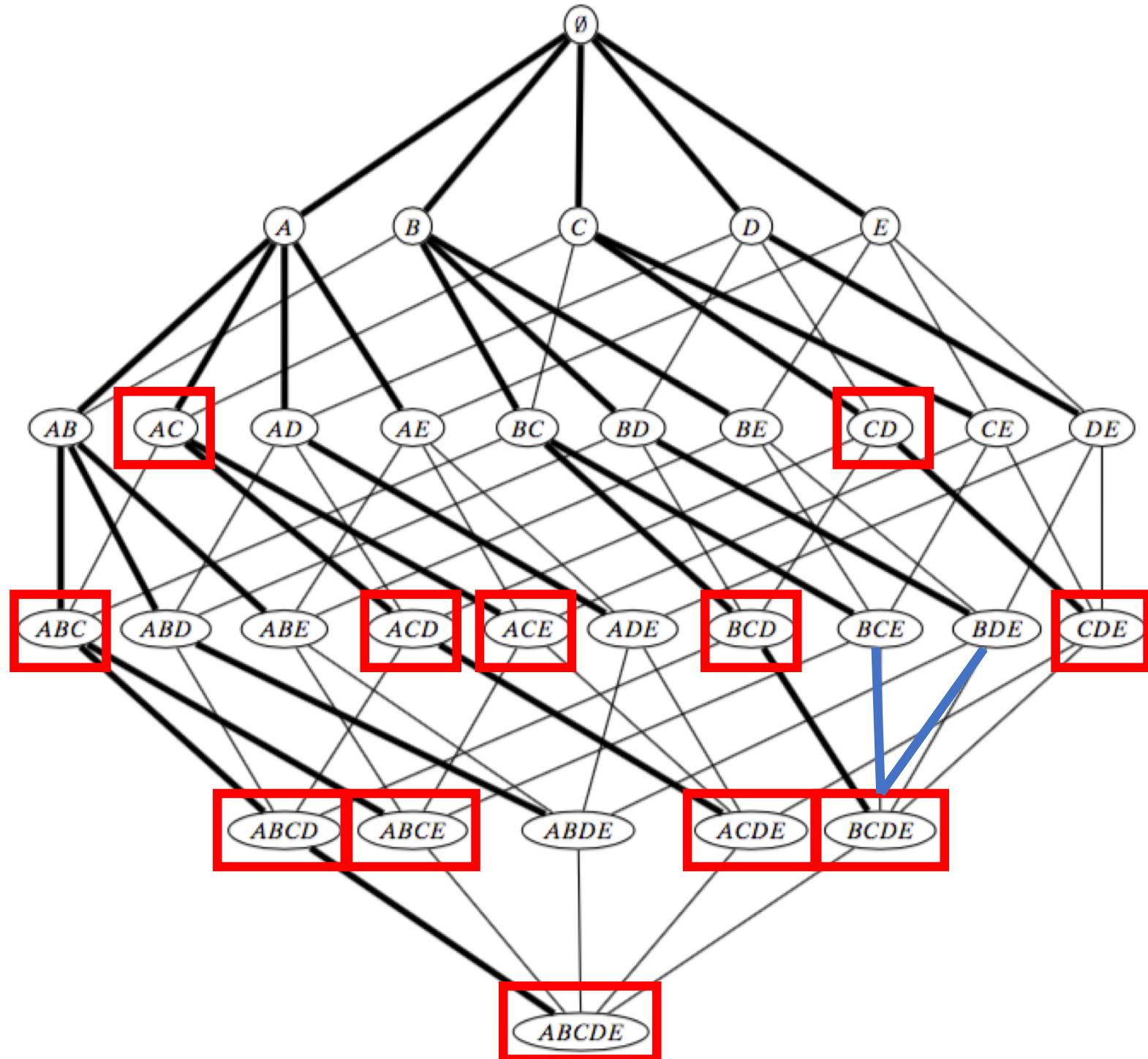


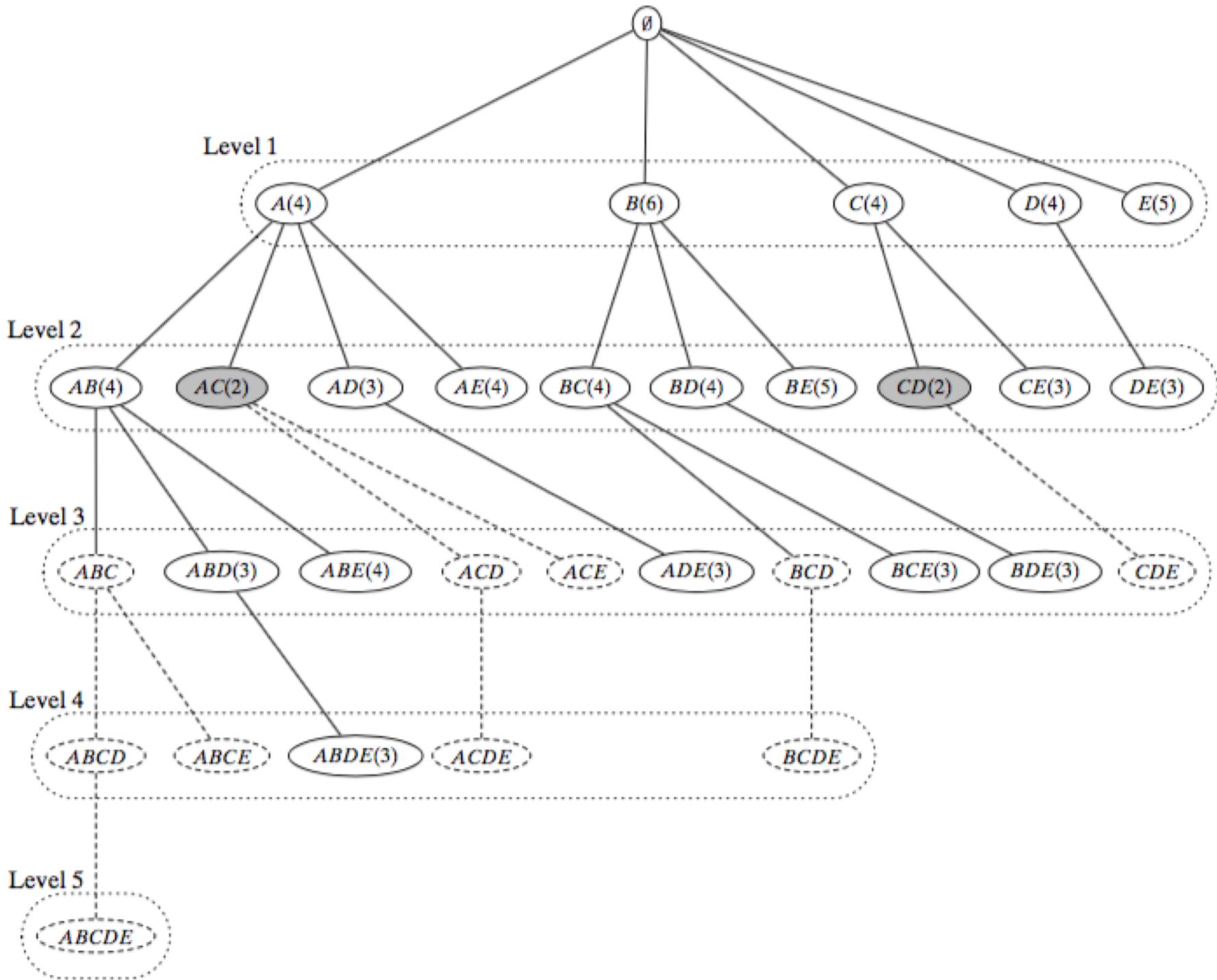












Referência

<http://www.dataminingbook.info/pmwiki.php>

Capítulos 8 e 9

https://www.it.uu.se/edu/course/homepage/infoutv/ht08/vldb94_rj.pdf

Fast Algorithms for mining association rules

http://rasbt.github.io/mlxtend/user_guide/frequent_patterns/apriori/

http://rasbt.github.io/mlxtend/user_guide/frequent_patterns/association_rules/

Uma biblioteca em Python para parões frequentes e regras de associação