Class Worksheet

1. Write down a nonempty set of inference rules for FDs that is *sound* but **not complete**.

2. Write down a set of inference rules for FDs that is *complete* but **not sound**.
3. Consider the schema $R(A, B, C, D, E, H)$ and the following set $F$ of FDs:

$$\{AB \rightarrow CD, \; D \rightarrow HB, \; C \rightarrow H, \; CH \rightarrow AE, \; BC \rightarrow D\}$$

a. What is the closure of the attribute sets $\{C\}$? $\{B, C\}$?

b. Specify two keys for $R$.

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c. Find a minimal cover of $F$. 

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