CS 348

Introduction to Database Management Assignment 4

Due: 28 November 2012 9:00AM
Returned: 10 December 2012
Appeal deadline: By the end of final exam on the 19th
Lead TA: Taras Kinash

Plase submit the answers by placing hard copy solutions in the assignment boxes.

Question 1.

Given the following histories:

$$\begin{split} H_1 = & \{W_2(x), W_1(x), R_3(x), R_1(x), W_2(y), R_3(y), R_3(z), R_2(x)\} \\ H_2 = & \{R_3(z), R_3(y), W_2(y), R_2(z), W_1(x), R_3(x), W_2(x), R_1(x)\} \\ H_3 = & \{R_3(z), W_2(x), W_2(y), R_1(x), R_3(x), R_2(z), R_3(y), W_1(x)\} \\ H_4 = & \{R_2(z), W_2(x), W_2(y), W_1(x), R_1(x), R_3(x), R_3(z), R_3(y)\} \end{split}$$

- (a) Which of the above histories are conflict equivalent and why?
- (b) Which of the above histories are serializable and why?

Question 2.

Question 16.7 in your book.

Question 3.

Question 19.5 in your book. Please give 2-3 sentence (not longer) justification of your answer.

Question 4.

Question 20.1 in your book, but only the first part.