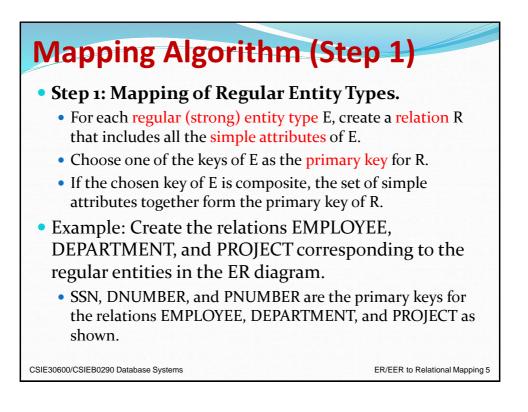
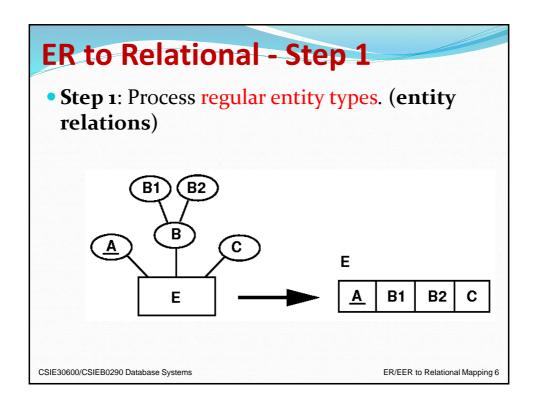
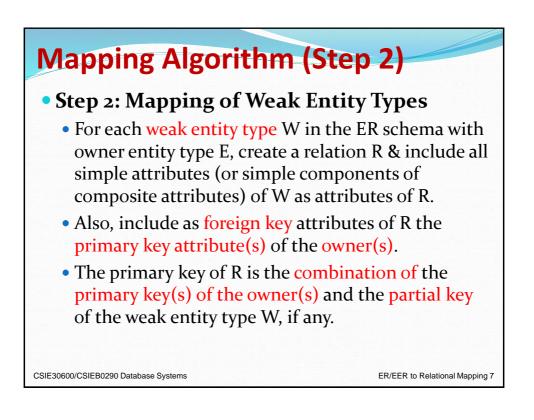
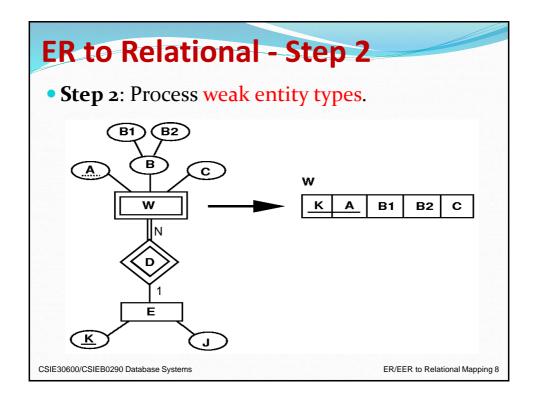


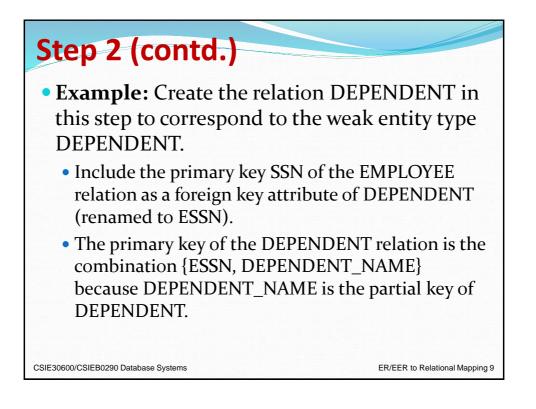
EMPLOYEE	
Fname Minit Lname Ssn Bdate Address Sex	Salary Super_ssn Dno
DEPARTMENT	
Dname Dnumber Mgr_ssn Mgr_start_date	
DEPT_LOCATIONS	
PROJECT Pname Pnumber Plocation Dnum WORKS ON	
Essn Pno Hours	Figure 9.2
DEPENDENT	Result of mapping the COMPANY ER schema
Essn Dependent_name Sex Bdate Relationship	into a relational database schema.
CSIE30600/CSIEB0290 Database Systems	ER/EER to Relational Mapping 4



