1. Find a minimal cover for the following FD set

 $FDs = \{ FGH \rightarrow I, FI \rightarrow H, DI \rightarrow G, DH \rightarrow EG, I \rightarrow F, H \rightarrow F \}$

2. Use the universal table and the **Minimal Cover** FD shown below to answer parts a, b and c. Universal Table BCDFGH
Minimal cover FD set {BG -> C, G -> F, C -> H, C -> G, F->D}

- a. Find a key for the universal table.
- b. Is the decomposition of BCDFGH into GFD and BGCH lossless? Justify your answer.

c. Use 3NF synthesis to create a set of 3NF tables.