a) Find Candidate keys and prime attributes
b) Find the minimal cover
c) Decompose to 3NF
d) Decompose to BCNF and ensure its lossless join decomposition
e) Check if the functional dependencies are preserved.

A→B

C→B

D→ABC

AC→D

------------------------2------------------------------

X→W

WZ→XY

Y→WXZ

------------------------3------------------------------

V→W

VW→X

Y→VXZ

------------------------4------------------------------

A→BC

B→C

A→B

AB→C

------------------------5------------------------------

R (A,B,C)

F: A→B

B→C

C→A

------------------------6------------------------------

R: (A,B,C,D)

AB→CD

D→A