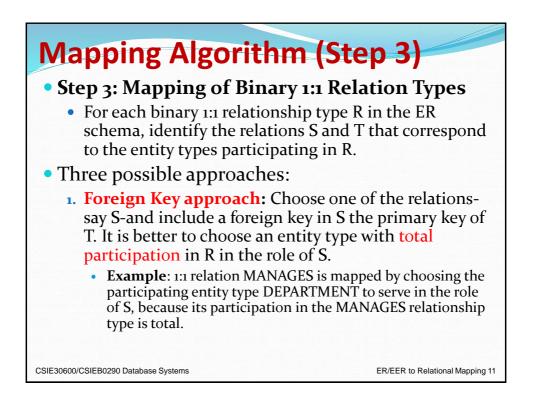


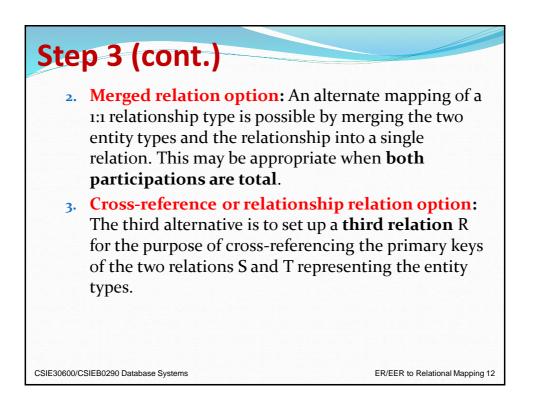


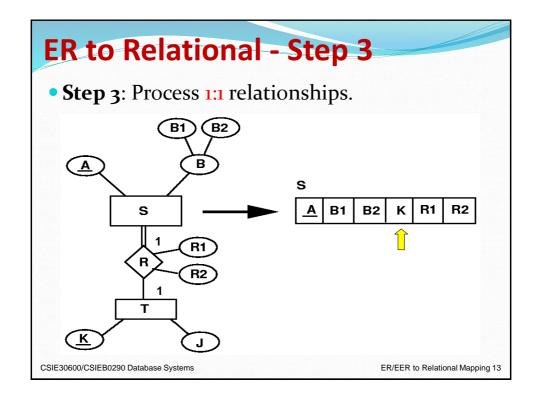


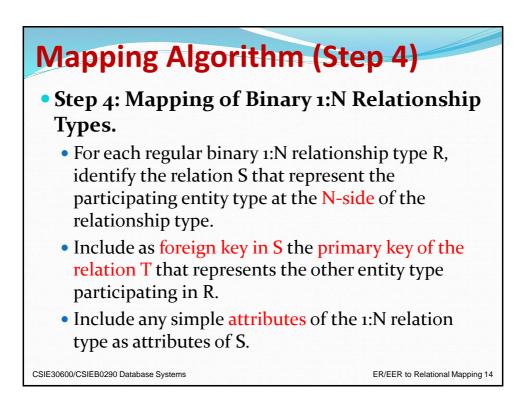


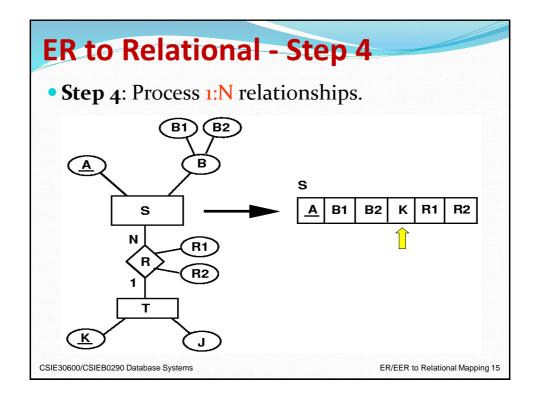
ER-to-Re	la	tional Mapping Algorithm						
(cont.)								
Figure 9.3	(a)	EMPLOYEE						
Illustration of some mapping steps.		Fname Minit Lname Sin Bdate Address Sex Salary						
(a) <i>Entity</i> relations after step 1.		DEPARTMENT						
(b) Additional <i>weak entity</i> relation after step 2.	,	Dname <u>Dnumber</u>						
(c) Relationship relations		PROJECT						
after step 5. (d) Relation representing		Pname Pnumber Plocation						
multivalued attribute after step 6.	(b)	DEPENDENT						
		Essn Dependent_name Sex Bdate Relationship						
	(c)	WORKS_ON						
		Essn Pno Hours						
	(d)	DEPT_LOCATIONS						
		Dnumber Dlocation						
CSIE30600/CSIEB0290 Datab	ase Sy	stems ER/EER to Relational Mapping 10						

