

Conceptual to Logical Model

Student-Course

Example: Student and Courses: Logical (Relational) Model

Relational Model:

Student: (Student#, name, address)

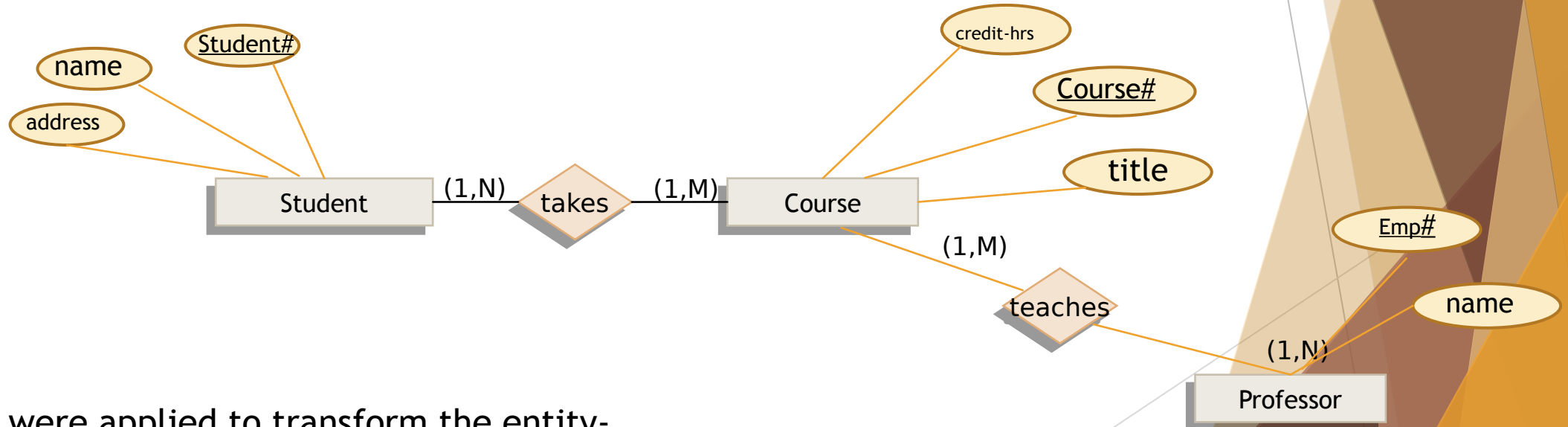
Course: (Course#, title, credit-hrs)

Professor: (Emp#, name)

Student-Course: (Student#, Course#)

Course-Professor: (Course#, Emp#)

Conceptual Model:



What rules were applied to transform the entity-relationship model to the relational model?

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Relational Model:

Student: (Student#, name, address)

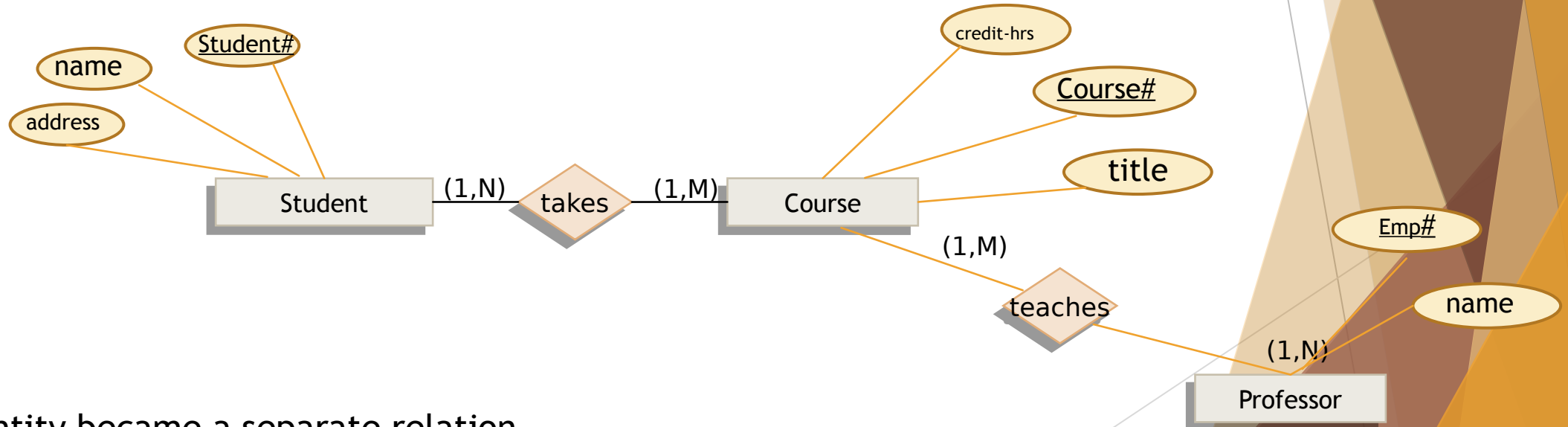
Course: (Course#, title, credit-hrs)

