I Mo Danthuluru declare that I have completed this assignment completely and entirely on my own, without any consultation with others. I understand that any breach of the UAB Academic Honor Code may result in severe penalties.

[Q1: 5pts]

Answer: The schema of result relation is as follows:

В	С	Α	D
4	3	6	9
5	1	3	6

[Q2: 5pts]

Answer: The schema of result relation is as follows:

Α	В	С	D
10	t	8	9

[Q3: 5pts]

Answer:

Value range of t,

$$t = 0 - (r*s - 1)$$

t=r on R NATURALJOIN R

[Q4: 5pts]

Answer: The schema of the result relation is,

В	A
2	1
2	4
5	4
5	2

[Q5: 12 pts]

Answer:

Union:

Α	В	С
a	b	С
d	b	С
d	е	f
b	е	С
a	b	f
b	е	d

Intersection:

Α	В	С
a	b	С
d	е	f
b	е	С

R-S:

A	В	C
d	С	С
а	b	f

S-R:

A	В	С
b	е	d