Name: Muhammad Uzair ROLL NO. LIFIBBSCS0311 Section - H Database Assignment 5 R(A,B,C,O,E,F,G,H,T)FD: {AB >C, BO >EF, AD >GH, A >T} Middle Right Not exists Left H $(A)^{+} = AI$ (B)+ 1= $(0)^{+} = 0$ (AB)+ 1= ABCI (AD)+ 1= ADGHI (ABO) + 1= ABCDEFGHI (S.K) (C.K) (ABDC)+ = ABCDEFGHT (S.K) (ABDE)+1= ABCDEFGHI (S.K) (ABDF)+1= ABCDEFGHI (SOK) (ABDG) 1= ABCDEFGHI (S.K) (ABDH)+ 1= ABCDEFGHT (S.K) (ABOI)+1= ABCDEFGHI (S.K) [ABDCEFGHT] = ABCDEFGHT [S.K)

ocannicu with cal

gad ^a and					
	(b)				
	R(Y,W,X,Y,Z)				
	FO: {X -> YV, Y-> Z, Z-> Y, VW-> X }				
	Not exists	Left	Middle	Right	
he .		W	V		
			×		
			У		
			Z		
	(,)		4		
	$(W)^{+}$ $=$		(1	
	(MV)+ 1= VMXYZ (SoK) (CoK)				
	$(M \times)^{+} = V$		(S.C)		
	$(wx)^{\dagger} = wxz$				
	$(WZ)^{+} = WYZ$				
	(MUXXXS)+ 1= NMXXX (8.K) (C.K)				

	$\frac{C}{C}$			
	R(A,B,C,D,E,F) $FD: \{ABC\rightarrow D,ABD\rightarrow F,CD\rightarrow F,CDF\rightarrow B,BF\rightarrow D\}$			
	FD. (AISCOD, FISO) L, CO) J			
	Not exists left Middle Right			
	A B E			
	C			
	F			
	$(A)^+ = A$			
	$(c)^{+} = c$			
	$(AC)^{\dagger} = AC$ $(ACR)^{\dagger} = ABCDEF (S.K)(C.K).$			
,	(ACIS)			
	+ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$			
-	THUIST THE PROPERTY (C.K)			
	(ACBOF) THISCOL (S.IC)			
	(ACBOFE)			
-				

B(A,B,C) $ED: \{A\rightarrow B, B\rightarrow C, C\rightarrow A\}$ Not exists Left Middle Right (A)+ 1= ABC (S.K) (C.K) $(R)^{+} = ABC \qquad (S \circ IC) \quad (C \circ K)$ $(C)^{+} = ABC \qquad (S \circ K) \quad (C \circ K)$ (AB)+ 1= {ABC} (S.K) (AC)+ 1= {ABC} (S.K) (ABC)+ 1= ABC (S-1()

(e)
R(ABCOEH)
FO: {A >B, BC > D, E -> C, O -> A }
Not exists Left Middle Right
 H
B
 D
 $(H)^{+} = H$
$(HA)^{+} = ABH$
$(HB)^{+} = HB$
$\frac{(HC)^{+}}{(HC)^{+}} = HC$
$\frac{(HD)^{+}}{(HD)^{+}} = ABDH$
(HARCD)+1= ABCDH (S.K) (C.K)