COMP 3005 – Assignment 5 (Part 2)

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1A. A → B will not hold, because **<10,b1>** and **<10,b2>** cause the violation.
1B. B → C holds.
1C. C → B will not hold, because **<c1,b4>** and **<c1,b1>** cause the violation.
1D. B → A will not hold because **<b1,10>**, **<b1,13>**, **<b3,12>** and **<b3,14>** cause violations.
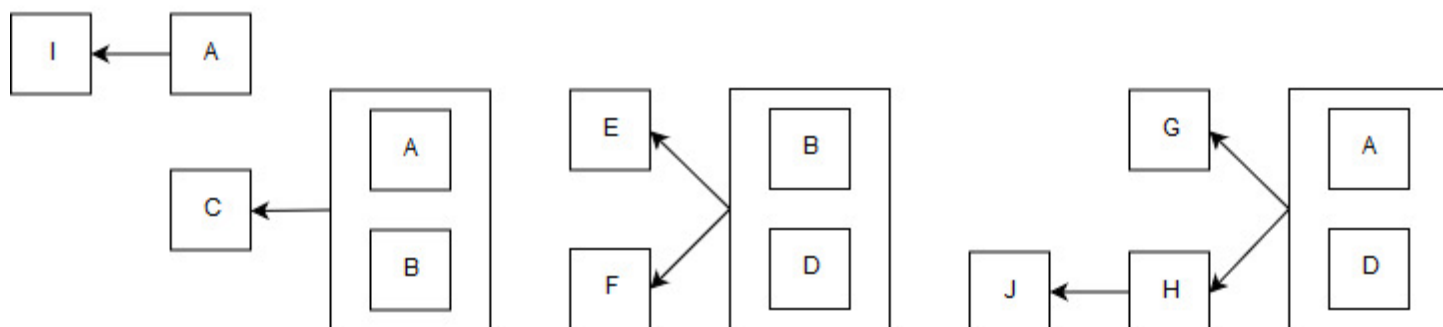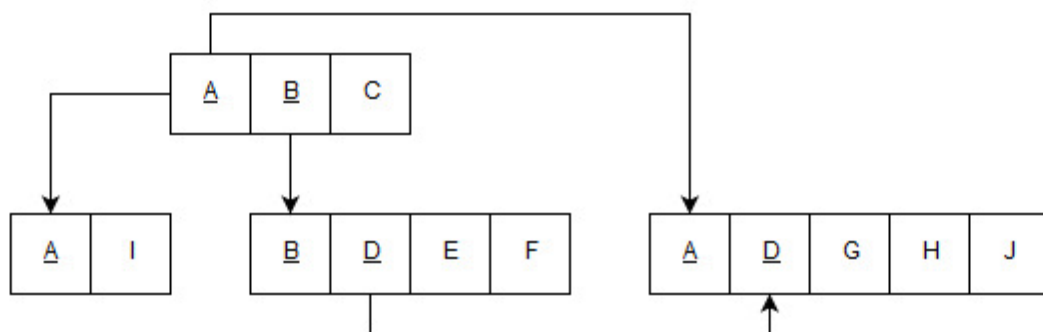1E. C → A will not hold because **<c1,10>**, **<c1,11>**, **<c1,13>**, **<c4,12>** and **<c4,14>** cause violations.
