Compuler Science 2nd years 31-03-2020 Serbject - DBM's Functional Dependency 7 The functional Dependency is a relationship that exists between two attribute. It oppically exists between the Primary Rey and non they attenbute with a table. the left side of FD us known as a determinant the right side of the production is known as a dependent For example Assume we have an employee table with attribute: EMP-Id, EMP-NAME, EMP-Address Piere EMP-Id attribute can unigrupy Identify the EMP-NAME. attrubuté of employee dable because if are know the EMP. Id we an tell that employee name associated that with it. functional Dependency can be written as

EMPID -> EMP-NAME we can say that EMP- Name as functionally dependent on Emr-rd Functional Dependency Functional Dependency Touvial functional Dependency A -> B chas finivial funitional defendency uj Bies a subset of A 3) The following defendencies are also. vorivial like A > B, B > B Consider a table with Employee-2d and Employee - name

€ Employee. 2d, Employee name } > Employee - 2d ces a drivial functional dependency as Buployeeld Employee - 3d is a subset of Employer- 2d, Employer - name Just also, and the service of the service Employee - 2d -> Employee &d and Employee Name -> Employee-name are trivial defendencies too. 2 Non drivial functional defendency. Dependency if B is not a subset of A =) when A Ontersection B is NULL; then

A -> B is called as complete non trivial For example I An exceptoyee table with three attributes! emp-Id, emp-name, emp-address. The following functional dependencies are non drivial: emp\_Id -> emp-name (emp-name is not a subset of emp-2d) Scanned with CamScanner

emp2d + emp\_addiers (emp\_address is not a subset of emp-2d) = (on the other hand the following dependen are drivial). of emp-Id, emp-name by emp-name [ emp-hame is a subset of 2 emp-3d, emp-name Completely non touivial FD If a FD X -> Y hold town where X Intersection y is null other this dependency is said to be completely non Laivial fundion dependency confirm date of the sound Shaadha Vaish - weight with while the state of the The complete offer the course of any long of army describbingen de works with the contraction of and the same of th

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