

Module 9

Data Modeling Problems and Design Errors

Lesson 2: Data Modeling Problems II



Lesson Objectives

- Practice analyzing a complex narrative problem statement
- Extend data modeling skills
- Learn from mistakes

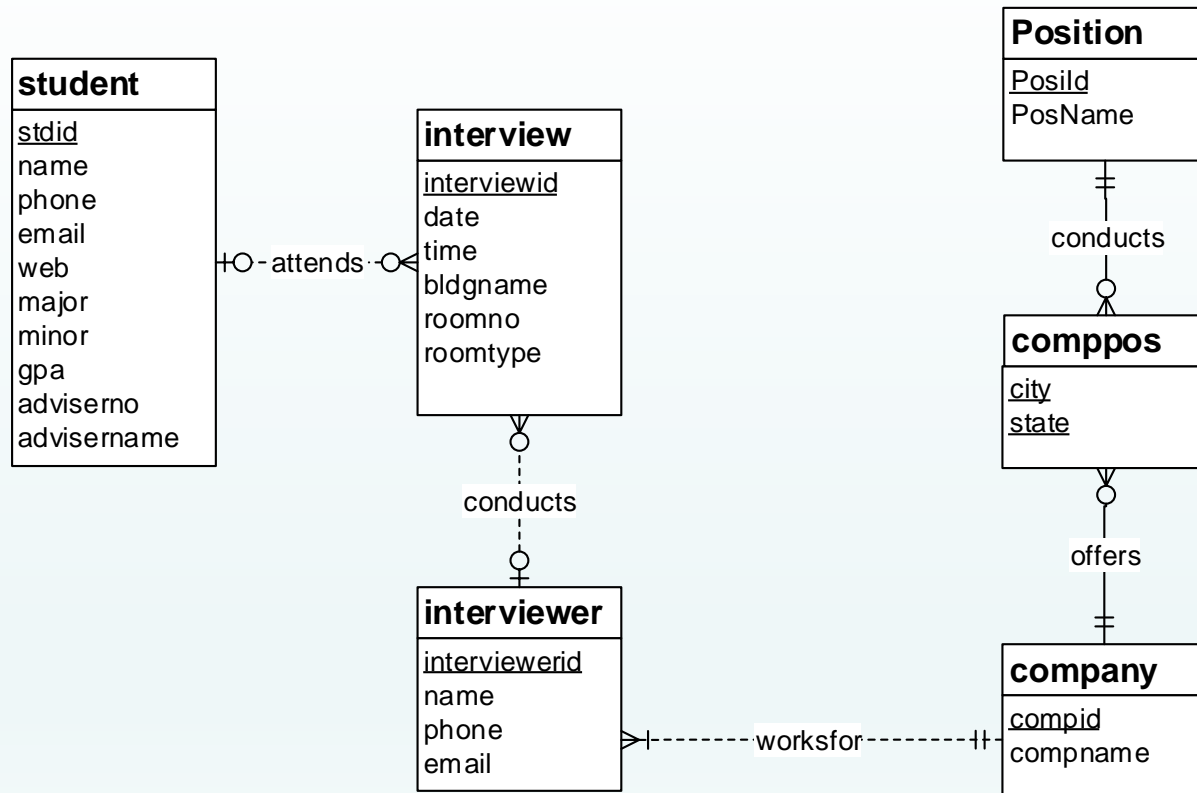


Problem 1

- Placement office database for interview scheduling and searches
- Major nouns: student, position, company, interviewer, interview
- Connections in sentences
 - Interview includes a student and interviewer
 - List of positions and interviewers for a company
 - Company lists cities for each position.
 - Each interviewer works for a company.

