Talal Jawaid

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CSC 134

Prof. Sabzevary

HW 12

1. Given F = {a🡪b, b🡪c, c🡪 {d,e}}. What is the closure of b, {b}+?
2. Given R(a,b,c,d,e,f). Given the following functional dependency:

F = { fd1: {a,b} 🡪 {c,d,e,f}, fd2: c 🡪 {a,b,d,e,f }}.

Is R in 2nd normal form? Justify your answer.

1. Given R(a,b,c,d,e,f). Given the following functional dependency:

F = { fd1:{a,b} 🡪 { c,d,e,f }, fd2: c 🡪 { a,b,d,e,f }, fd3:e🡪 a}.

Is R in 3rd normal form? Justify your answer.

1. Given R(a,b,c,d,e,f). Given the following functional dependency:

F = { fd1:{a,b} 🡪 {c,d,e,g}, fd2: c 🡪 { a,b,d,e,f }, fd3: d🡪 b}.

Is R in 3rd normal form? Justify your answer.