

# Module 7 ERD Rules and Problem Solving

Lesson 4: ERD Problems II



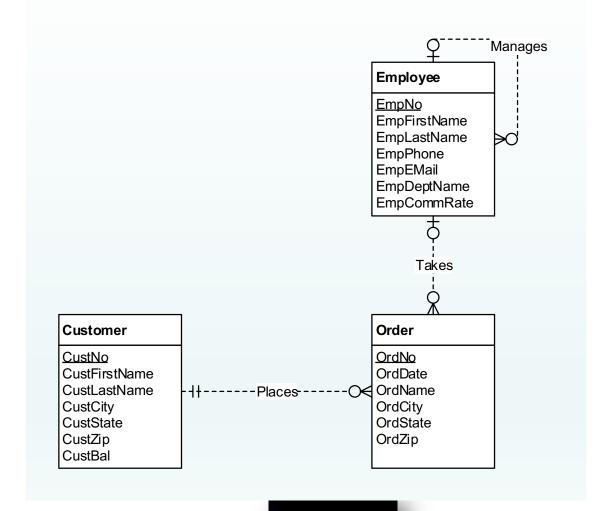
## Lesson Objectives

- Gain confidence to work assignment problems
- Work problems with M-N relationships, associative entity types, and diagram error detection
- Use the ER Assistant or another tool to draw ERDs





#### **ERD Notation Problem 2 Solution**





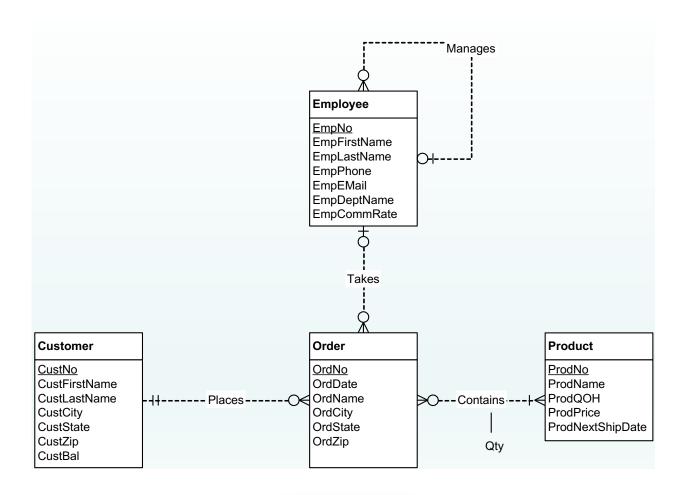
#### **ERD Notation Problem 3**

- Product entity type
  - ProdNo (PK), ProdName, ProdQOH, ProdPrice,
     ProdNextShipDate
- M-N relationship between product and order with order quantity attribute
- Order optional for product
- Product mandatory for order





#### **ERD Notation Problem 3 Solution**







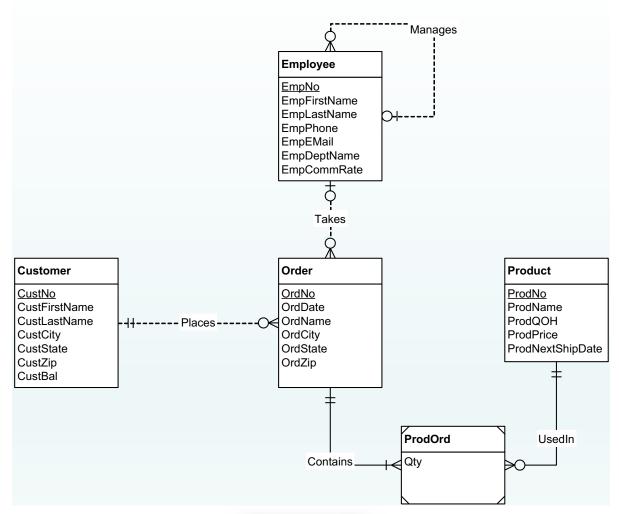
#### **ERD Problem 4**

- Transform M-N relationship
- Associative entity type
- Two identifying, 1-M relationships





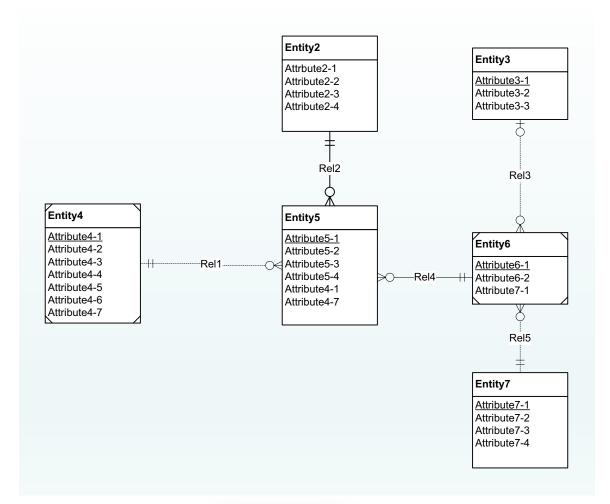
#### **ERD Notation Problem 4 Solution**







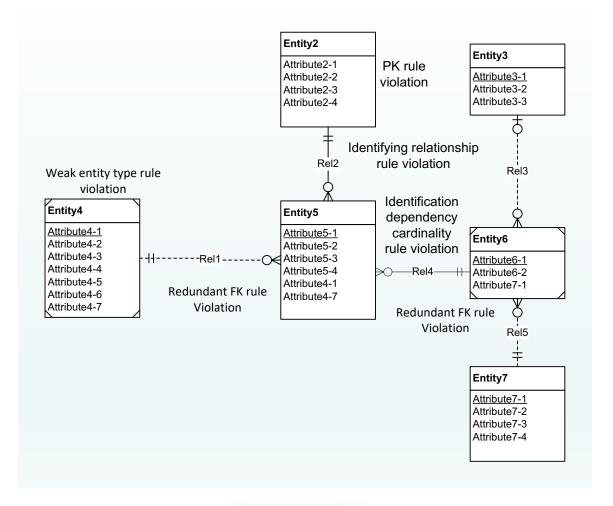
## Diagram Error Problem







## Diagram Error Problem Solution







## Summary

- Work problems to gain confidence with the Crow's Foot notation
- Identify and resolve diagram errors to avoid errors in business data modeling problems
- Use the ER Assistant for drawing and detection of notational errors
- Use Visual Paradigm for experience with a feature rich product
- Use notation precisely in business data modeling problems

