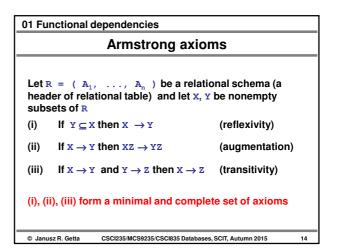
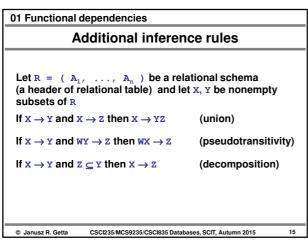
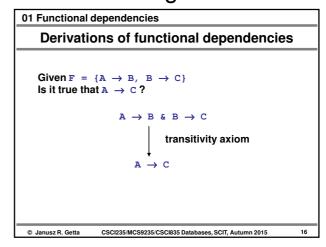


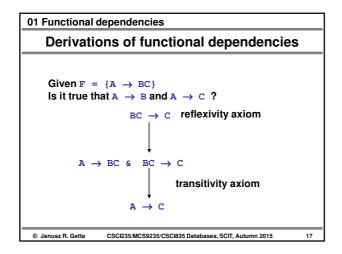
Tunctional dependencies Functional dependency Let R = (A₁, ..., A_n) be a relational schema (a header of relational table) and let X, Y be nonempty subsets of R We say that functional dependency X → Y is valid in relational schema R if for any relational table x with relational schema R, it is not possible that x has two rows that agree in the components for all attributes in set X yet disagree in one or more component for attributes in set Y

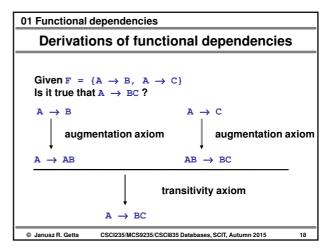


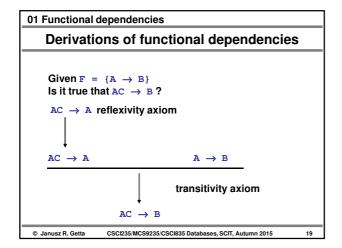
A -> B (THE -> MEANS "DERIVES") and from a u can get b











References Elmasri R., Navathe S. B., Fundamentals of Database Systems, chapter 10.2 R. Ramakrishnan, J. Gehrke Database Management Systems, chapters 19.2, 19.3