Exercise 3

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

$$F = \{C \rightarrow D, C \rightarrow A, B \rightarrow C\}.$$

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 <u>xmwang@scut.edu.cn</u>, by Monitor or 学委.

File name: 班级-姓名-学号-作业x.doc (Chinese students), or Englishname-

homework x. doc (international students).