Module 1: SQL & Relational Database
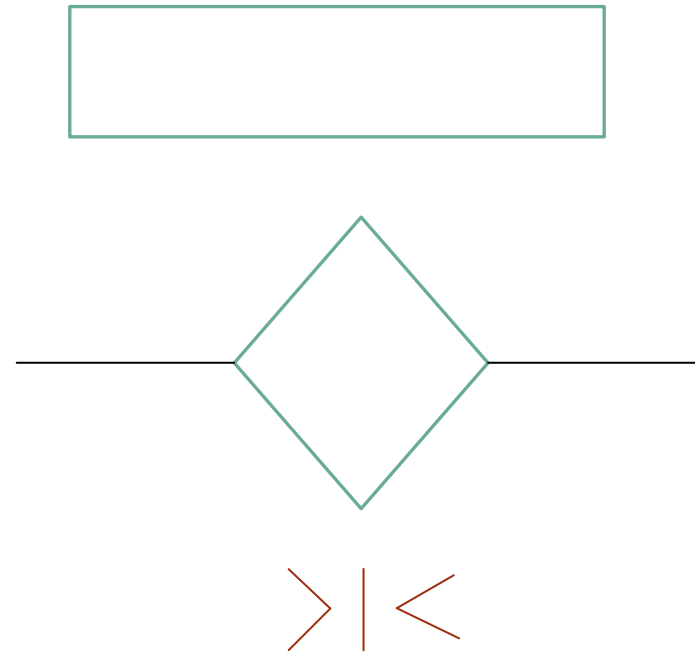
Lesson 3: Types of Relationships

- ➢ Describe building blocks of a relationship
- ➢ Explain the Symbols used in a relationship set
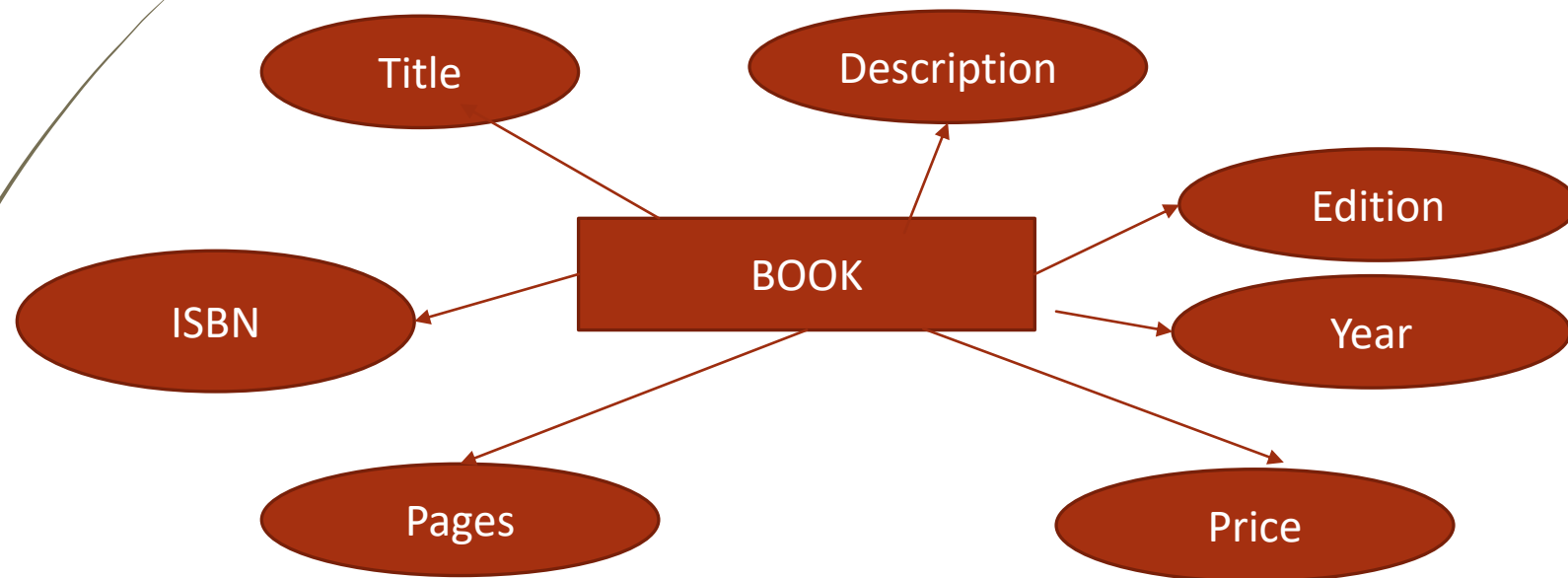- ➢ Difference between 1-to-1 and many-to-many relationships