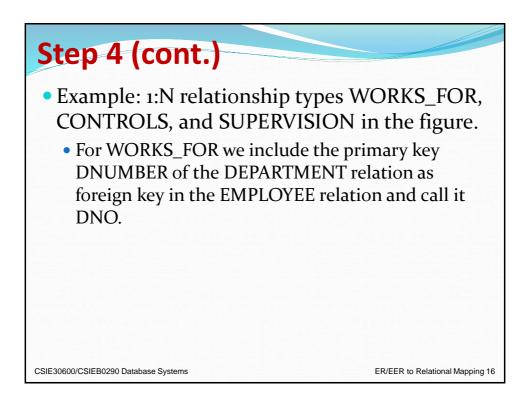


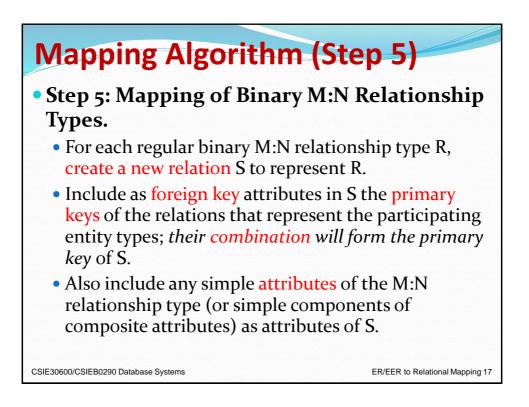


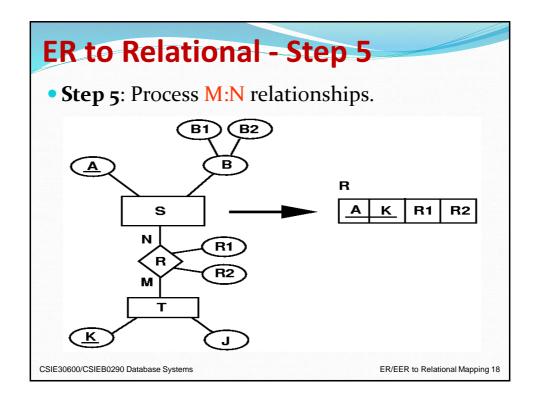


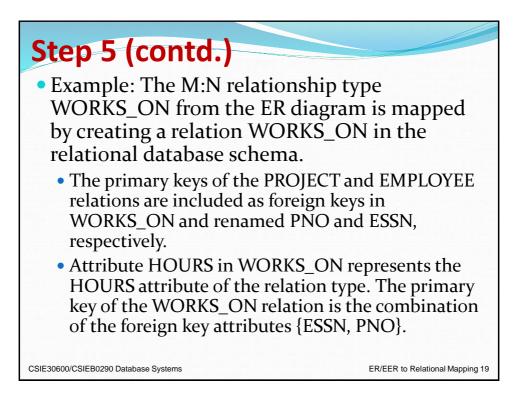


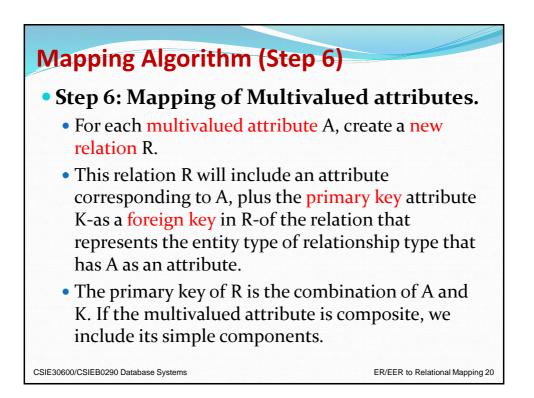


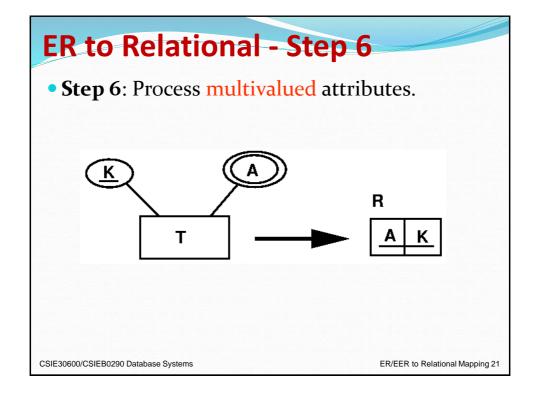


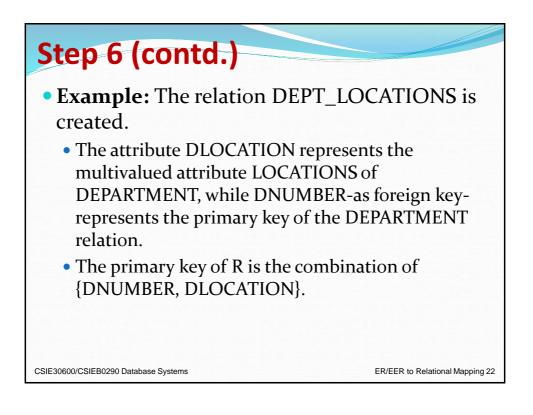


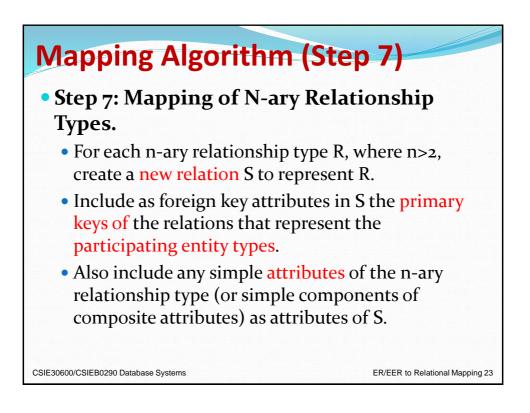


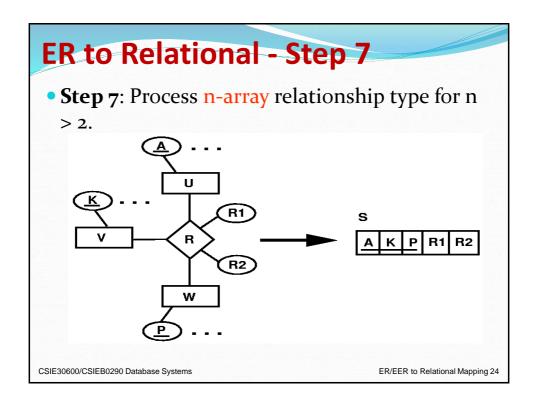




