

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

$\Rightarrow A \rightarrow D$

$\mathcal{D}_1(A, D)$
 $A \rightarrow D$
 BCNF ✓

$\mathcal{D}_2(A, B, C)$
 $A \rightarrow BC$
 ~~$A \rightarrow B$~~
 ~~$A \rightarrow C$~~



3.4.

$A \rightarrow BC$

$\nearrow A \rightarrow B$
 $\searrow A \rightarrow C$

$ACD \rightarrow E$

$B \rightarrow D$

$C \rightarrow D$

$E \rightarrow B \rightarrow E \rightarrow B$

$\rightarrow E \rightarrow C$

transitivitas: $A \rightarrow B \wedge B \rightarrow D \Rightarrow A \rightarrow D$

$A \rightarrow C \wedge C \rightarrow D \Rightarrow A \rightarrow D$



pseudot.: $ACD \rightarrow E \Rightarrow A \rightarrow E$

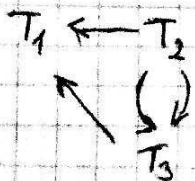
8.

T_i read es T_k write $\Rightarrow T_i \rightarrow T_k$

T_i write es T_k read $\Rightarrow T_i \rightarrow T_k$

T_i write es T_k write $\Rightarrow T_i \rightarrow T_k$

\exists kor \Rightarrow new conflict serializable



Lock: minden Read es Write elé lock

Lock S(x) \rightarrow Read

Lock X(x) \rightarrow Write

(validsz)