Professor: (Emp#, name)

Student-Course: (Student#, Course#)

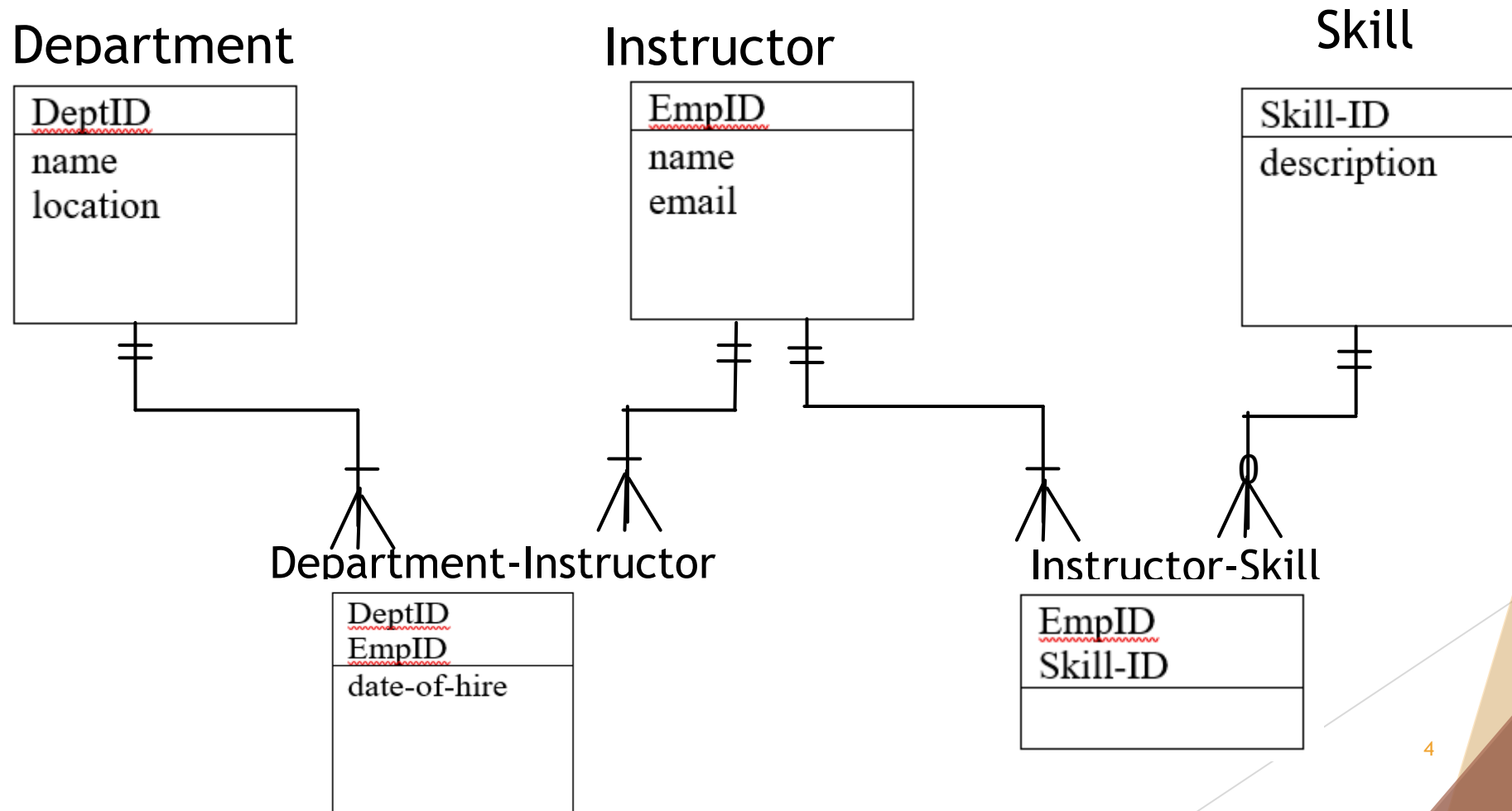
Course-Professor: (Course#, Emp#)