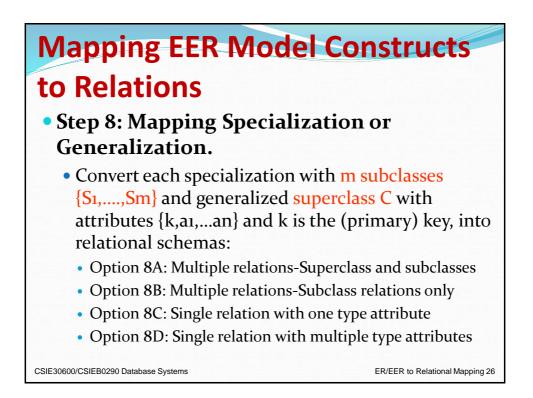


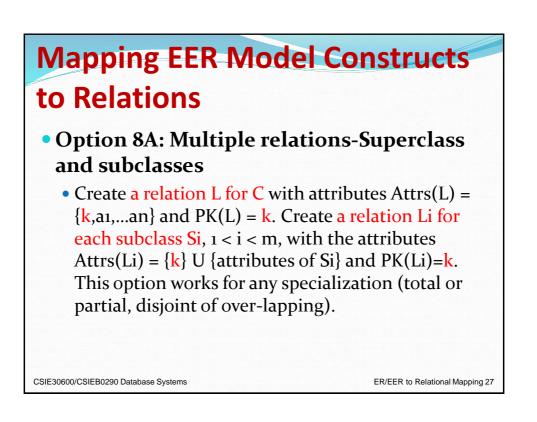


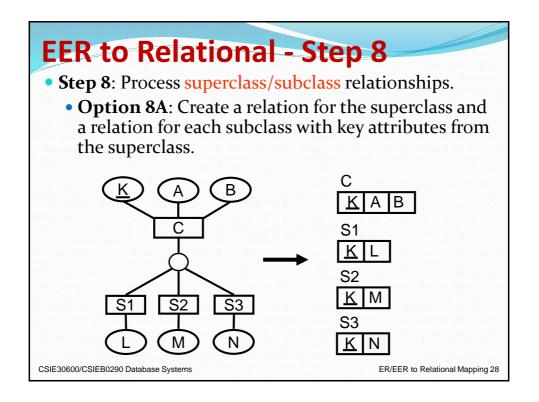


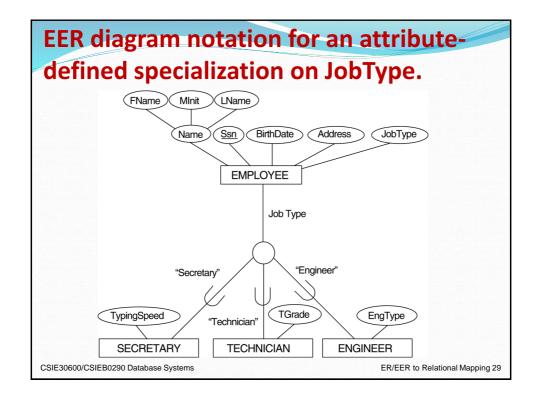


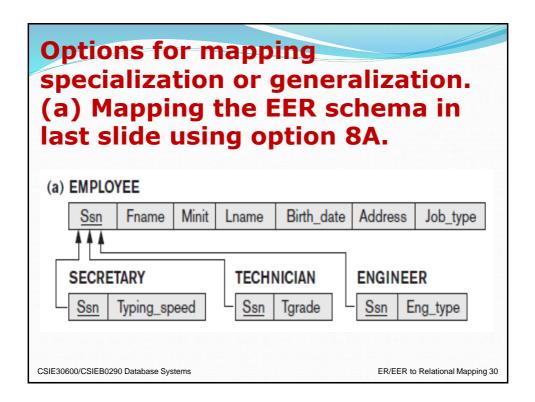
Constructs							
Table 9.1 Correspondence betwe	en ER and Relational Models						
ERMODEL	RELATIONAL MODEL						
Entity type	Entity relation						
1:1 or 1:N relationship type	Foreign key (or <i>relationship</i> relation)						
M:N relationship type	Relationship relation and two foreign keys						
n-ary relationship type	Relationship relation and n foreign keys						
Simple attribute	Attribute						
Composite attribute	Set of simple component attributes						
Multivalued attribute	Relation and foreign key						
Value set	Domain						
Key attribute	Primary (or secondary) key						

