Business School
UNIVERSITY OF COLORADO DENVER

Information Systems Program

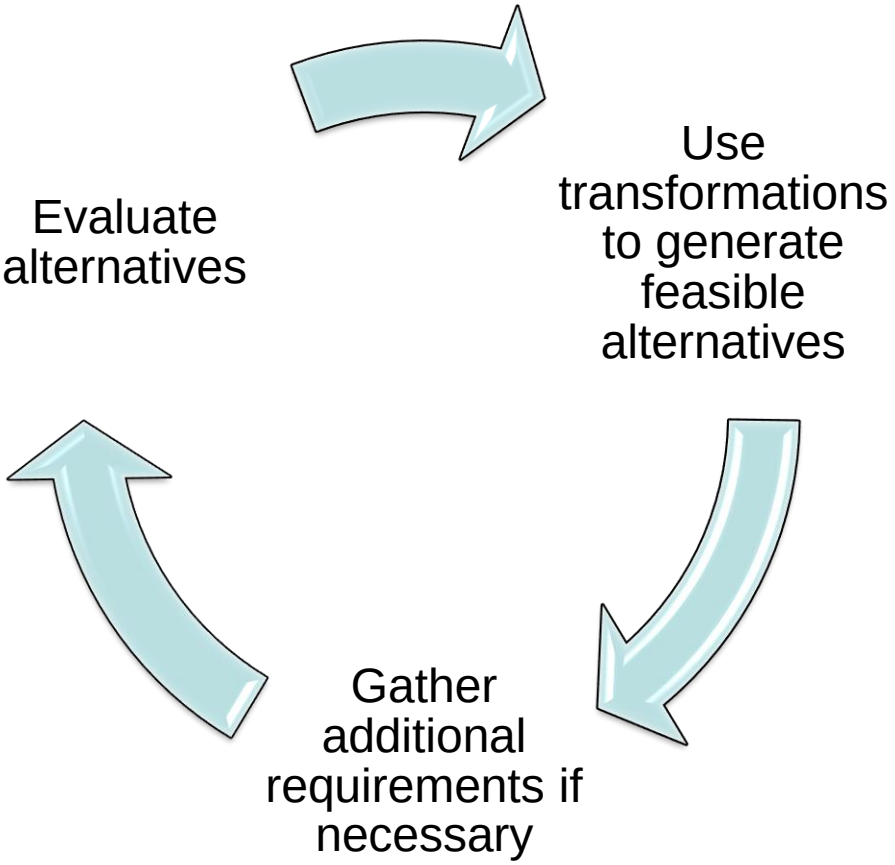
Module 8
Developing Business Data Models

Lesson 3: Design Transformations I

Lesson Objectives

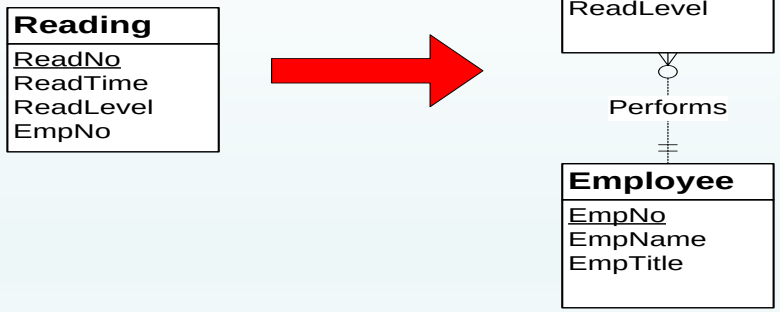
- Understand the importance of generating and evaluating alternative designs
- Explain a situation for using each transformation
- Apply each transformation

