1. Given F = {a→b, b→c, c→ {d,e}}. What is the closure of b?
   $b^+ = \{b, c, d, e\}$

2. Given R(a,b,c,d,e,f). Given the following functional dependency:
   F = {ab→ cdef, c → abdef}.
   Identify the L M R, candidate keys, prime/non prime and normal form using the table below

L	M	R		Candidate Keys		prime	Non prime		Normal Form
	a	d		ab		a	d		BCNF
	b	e		c		b	e		
	c	f				c	f		

3. Given R(a,b,c,d,e,f). Given the following functional dependency:
   F = {ab→cdef , c →abdef, e→ a}.
   Identify the L M R, candidate keys, prime/non prime and normal form using the table below

L	M	R		Candidate Keys		prime	Non prime		Normal Form
	a	d		c		a	d		3rd NF
	b	f		ab		b	f		
	c			e		c			
	e					e			

e

4. Given R(a,b,c,d,e,f,g). Given the following functional dependency:
   F = {ab → cdeg, c → abdef, d→ b}
   Identify the L M R, candidate keys, prime/non prime and normal form using the table below

L	M	R		Candidate Keys		prime	Non prime		Normal Form
	a	e		c		a	e		3rd NF
	b	f		ab		b	f		
	c	g		ad		c	g		
	d					d			