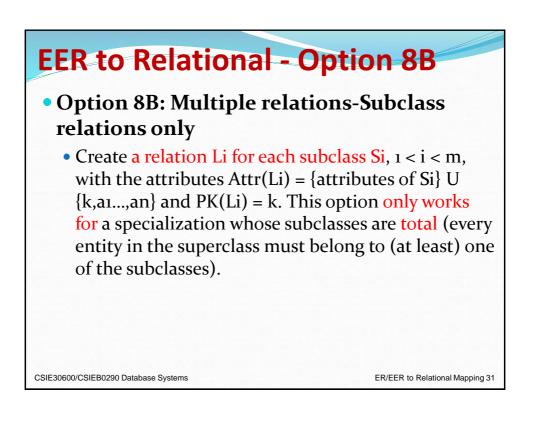


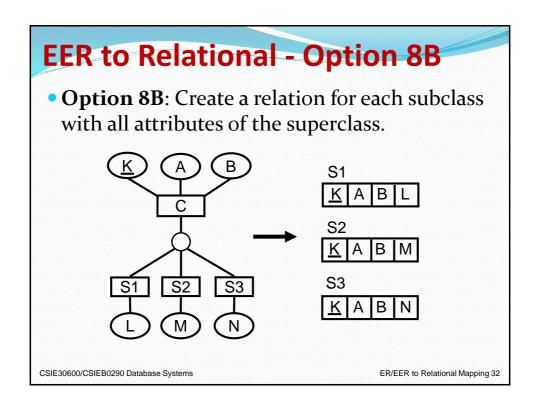


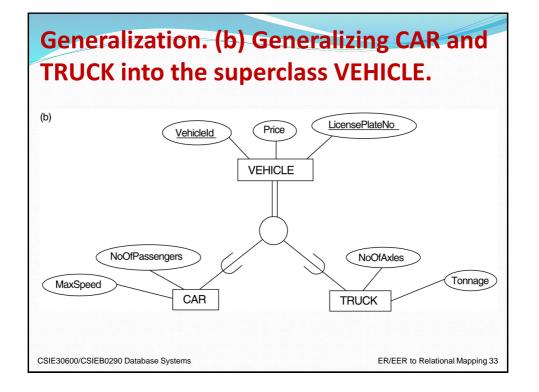


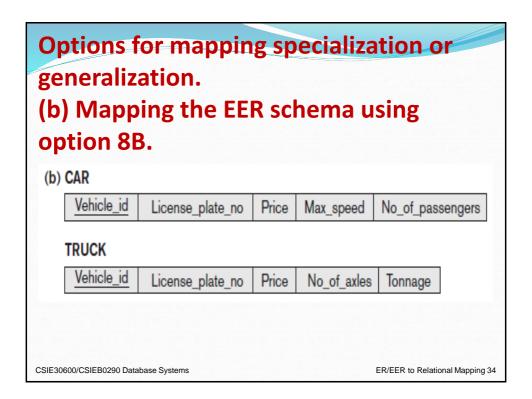


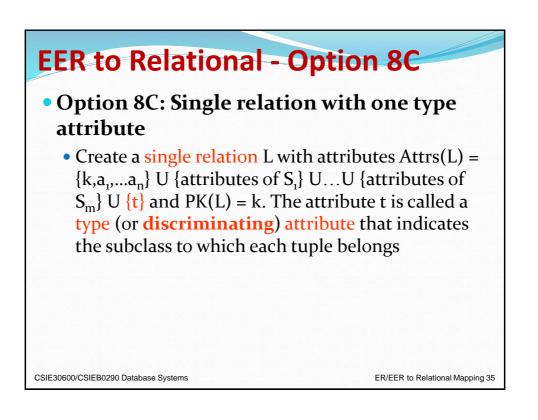


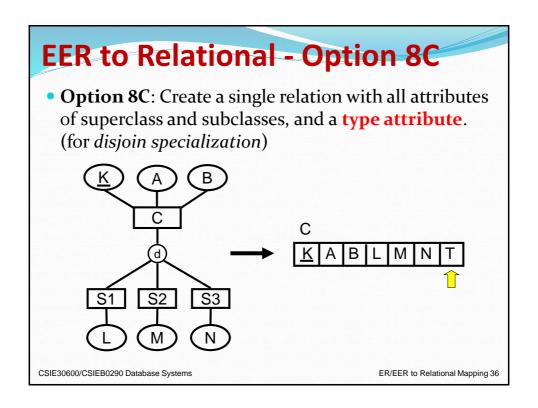


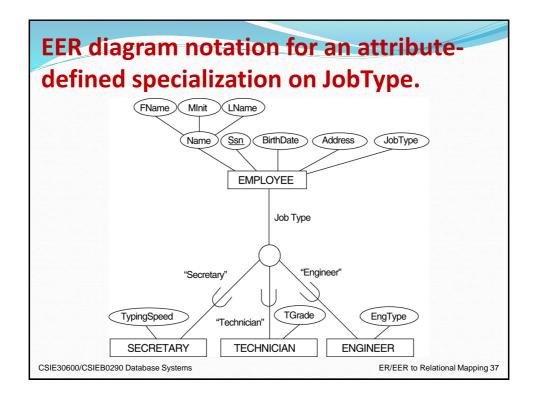


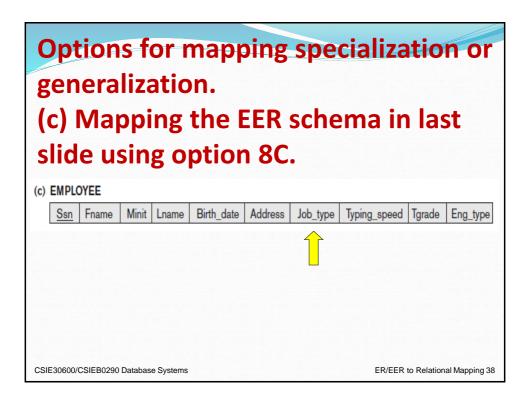


