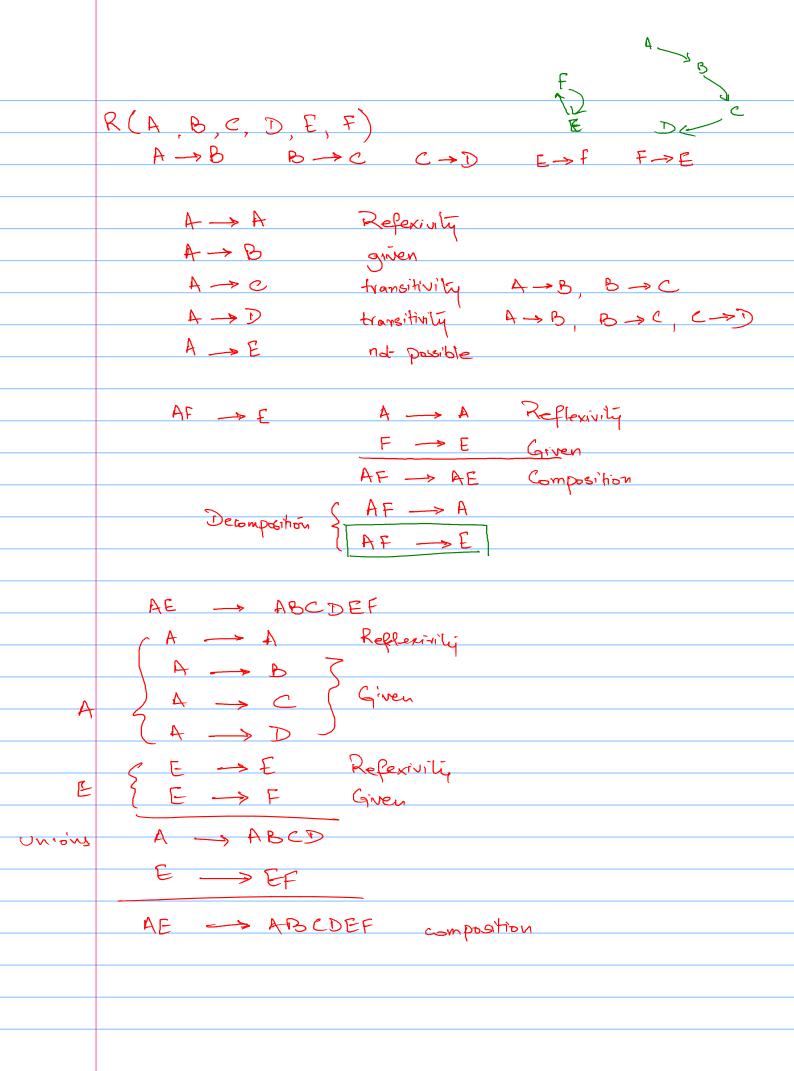


	Armstrong Axioms	
	f B C A then	name, age, address -> rage
	$A \longrightarrow B$	
	Reflexivity	
	$\rightarrow$ $\rightarrow$ $\rightarrow$	
	A -> B then	name -> Sek
	AX -> BX	name, age -> sex, a
	Augumentation	<b>N</b>
_3, \ <u></u>	f A → B and B → C then	2011# → name
	$A \rightarrow C$	name → sex
	Transitivity	201# →> Sex
4. 39	$A \rightarrow B$ & $A \rightarrow C$ then	95 H → name
	$A \rightarrow BC$	2011# → address
	Union	Soll # → name add
	· · · · · · · · · · · · · · · · · · ·	)
5. JP	A -> B & X -> Y then	Joll # → 8, name
<u> </u>	$Ax \rightarrow by$	$\frac{\text{cid}}{} \rightarrow \text{t.name}$
	Composition	lell#, Cid → S.name, +
,   dt	DAX_ QV A	and the second s
-b.   ~ 1	$A \times \rightarrow B \times A \times$	roll# cid - s. namethane,
	$A \times \rightarrow B$ $A \times \rightarrow Y$	sul#, cid → s. norme
	Deamposition	Roll, cid - Frame
	leverse of Union	soll# cid - grade
7. SP	P A→B & BC → D then	
	$Ac \rightarrow 0$	
	Pseudo Transitivity	



Closure

R(A,B,C,D,E)  $A \rightarrow BC$   $C \rightarrow B$   $D \rightarrow E$   $E \rightarrow D$ 

 $D_{A^{+}} \longrightarrow ABC$ 3 ABC BAB - ABC ACT
ADT -> ADBCE  $B^{\dagger} \rightarrow B$ ABD C+ -> CB ABET AET - AEBCD ACDT D' -> DE ET -> ED ACE BDT -> BDE ADET BET Best CDF BCET CE BDE DET CDF

ABORT
ABORT
ABORT
ABORT
ACDET
BCDET

# of possible combinations = 2 -1

Superten : Set of affiliables almose above contain affailables of Rolation

HW-1 DR(ABC,DE)  $A \rightarrow BC$ ,  $C \rightarrow B$ ,  $D \rightarrow E$ ,  $E \rightarrow D$  $\begin{array}{cccc}
R(A & B & C & D & E) \\
A & \rightarrow B & B & \rightarrow C & D & \rightarrow C
\end{array}$ Find closure of all possible combinations also identify superkeys