Conceptual Model:

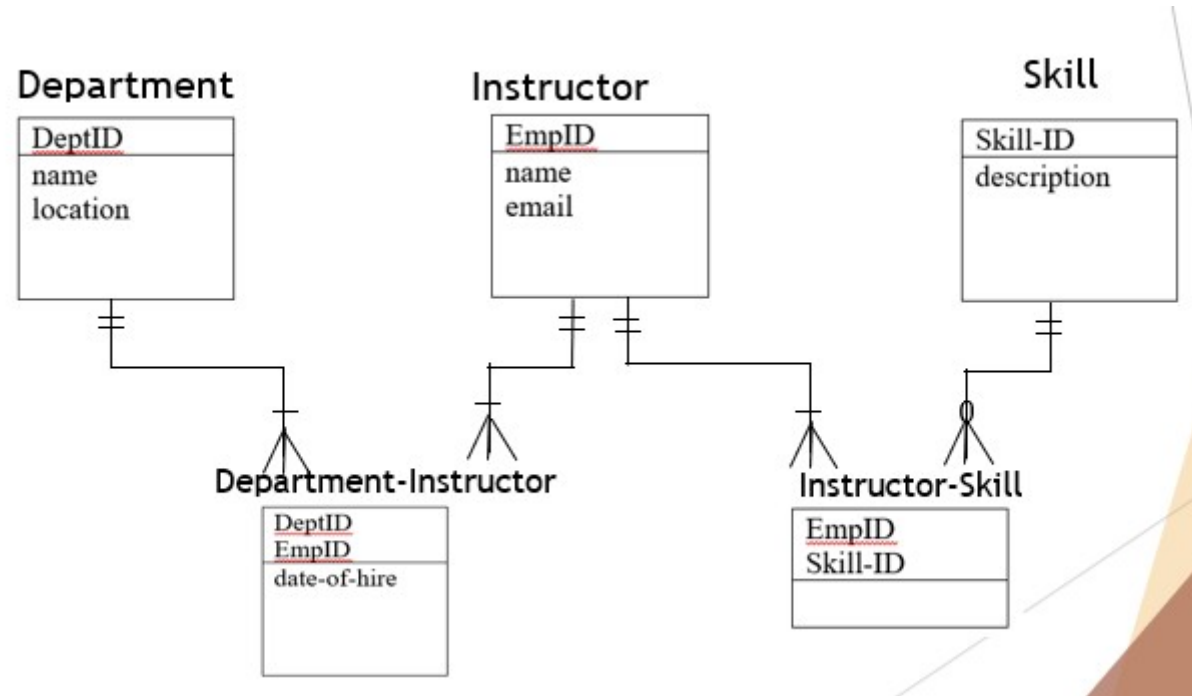


Ans. Each entity became a separate relation.
Each of the many-to-many relationships became separate relations. Two additional relations.

Example: Instructors assigned to department



Example: Instructors assigned to department



Relations:

Department: (DeptID, name, location)

Instructor: (EmpID, name, email)

Skill: (Skill-ID, description)

Department-Instructor: (DeptID, EmpID, date-of-hire)

Instructor-Skill: (EmpID, Skill-ID)