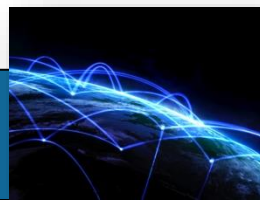


Problem 1 Initial Solution

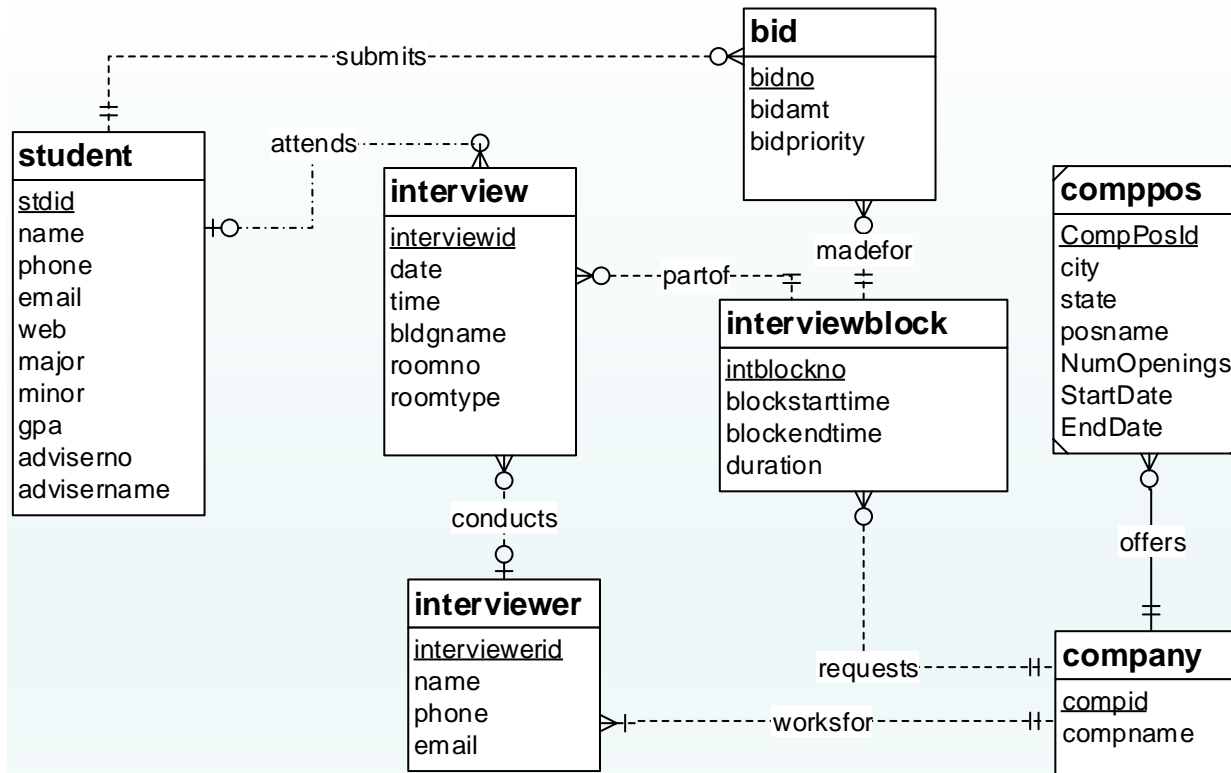


Problem 1 Revision

- Positions
 - Local to each company
 - No standardized list of positions
- Interview blocks
 - Blocks of time for interviews
 - Companies reserve interview blocks before placement office schedules interviews.
- Bids
 - Students can submit many bids for an interview blocks.
 - Interview block can receive many bids.



Problem 1 Revised Solution



Graded Problems

- Similar to exercise problems
- Basic problems
 - Simple narratives
 - Incremental extensions
- Advanced problem
 - More complex narrative
 - Revision to narrative



Summary

- Work problems to gain confidence analyzing requirements
- Focus on goals of narrative problem analysis especially on unstructured problem statements
- Use the ER Assistant or another tool for drawing ERDs
- Use notation precisely in business data modeling problems

