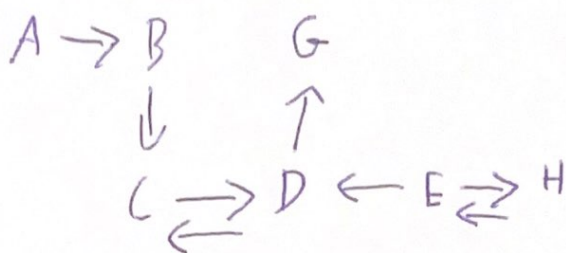


①



Q, ---

②

ck: AE
AH

A: Prime

B: non-Prime

E: Prime

C: non-Prime

H: Prime

D: non-Prime

G: non-Prime

$R(A, B, C, D, G, E, H)$, $F_1(A \rightarrow B, B \rightarrow C, C \rightarrow D, D \rightarrow CG, E \rightarrow DH, H \rightarrow E)$ 1NF

③

$R_1(\underline{A}, B, C)$, $F_1(A \rightarrow B, B \rightarrow C)$ 2NF

$R_2(\underline{C}, D, \underline{E}, G, H)$, $F_2(C \rightarrow DG, D \rightarrow CG, E \rightarrow HD, CG, H \rightarrow ED, CG)$ 2NF

$R_{11}(\underline{A}, B)$, $F_{11}(A \rightarrow B)$ 3NF, BCNF

$R_{12}(\underline{B}, C)$, $F_{12}(B \rightarrow C)$ 3NF, BCNF

$R_{21}(\underline{C}, D, G)$, $F_{21}(C \rightarrow DG, D \rightarrow CG)$ 3NF, BCNF

$R_{22}(\underline{D}, \underline{E}, H)$, $F_{22}(E \rightarrow DH, H \rightarrow ED)$ 3NF, BCNF

④

Yes. My decomposition is BCNF