- ·Database design is an iterative process
- ·Create detailed narrative of organization's description of operations
- ·Identify business rules based on description of operations
- ·Identify main entities and relationships from business rules
- ·Develop initial ERD
- ·Identify attributes and primary keys that adequately describe entities
- ·Revise and review ERD

Crow's Foot Symbols				
CROW'S FOOT SYMBOLS	CARDINALITY	COMMENT		
O€	(0,N)	Zero or many; the "many" side is optional.		
l€	(1,N)	One or many; the "many" side is mandatory.		
II was a second and a second a second and a second a second and a second a second and a second a second and a second a second a second a second and a second and a second and a second and	(1,1)	One and only one; the "1" side is mandatory.		
O	(0,1)	Zero or one; the "1" side is optional.		

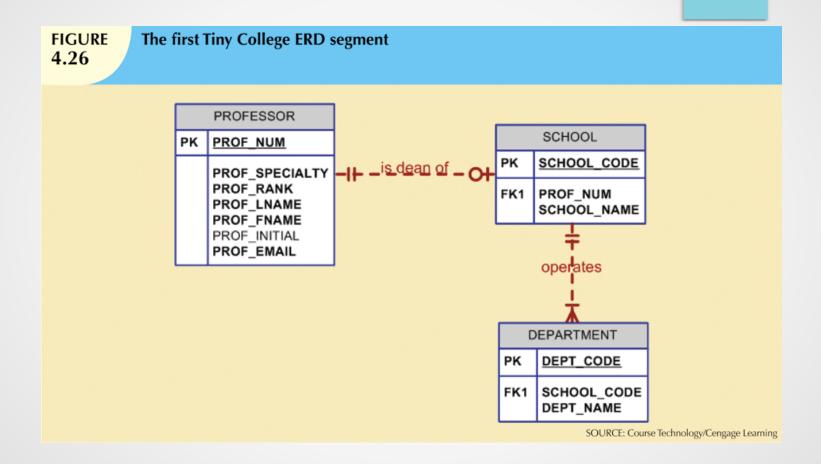


FIGURE 4.27

The second Tiny College ERD segment



SOURCE: Course Technology/Cengage Learning

FIGURE 4.28

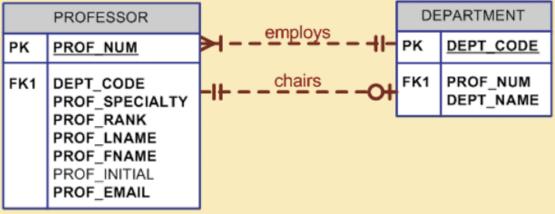
The third Tiny College ERD segment



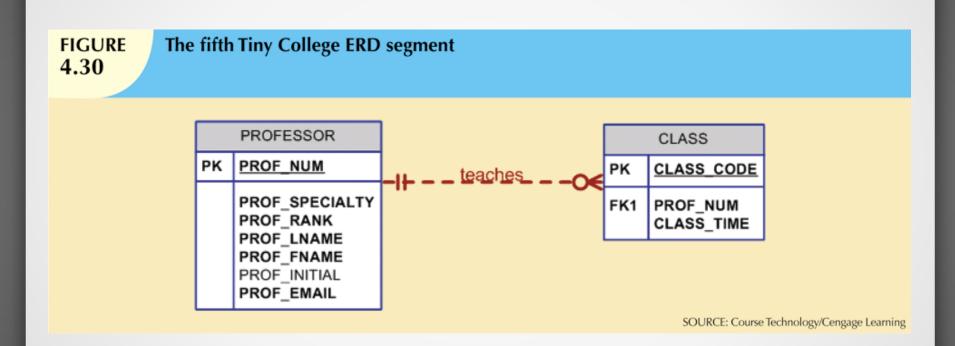
SOURCE: Course Technology/Cengage Learning

