



Business School
UNIVERSITY OF COLORADO DENVER

Information Systems Program

Module 7

ERD Rules and Problem Solving

Lesson 4: ERD Problems II

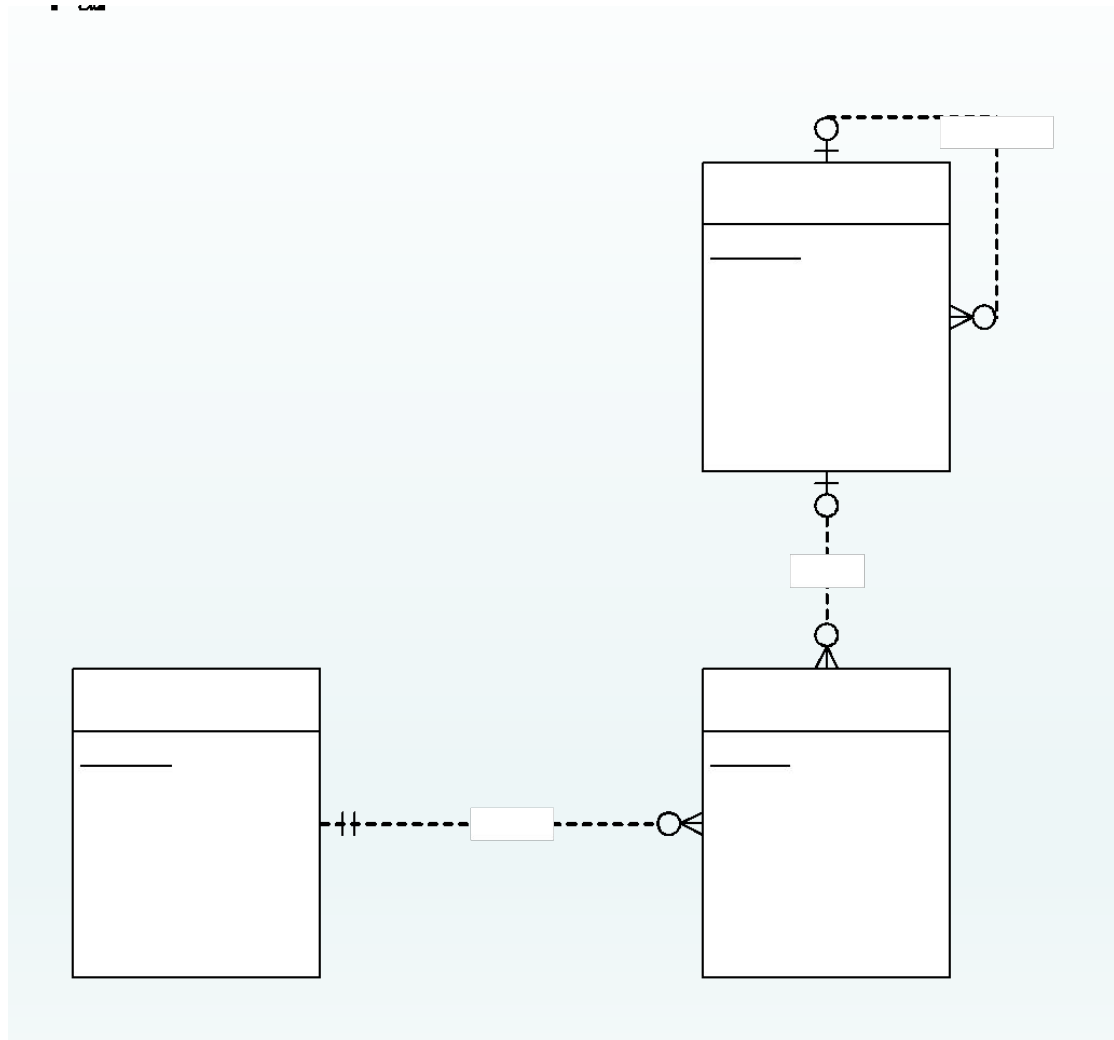


Lesson Objectives

- 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

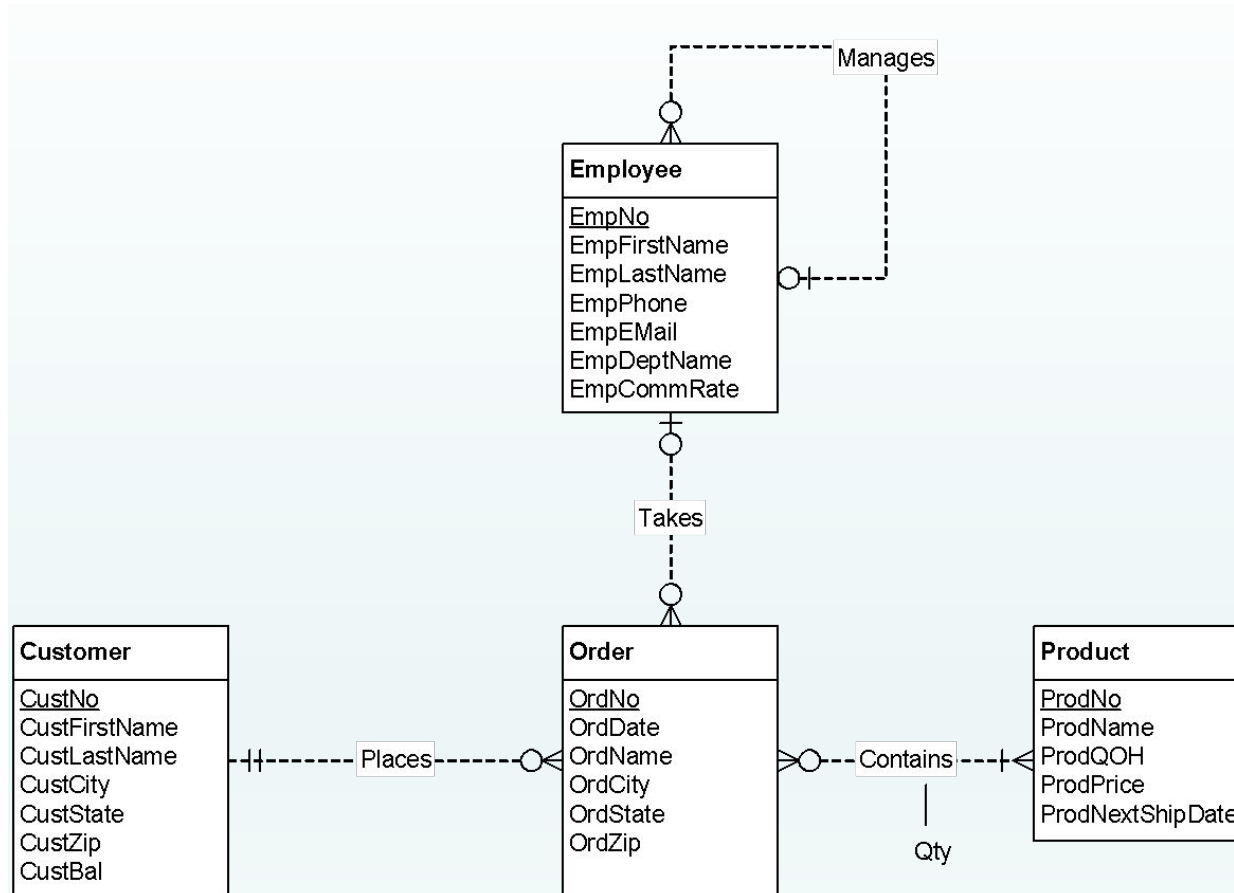