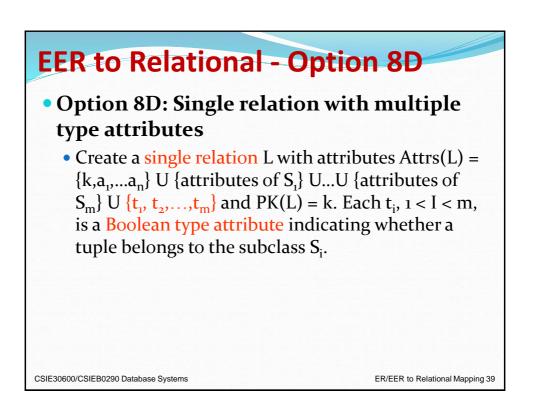


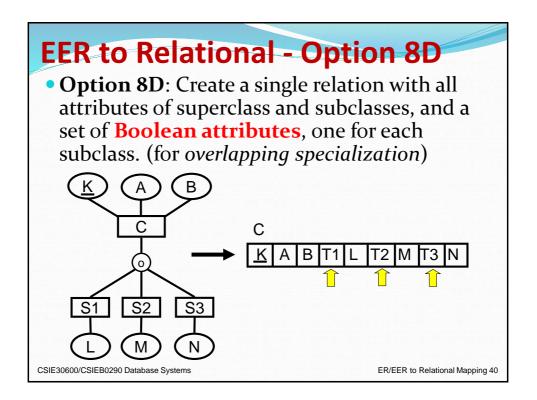


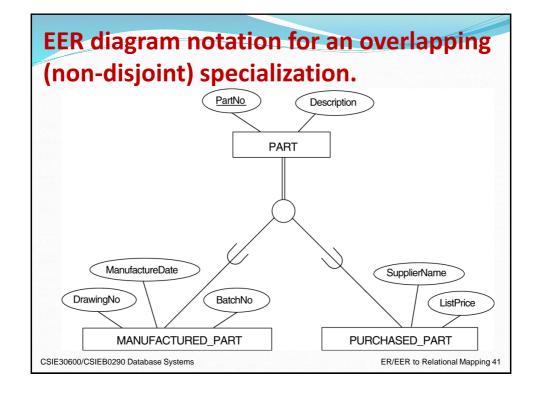


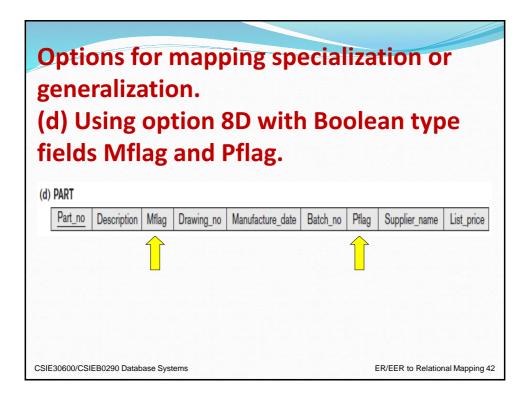


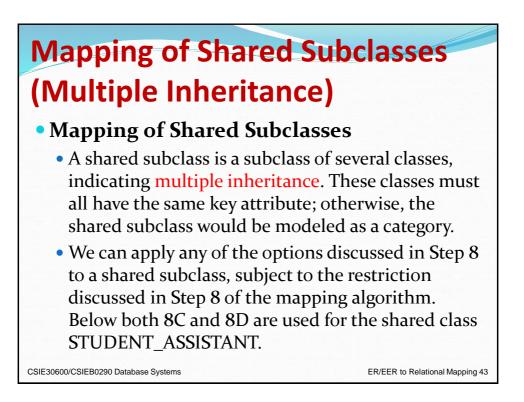


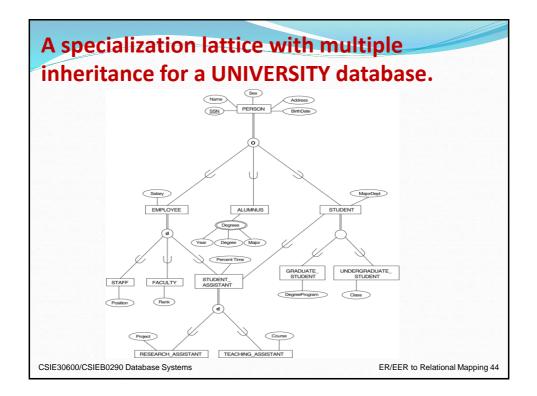












Mapping the EER specialization lattice using multiple options.							
PERSON Ssn Name Birth_date Sex Address					Figure 9.6 Mapping the EER specialization lattice in Figure 4.8 using multiple options.		
EMPLOYEE Ssn Salar	y Employee_type		Percent_time Ra_fl	ag Ta_fla	ag Project Course		
STUDENT	<u>Ssn</u> <u>Year</u> <u>C</u>	legree <u>Major</u> Undergrad_flag	Degree_program	Class	Student_assist_flag		
· ,	290 Database Systems	ind			/EER to Relational Mapping 45		

