

The version of the answers is non-redundancy

Exercise 3.2.2

(i) S(A,B,C,D) with FD's A->B,B->C,B->D.

a.

$A \rightarrow B, A \rightarrow C, A \rightarrow D, B \rightarrow C, B \rightarrow D$

b.

A

c.

$AB, AC, AD, ABC, ACD, ABD, ABCD$

(ii) T(A,B,C,D) with FD's AB->C,BC->D,CD->A,and AD->B.

a.

$AB \rightarrow C, AB \rightarrow D, AD \rightarrow C, AD \rightarrow B, BC \rightarrow A, BC \rightarrow D, CD \rightarrow A, CD \rightarrow B$

b.

AB, AD, BC, CD

c.

$ABC, ABD, ACD, BCD, ABCD$

(iii) U(A,B,C,D) with FD's A->B,B->C,C->D,D->A.

a.

$A \rightarrow B, A \rightarrow C, A \rightarrow D, B \rightarrow C, B \rightarrow D, B \rightarrow A, C \rightarrow D, C \rightarrow B, C \rightarrow A, D \rightarrow A, D \rightarrow C, D \rightarrow B$

b.

A, B, C, D

c.

$AB, AC, AD, BC, BD, CD, ABC, ABD, ACD, BCD, ABCD$

Exercise 3.2.10

b) $A \rightarrow D$, $BD \rightarrow E$, $AC \rightarrow E$, and $DE \rightarrow B$.

$AC \rightarrow B$

c) $AB \rightarrow D$, $AC \rightarrow E$, $BC \rightarrow D$, $D \rightarrow A$, and $E \rightarrow B$.

$AC \rightarrow B$, $BC \rightarrow A$

d) $A \rightarrow B$, $B \rightarrow C$, $C \rightarrow D$, $D \rightarrow E$, and $E \rightarrow A$.

$A \rightarrow B$, $B \rightarrow C$, $C \rightarrow A$

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