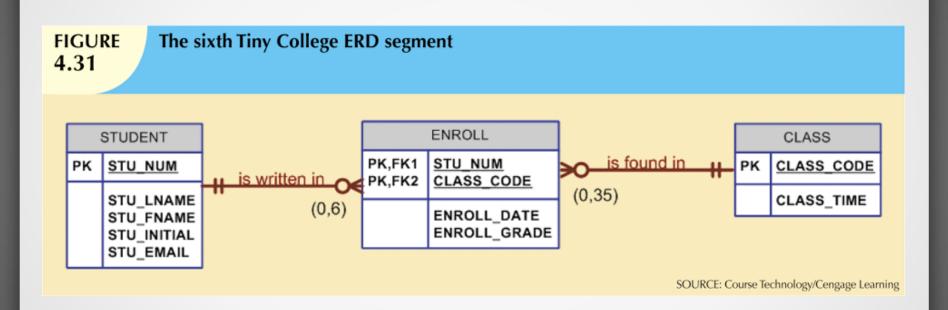
FIGURE 4.29

The fourth Tiny College ERD segment



SOURCE: Course Technology/Cengage Learning





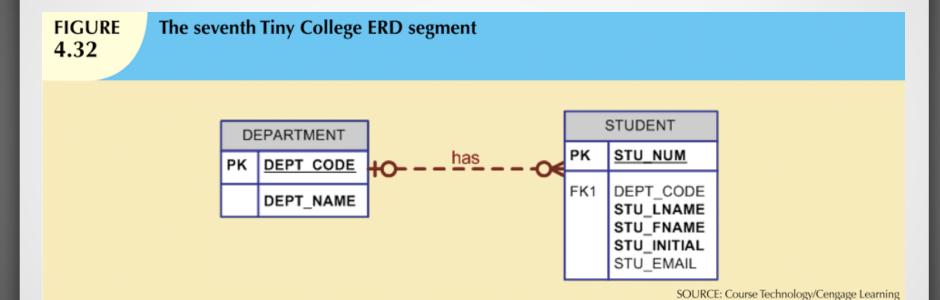
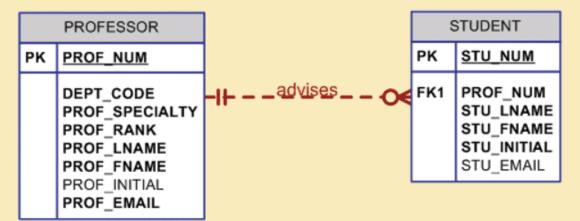
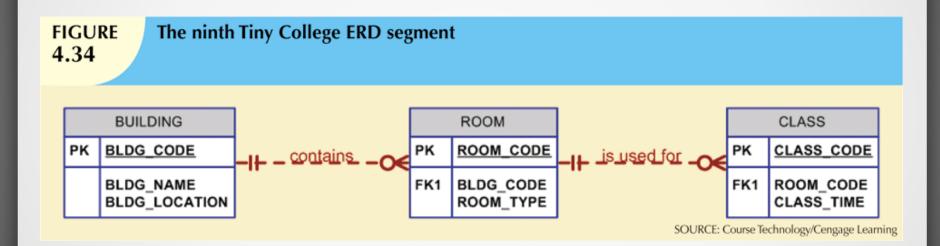


FIGURE 4.33

The eighth Tiny College ERD segment



SOURCE: Course Technology/Cengage Learning



TAB	LE
4.4	

Components of the ERM

ENTITY	RELATIONSHIP	CONNECTIVITY	ENTITY	
SCHOOL	operates	1:M	DEPARTMENT	
DEPARTMENT	has	1:M	STUDENT	
DEPARTMENT	employs	1:M	PROFESSOR	
DEPARTMENT	offers	1:M	COURSE	
COURSE	generates	1:M	CLASS	
PROFESSOR	is dean of	1:1	SCHOOL	
PROFESSOR	chairs	1:1	DEPARTMENT	
PROFESSOR	teaches	1:M	CLASS	
PROFESSOR	advises	1:M	STUDENT	
STUDENT	enrolls in	M:N	CLASS	
BUILDING	contains	1:M	ROOM	
ROOM	is used for	1:M	CLASS	
Note: ENROLL is the composite entity that implements the M·N relationship "STUDENT enrolls in CLASS."				

Note: ENROLL is the composite entity that implements the M:N relationship "STUDENT enrolls in CLASS."

- Sem 2
 - CEC exam for unit 2 on --/12 / 2022
 - Assignment Submission -- / 12 / 2022

UNIT 2 COMPLETED