





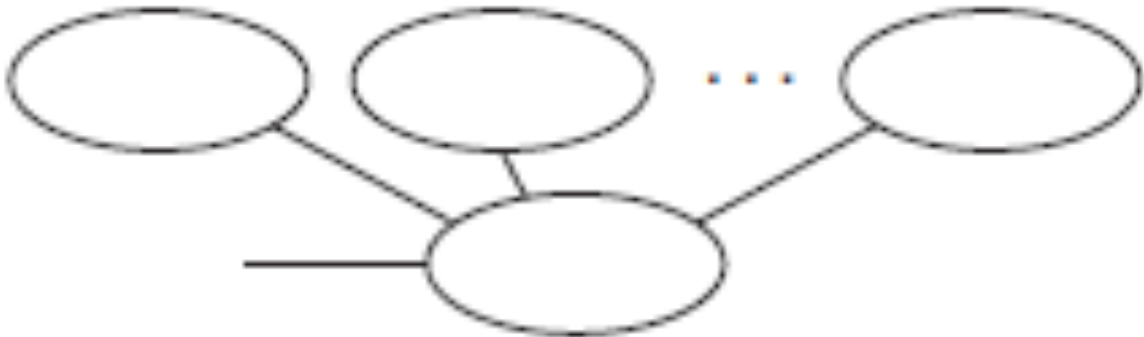

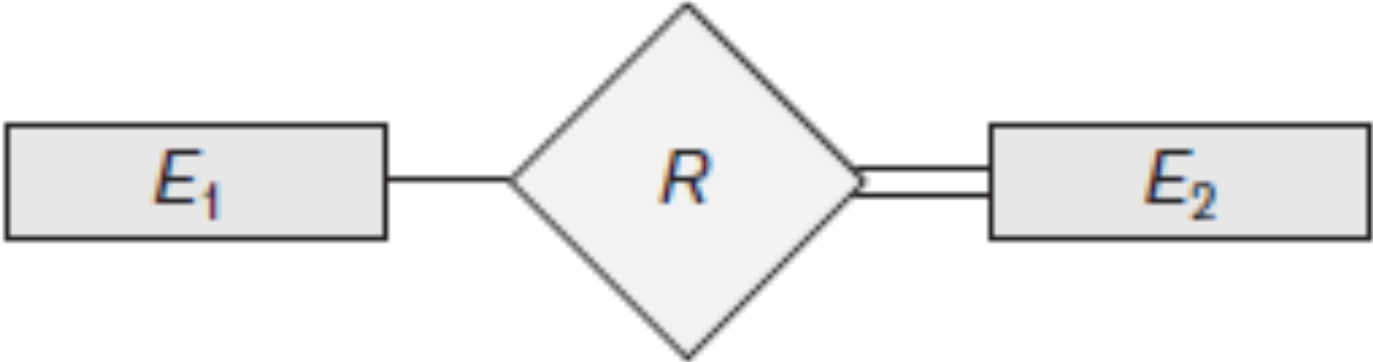
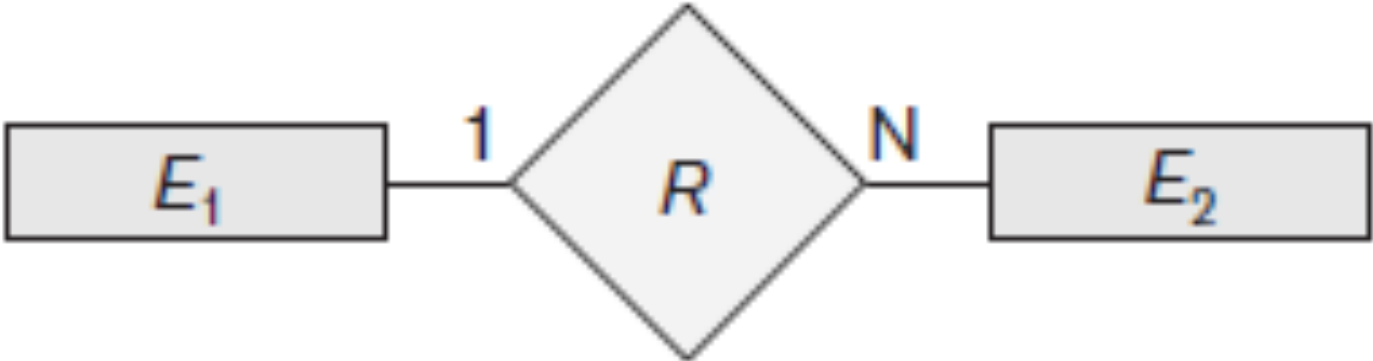
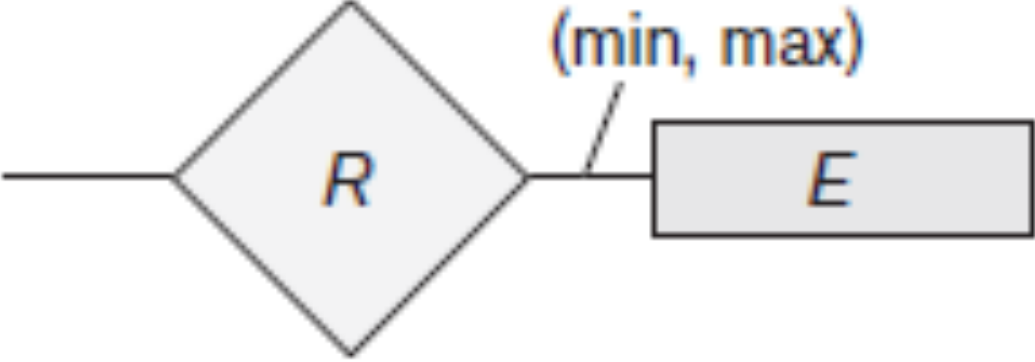


