Homework #13

4
1. Use the relations given below to evaluate the
relational expressions or explain why the
expression is invalid.

Ar	ıswers	:			
a)	A	В	C	D	b) A
	3	4	1	2	5
	3	4	2	4	6
	· ·		-		1

- a) $\sigma_{A \le 4} Q \cdot U$
- b) $\pi_A \sigma_{B < A} Q$

Ouestions:

- c) $\pi_{BE}(R \cdot \pi_{CE}S)$
- d) $Q \cup \pi_B R$
- e) $\pi_{CDE}(\sigma_{B\leq 2}R \cdot \rho_{C\leftarrow E}U) S$

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A	٠
v	٠

<u>v</u> .	
Α	В
5	1
6	1
4	2
3	4
	· ·

K:	C	
В	C	
1	4	
2	4	
2	5	
3	6	
3	9	

S:

С	D	E
4	1	1
4	2	1
3	3	2
2	4	2

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<u> </u>			
С	D		
1	2		
2	4		

D٠

		7	1
В	C	2 2 3	1
1	4	3	1
2	4	3	1
2	5		2
3	6	1 2 2 3 3	2
3	9	2	2
		3	2
E			2
1		1	2
1		2	2
2		2 2	2
		כ	๋ว

3

c) B

1

2

2

3

3

1

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1

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1

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- 2. Use the relations given above in problem 1 to evaluate the relational expressions or explain why the expression is invalid.
- a) $\pi_E S \mid \cdot \mid U$
- b) Q | R
- c) $\sigma_{B<2}Q \mid \cdot \mid R \mid \cdot \mid \rho_{C \leftarrow B}U$