ERD Notation Problem 3

- 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

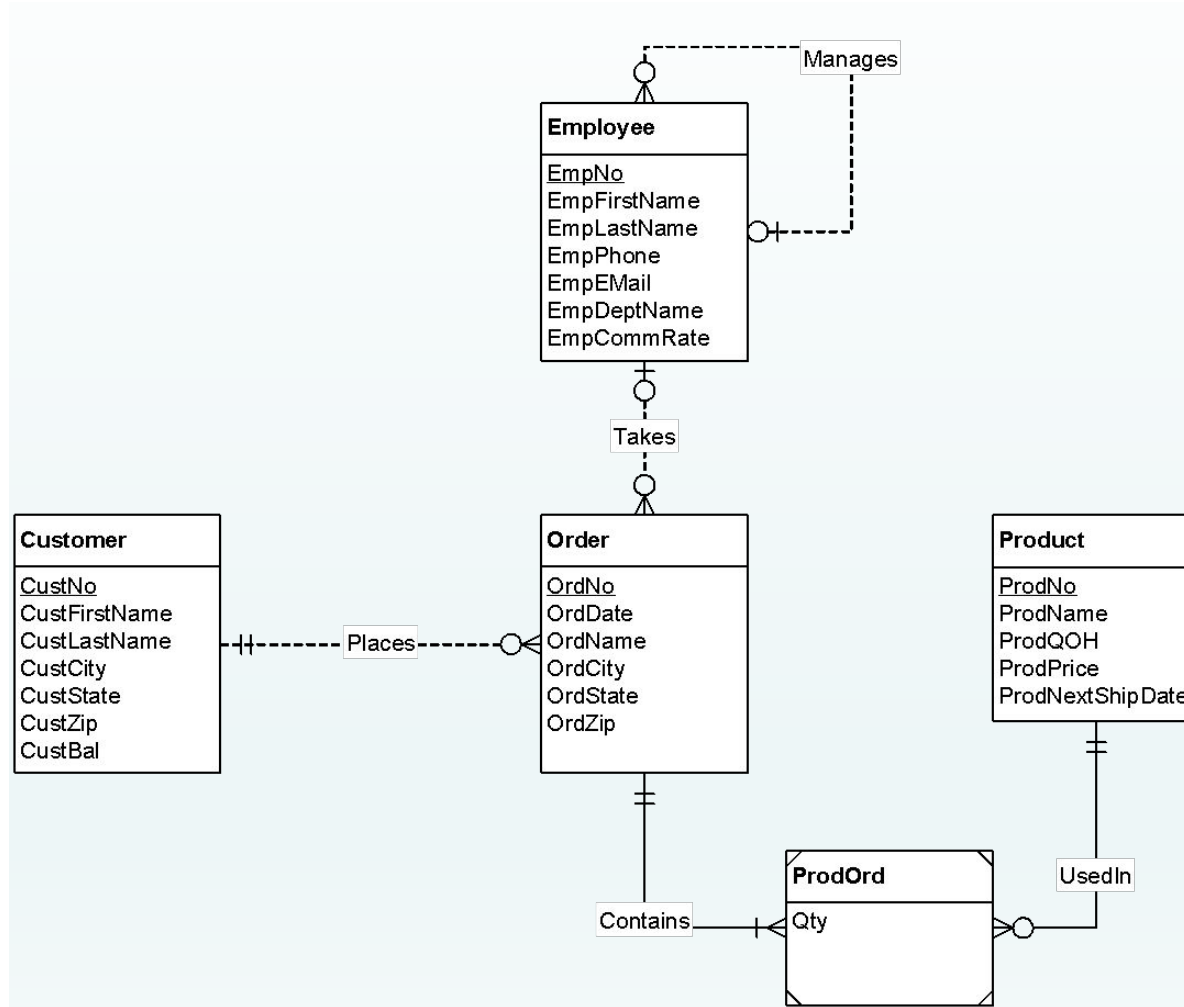


Diagram Error Problem