Diagram Refinements

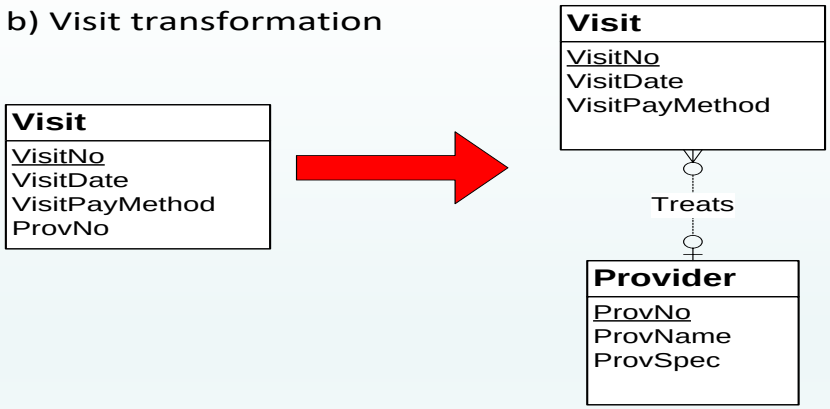


Attribute Expansion

a) Reading transformation

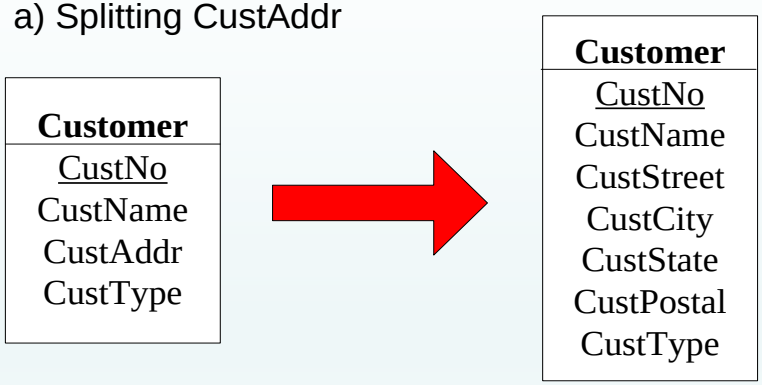


b) Visit transformation

