Task C4.2.1

Dependency	Possible(Yes/No)	Why/why not?
A -> B	NO	As there is same value of **B (b2)** for different values of **A (a1, a2).**
A -> C	NO	As there is same value of **C (c3)** for different values of **A (a1, a2).**
A -> D	NO	As there is same value of **D (d4)** for different values of **A (a2, a3)**.
B -> A	NO	As there is same value of **A (a1)** for different values of **B (b1, b2)**.
B -> C	YES	As each element of **C** can be uniquely identifiable by unique element of **B**.
B -> D	NO	As there is same value of **D (d4)** for different values of **B (b2, b3)**.
C -> A	NO	As there is same value of **A (a1)** for different values of **C (c1, c3)**.
C -> B	YES	As each element of **B** can be uniquely identifiable by unique element of **C**.
C -> D	NO	As there is same value of **D (d4)** for different values of **C (c3, c5)**.
{A, B} -> C	YES	As each element of **C** can be uniquely identifiable by unique element of **{A, B}**.
{A, B} -> D	YES	As each element of **D** can be uniquely identifiable by unique element of **{A, B}**.
{B, C} -> A	NO	As there is same value of **A (a1)** for different values of **{B, C}({b1, c1}, {b2, c3})**.
{B, C} -> D	NO	As there is same value of **D (d4)** for different values of **{B, C}({b2,c3}, {b3,c5})**.
{C, D} -> A	YES	As each element of **A** can be uniquely identifiable by unique element of **{C, D}**.
{C, D} -> B	YES	As each element of **B** can be uniquely identifiable by unique element of **{C, D}**.

{A, C} -> B	YES	As each element of **B** can be uniquely identifiable by unique element of **{A, C}**.
{A, C} -> D	YES	As each element of **D** can be uniquely identifiable by unique element of **{A, C}**.

we can conclude from this table that, there is no single column that can be a primary key. We need to make composite key as a primary excluding combination of {B, C} as a primary key.