Atul Kadlag
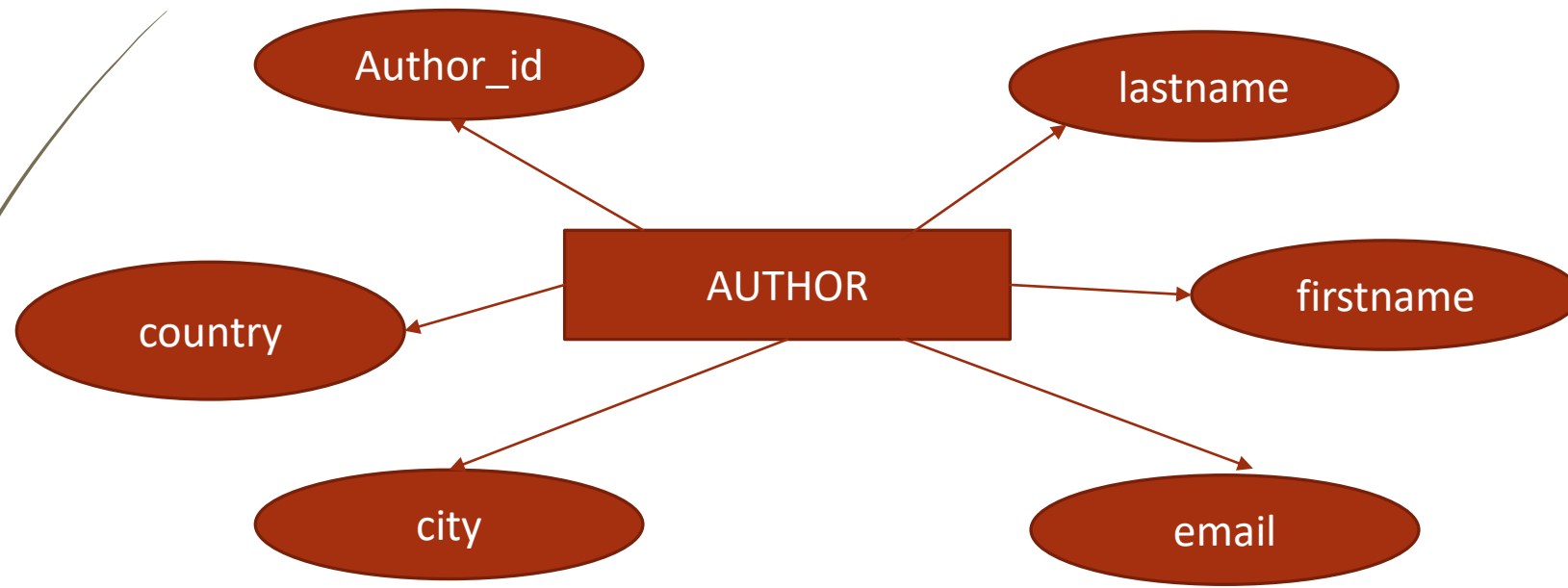
Building blocks

Building blocks of relationships:

- Entities sets
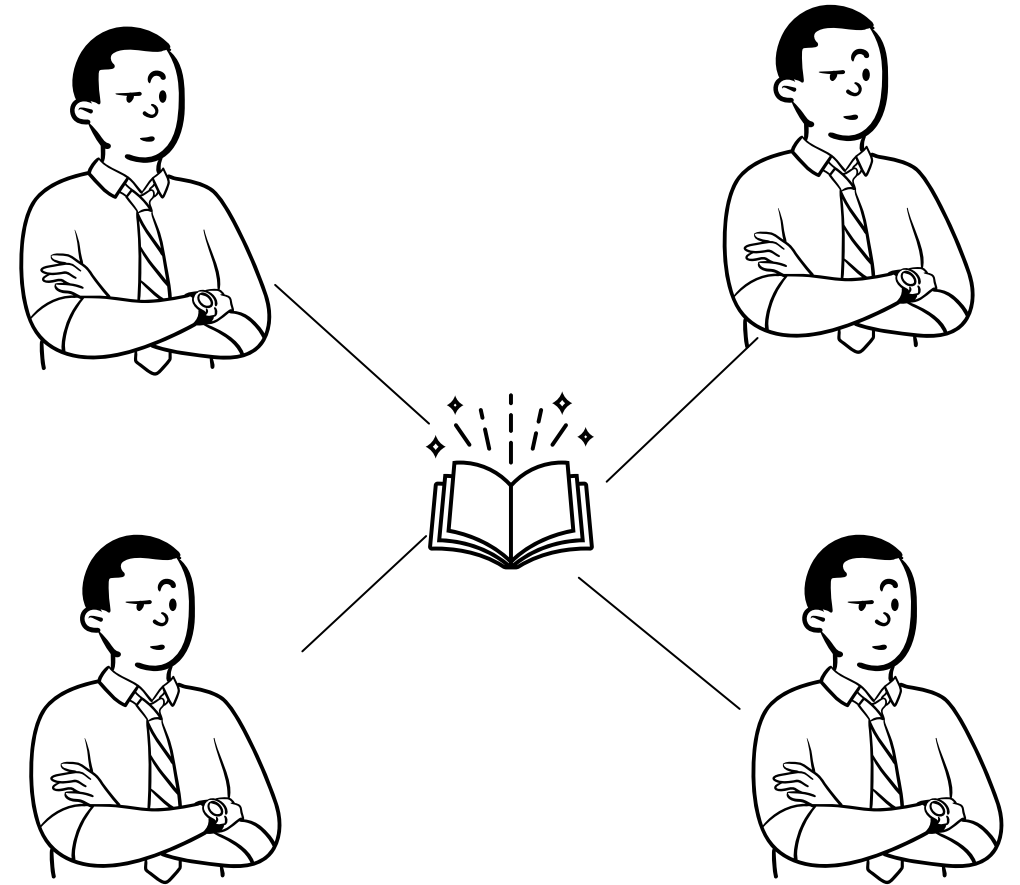- Relationship sets
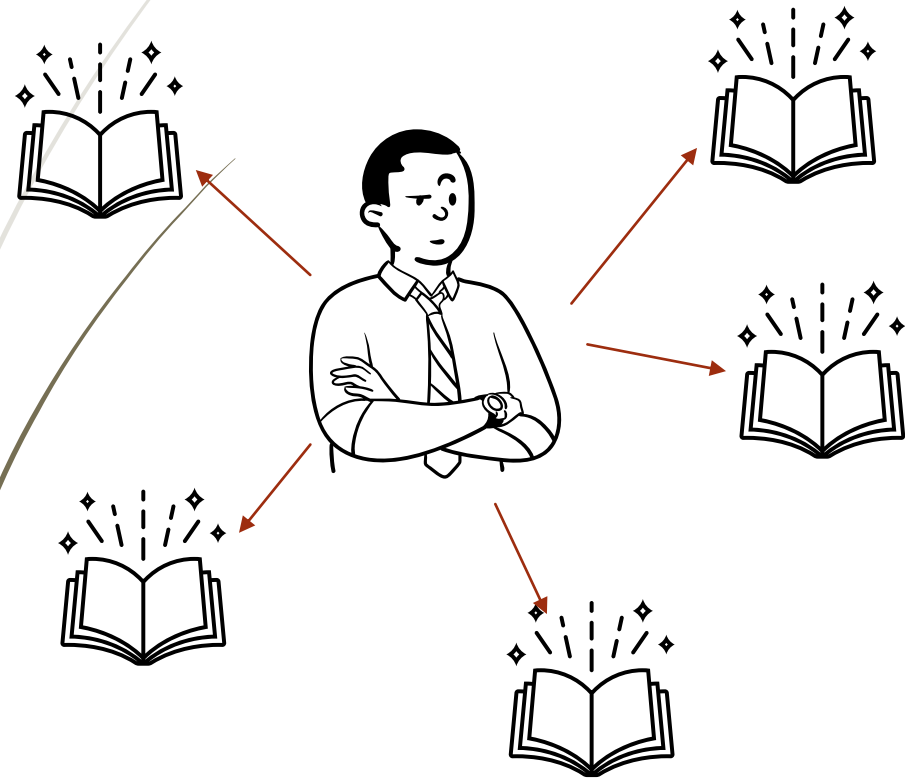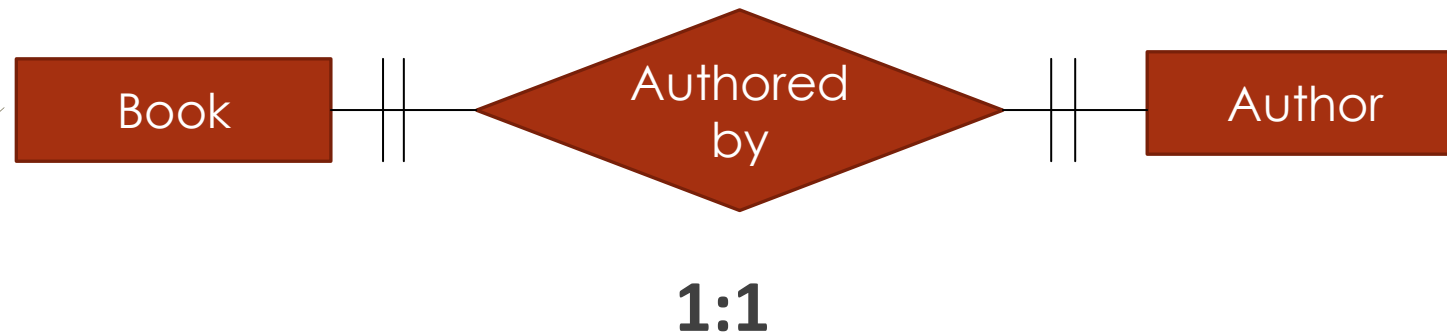- Crows foot notations