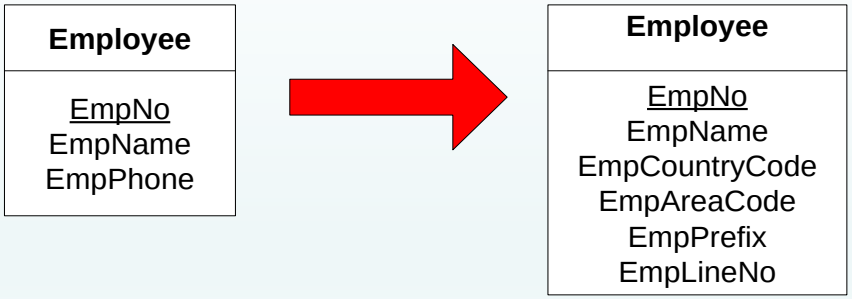


Compound Attribute Split

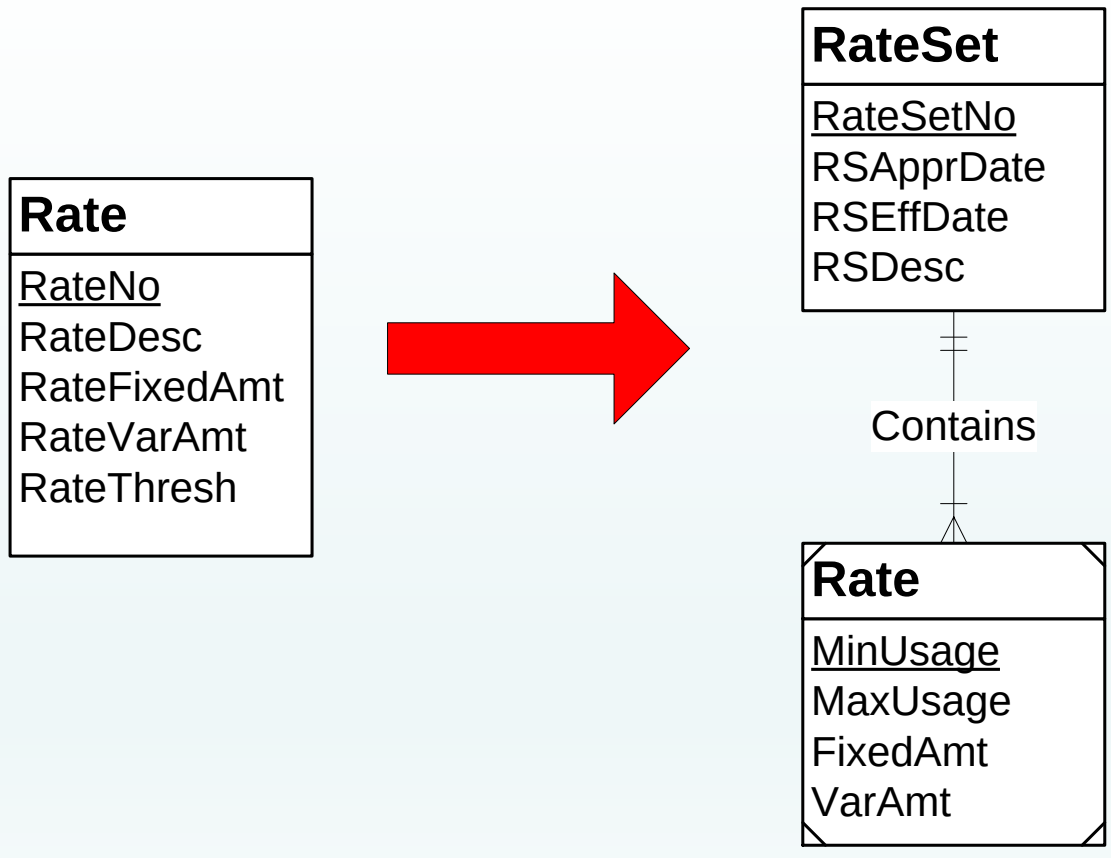
a) Splitting CustAddr



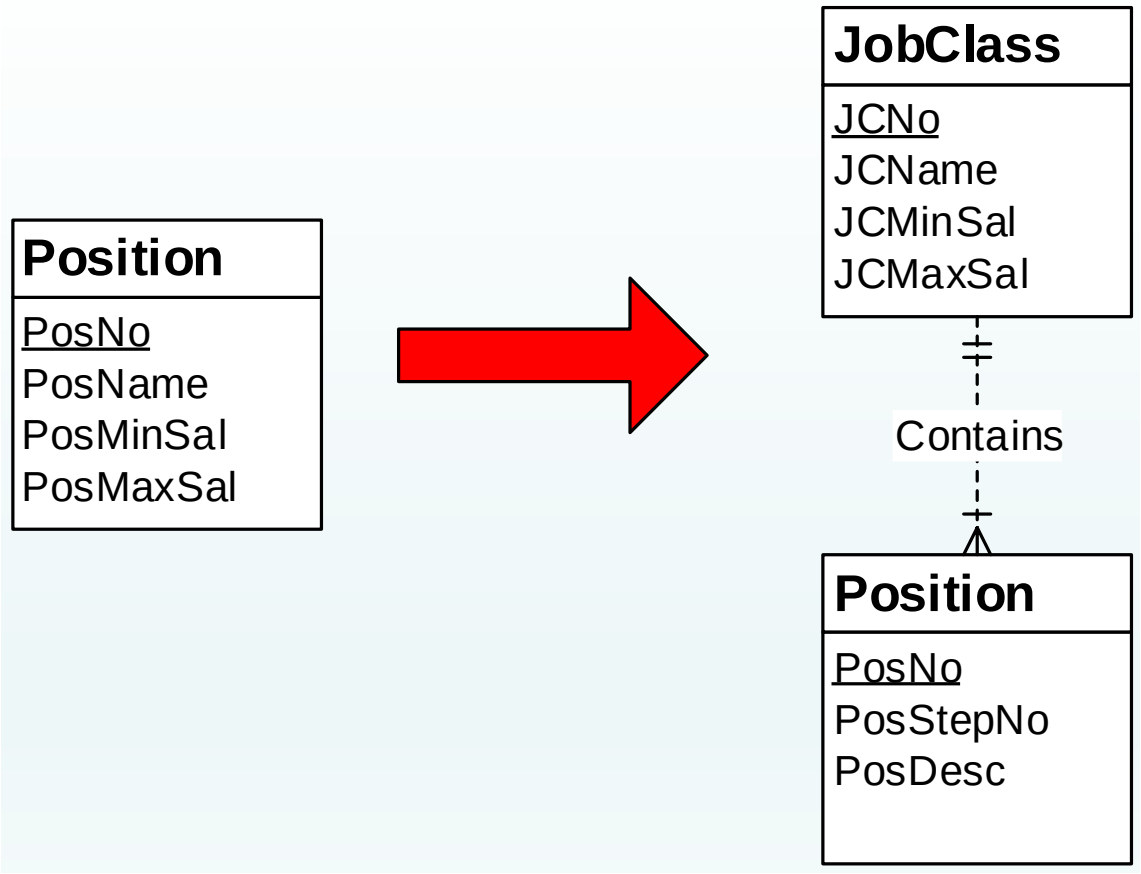
