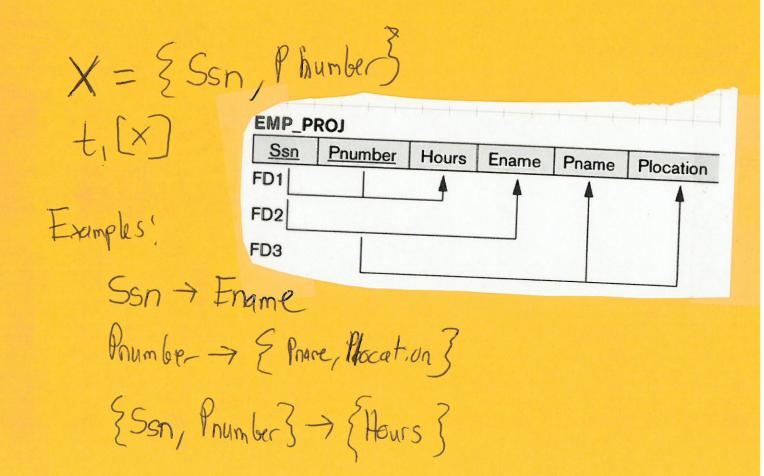
Functional Dependencies & Normal Forms (14) 10/3 universal V relation Functional dependency: Suppose relational DB n attributes R= {A, ..., A, relational State r of R Attribute sets X and Y of the R functional dependency between X and Y if tuplues to and to from r we have $t_1[x] = t_2[x]$ => t,[Y] = t2[Y] (said as Y is functionally dependent on X) written as $X \rightarrow Y$ This This

			Reduildancy	1	
MP_PROJ					
Ssn	Pnumber	Hours	Ename	Pname	Plocation
123456789	1	32.5	Smith, John B.	ProductX	Bellaire
123456789	. 2	7.5	Smith, John B.	ProductY	Sugarland
666884444	3	40.0	Narayan, Ramesh K.	ProductZ	Houston
	1	20.0	English, Joyce A.	ProductX	Bellaire
453453453 453453453	2	20.0	English, Joyce A.	ProductY	Sugarland
	2	10.0	Wong, Franklin T.	ProductY	Sugarland
333445555	3	10.0	Wong, Franklin T.	ProductZ	Houston
333445555	10	10.0	Wong, Franklin T.	Computerization	Stafford
333445555	20	10.0	Wong, Franklin T.	Reorganization	Houston
333445555		30.0	Zelaya, Alicia J.	Newbenefits	Stafford
999887777	30	10.0	Zelaya, Alicia J.	Computerization	Stafford
999887777	10		Jabbar, Ahmad V.	Computerization	Stafford
987987987	10	35.0	Jabbar, Ahmad V.	Newbenefits	Stafford
987987987	30	5.0		Newbenefits	Stafford
987654321	30	20.0	Wallace, Jennifer S.		
987654321	20	15.0	Wallace, Jennifer S.	Reorganization	Houston
888665555	20	Null	Borg, James E.	Reorganization	Houston

Redundancy

Redundancy



Props of FDS - X is a key of r(R) => X -> Y for any subset of attributes of R - X -> Y does not imply >> X

Per son	7		
Sse s	From	Lrane	
(123)	Alice	A	
456	Bol	B	
789	Charlie	C	
(01)	Alice		
Summary			

- X -> Y always true - to show Y is not FDX, produce example eq (123, Alice, A) & (OII, Alice, C) France Tele