ER Diagram

ER Diagram

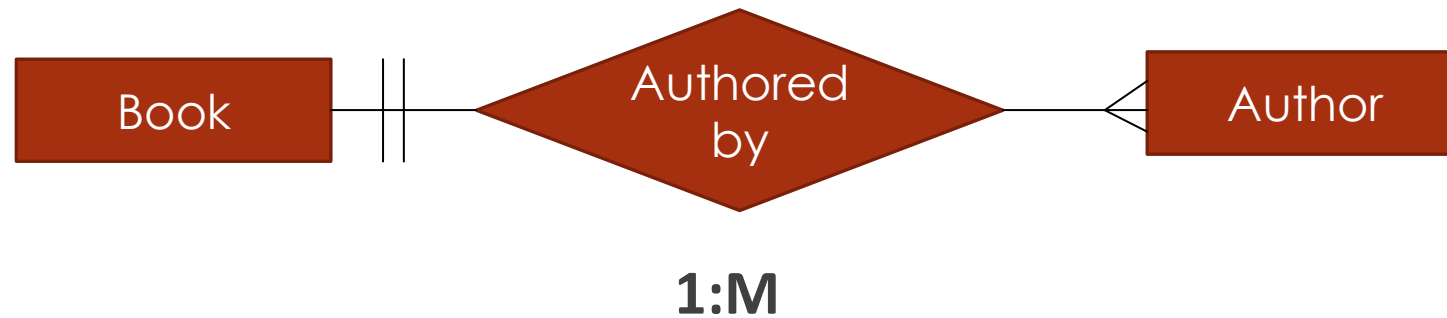# Defining relationships between entities

One-to-one relationship

- A book written by one author

1:1

One-to-Many relationship

- A book written by many author

- Crows foot notation, less-than symbol

- Many-to-one relationship for many authors writing single book

1:M

Many-to-Many relationship

- many books written by many author

- Crows foot notation, less-than symbol

- Many authors writing many books

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[Book] >—< (Authored by) >—< [Author]
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M:M

Summary

- Building blocks of relationships

- Different relationship types

- Difference between relationship types.