b) Splitting EmpPhone



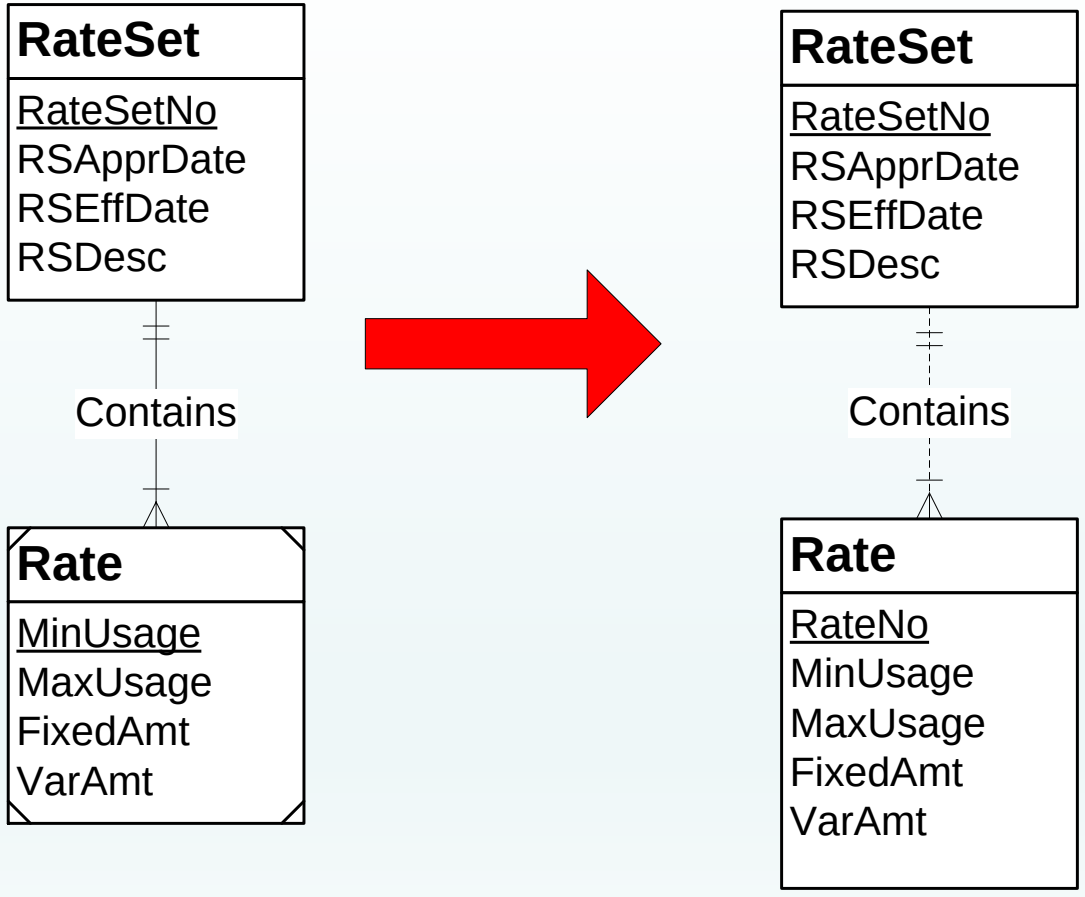
Entity Type Expansion I



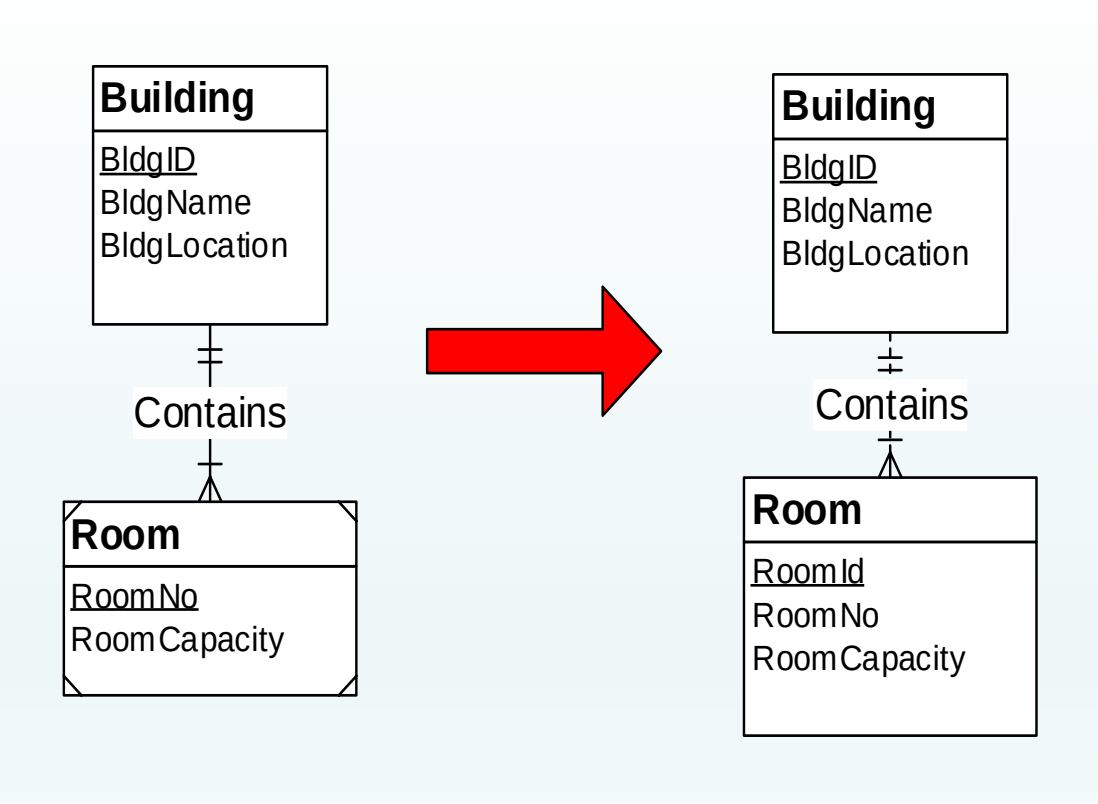
Entity Type Expansion II



Weak to Strong Entity Type I



Weak to Strong Entity Type II



Summary

- Attribute expansion
- Compound attribute split
- Entity type expansion
- Weak entity type to strong entity type