#### **Understanding ER-Model**

- 1. B
- 2. C
- 3. C (line means a key that uniquely identifies the entity, dotted line (on weak entity) means partial key that uniquely identifies the entity only with the corresponding other entity)
- 4. D (N can mean any number and there's no need to participate in the relation)
- 5. T
- 6. F
- 7. F
- 8. F
- 9. T
- 10. T
- 11. T (to have a isDaughter relationship there needs to be 1 mother and 1 father)
- 12. F (no need to participate in the isSon relationship
- 13. T
- 14. T
- 15. F (no need to participate)
- 16. F

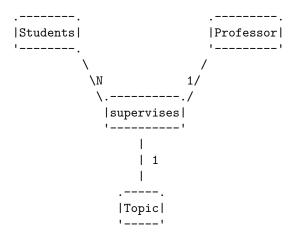
#### Cardinalities in Min/Max Notation

Departments can have many employees, employees can have work or not.

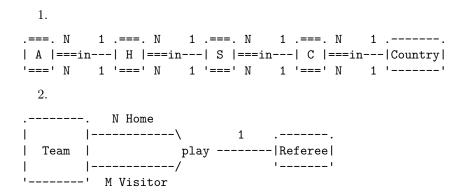
Rest is like this.

## Cardinalities in Ternary Relationships

Not possible because there are cases we can't cover.



### Modeling Miniworlds: Getting started



# Miniworld: International Wholesale Supplier