Assignment 6

Due Apr 17 by 11:59pm **Points** 100 **Submitting** a file upload **File Types** pdf
Available Apr 10 at 12am - Apr 19 at 11:59pm 10 days

This assignment was locked Apr 19 at 11:59pm.

CSC134 - Spring 2019 - Applebaum

Assignment 6

Total: 100 points

Submission must be typed and submitted as a PDF file to Canvas

1. (20 pts) Given F = { a → b, b → c, c → {d, e} }. What is $\{b\}^+$ (i.e. the closure of b)? Show your steps to achieve the answer.

2. (20 pts) Given F = { a → b, c → d, b → {d, e}, {a, b} → c }. What is $\{a\}^+$ (i.e. the closure of a)? Show your steps to achieve the answer.

3. (30 pts) Given R(a, b, c, d, e) with two keys, (a,b) and c, and given the following set of functional dependencies F = { {a, b} → {c, d, e}, c → {a, b, d} }.
   1. Is R in 1NF? Justify your answer.
   2. Is R in 2NF? Justify your answer.
   3. Is R in 3NF? Justify your answer.

4. (30 pts) Given R(a, b, c, d, e) with a key (a,b) and given the following set of functional dependencies F = { a → b, {a, b} → c, b → {d, e} }.
   1. Is R in 1NF? Justify your answer.
   2. Is R in 2NF? Justify your answer.
   3. Is R in 3NF? Justify your answer.

‹ Previous Next ›

Submission

Submitted!
Apr 17 at 9:18pm
Submission Details
Download csc134_A6.pdf

Grade: 98 (100 pts possible)
Graded Anonymously: yes

Comments:
Question 3 • part 2: you have the right answer, but your reason is incomplete. e also needs to be functionally dependent on c, which it is transitively. -2
Kathy Applebaum, Apr 19 at 7:24pm