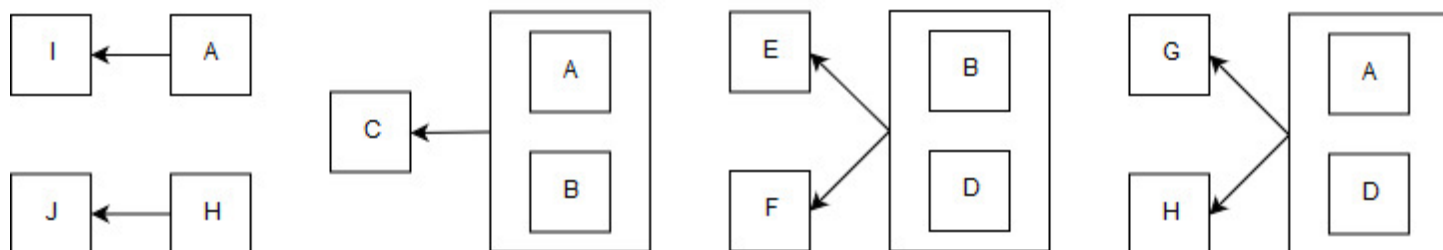
2A. The key is **AB**.
2B.
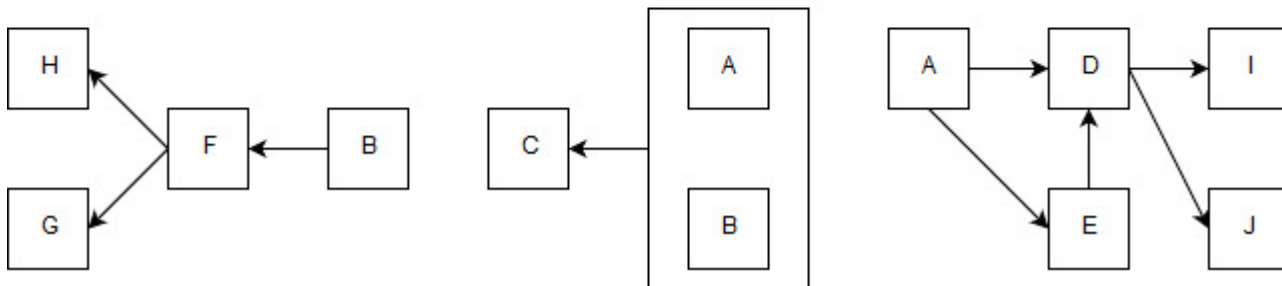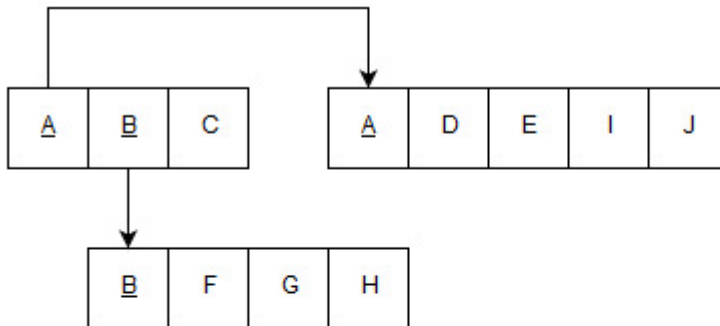
2C.
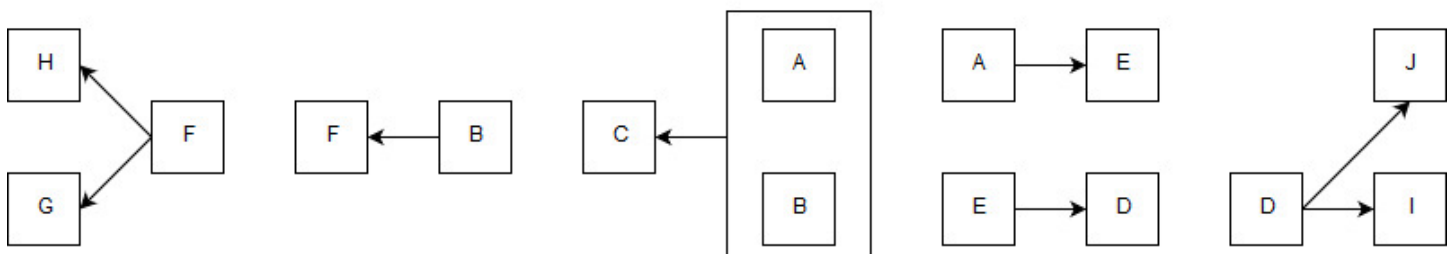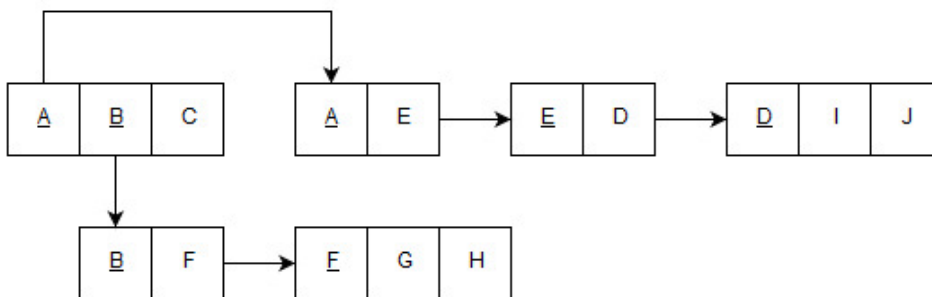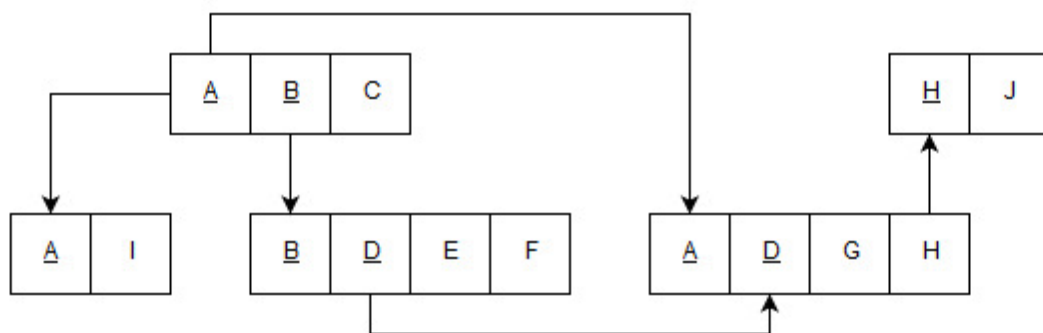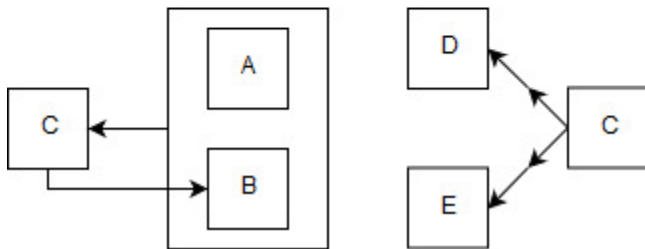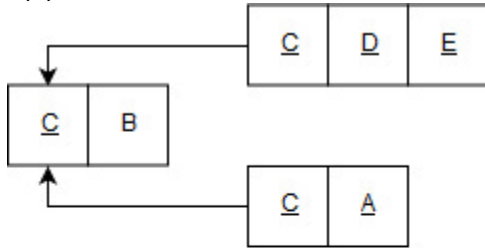
3A. The key is **ABD**.

3B.

3C.

4(1). The key is **ACDE**.
4(2). The highest normal form for this relation is **Third Normal Form**.
4(3).

C	D	E

C	B

C	A

A
B
C

D
C
E

4(5).

C	D

C	E

C	B

C	A

A
B
C

D
C

E
C