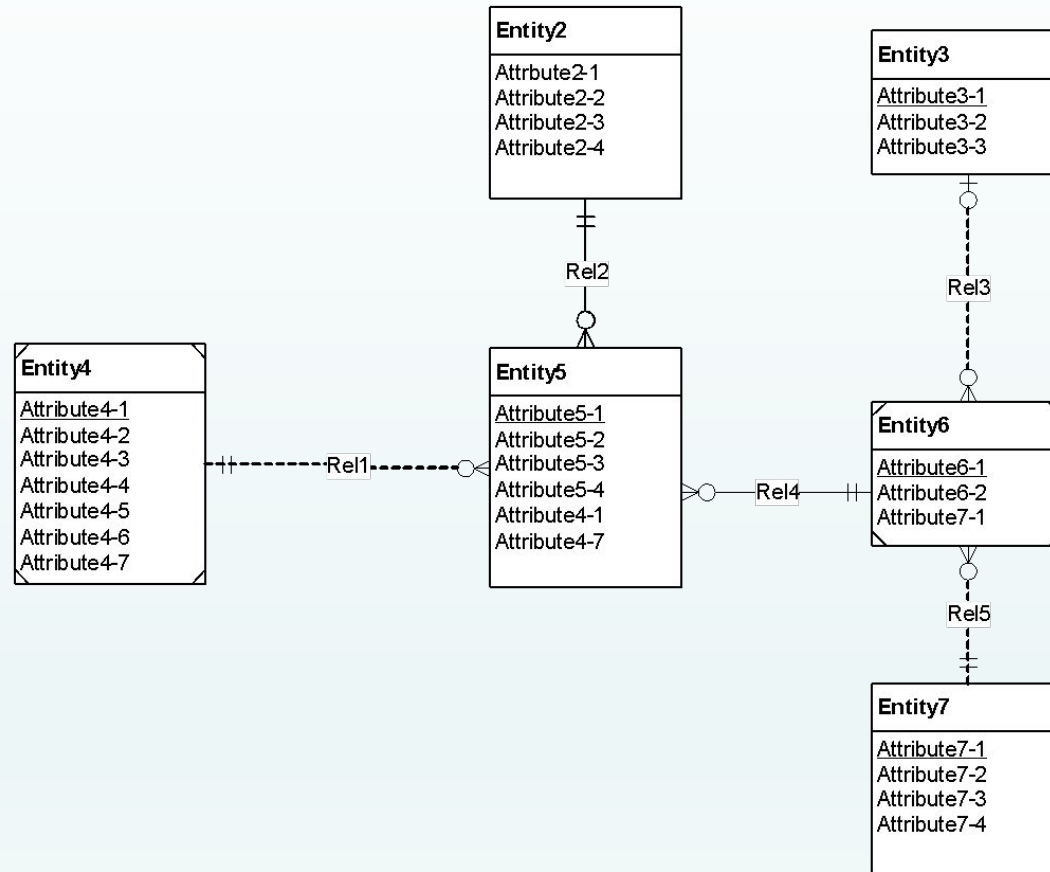
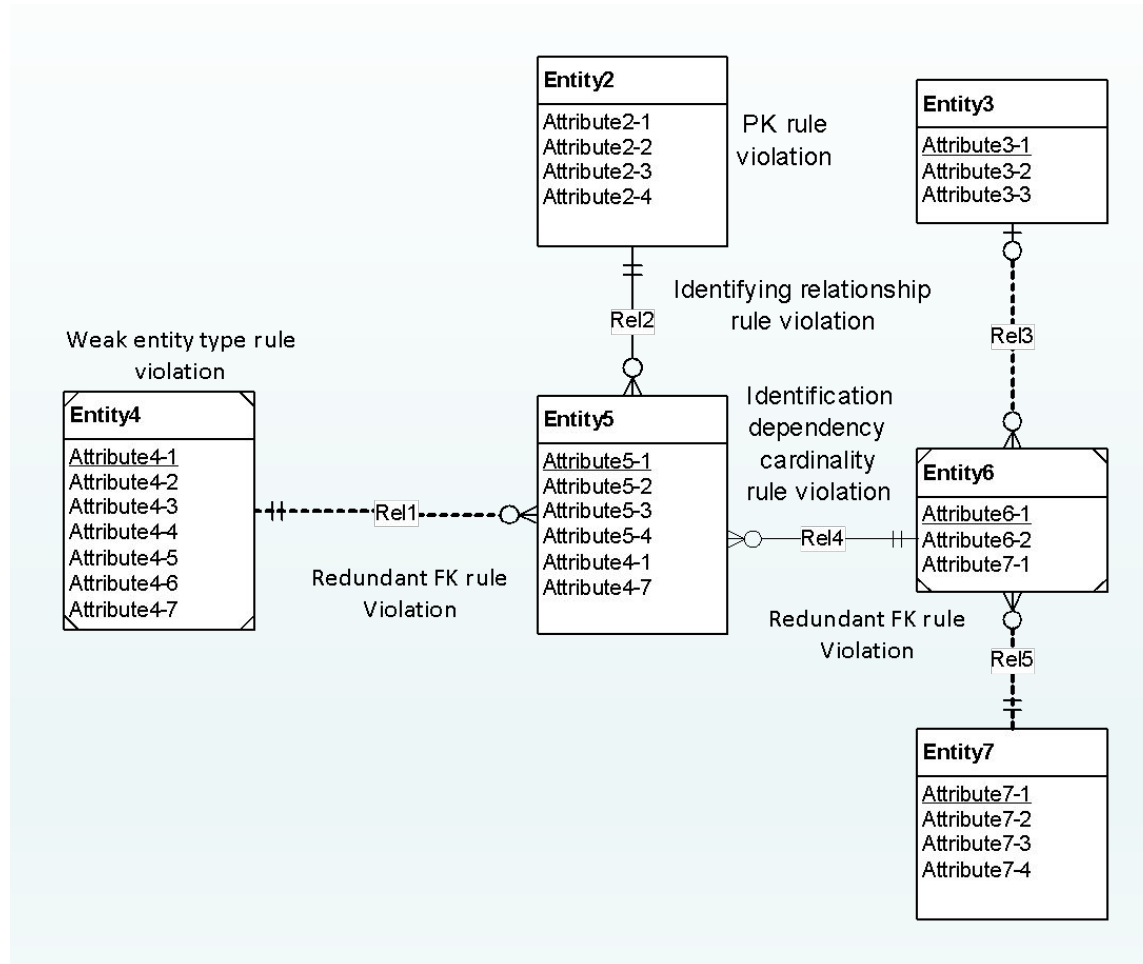


Diagram Error Problem Solution



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