COMP107 TUTORIAL 3

Designing an ER schema

- Need to identify basic components:
 - entity types, relationship types, attributes
 - and for each of these components:
 - *key* attributes (unique for each entity)
 - cardinality and participation constraints of relationships
 - different entity types

Symbol	Meaning
	Entity
	Weak Entity
	Relationship
	Identifying Relationship
	Attribute
	Key Attribute

Symbol	Meaning
	Composite Attribute
	Derived Attribute
	Total Participation of E_2 in R
	Cardinality Ratio 1: N for $E_1:E_2$ in R
	Structural Constraint (min, max) on Participation of E in R

Evolutionary data modelling

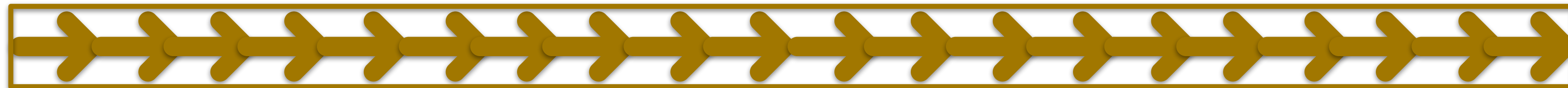
- Evolutionary data modelling is an approach that proceeds in an incremental manner
 - an initial ***slim*** model is created that satisfies some initial requirements
 - the model is then refined in a set of iterations, adding details

Task for today

- **In groups, draw an ER model to describe the data needed by the conference planner app discussed in Tutorial 1, starting from user stories**
- **3 iterations, 8min each (+ discussion)**
 - you will shortly be sent to “breakout rooms”, please accept the invitation to enter the room
 - once you enter the room, look in the chat for the link to a **shared google diagram document** which your room will use
 - you will **receive instructions in the chat** for the next iteration at the 8th and the 16th minute (roughly), then return

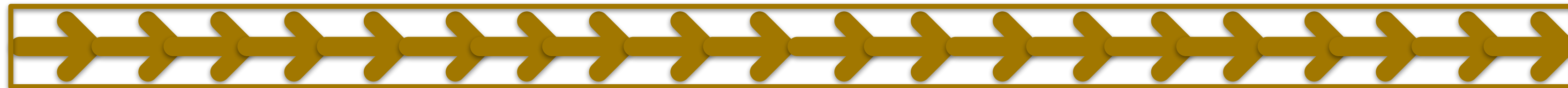
1st Iteration

- User stories:
 1. As a speaker, I want to upload the details of my keynote
 2. As a speaker, I want to know when my keynote is scheduled



2nd Iteration

- User stories:
 3. As a participant, I want to register my attendance to a keynote
 4. As a participant, I want to book a hotel room



3rd Iteration

- User stories:
 5. As an organiser, I want to know which conference participants are also giving a keynote

