Exercise 3

R =(A, B, C, D).

F = {C→D, C→A, B→C}.

Question 1: Compute the closure of the attribute B+. Identify all candidate keys for R.

Question 2: Does R satisfy 3NF or BCNF?

Question 3: Decompose R into a set of BCNF relations.

Question 4: Decompose R into a set of 3NF relations.

Notes:

Deadline: May 21st.

Sending email to [xmwang@scut.edu.cn](mailto:xmwang@scut.edu.cn), by Monitor or 学委.

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