

CS 464/564 Spring 2021 Quiz 5

Name: _____

1. Let $R = \{A, B, C, D, E, F, G\}$

Let the FD set = $\{AB \rightarrow CE, A \rightarrow DF, CE \rightarrow DF, F \rightarrow G\}$

Create a set of 3NF tables from R based on the FD set.

Neatly show your work!

This question is the optional question I mentioned in the quiz 4 solution video. You can use it to get 3 additional points (up to a max score of 20) for quiz 3.

Write a trigger called checkStaff. The trigger is called when the mid column in the Staff table is changed. The trigger checks that the new manager (mid) works in the same library as the staff member(s) he/she manages. That is in the new row or rows the library of the mid (also a staff member) must be the same as the library of the sid. If the update is consistent (i.e. the library of the sid and mid are the same) the update succeeds otherwise it fails.