

DATA BASE MODELLING USING ENTITY RELATIONSHIP MODELLING

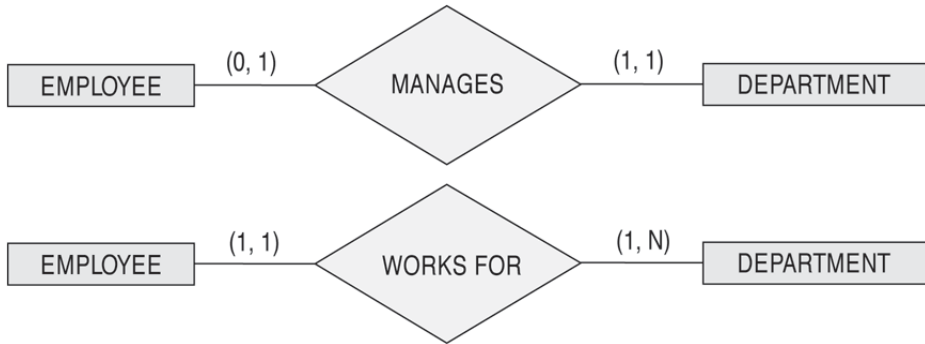
SONY P, Assistant Professor

Model Engineering College

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- 1 min Max Notation
- 2 min Max Example
- 3 min MaxCompany
- 4 N Ary Relationship

Min Max Notation



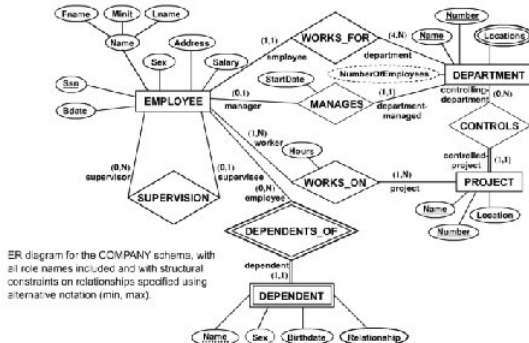
Min MAX Notation



Min MAX Notation











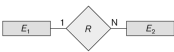

COMPANY ER Schema Diagram using (min, max) notation

Alternative ER Notations

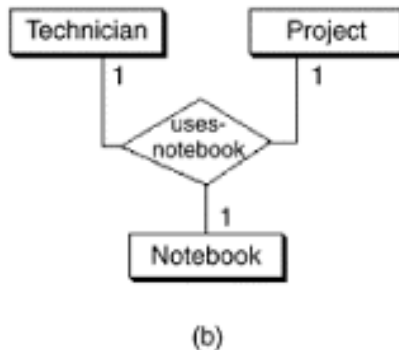
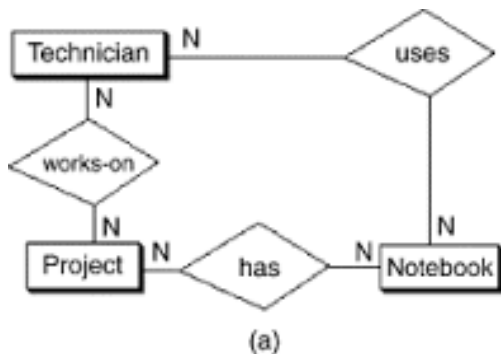


Min Max Notation

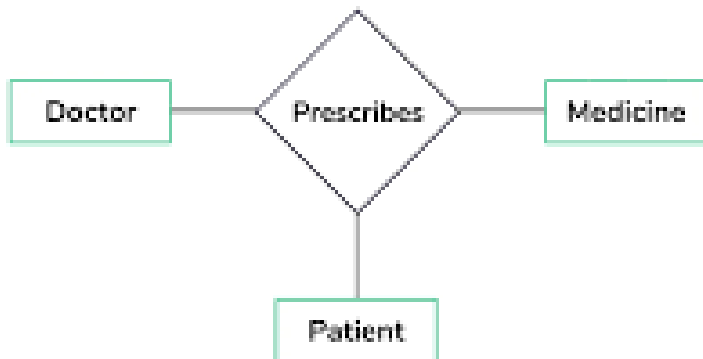
Figure 3.14
Summary of the
notation for ER
diagrams.

Symbol	Meaning
	Entity
	Weak Entity
	Relationship
	Identifying Relationship
	Attribute
	Key Attribute
	Multivalued Attribute
	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

Ternary Relationship



Ternary Relationship



Relationships of Higher Degree

- 1 Relationship types of degree 2 are called **binary**
- 2 Relationship types of degree 3 are called **ternary** and of degree n are called n ary
- 3 In general, an n – ary relationship is not equivalent to n binary relationships
- 4 Constraints are harder to specify for higher degree relationships ($n > 2$) than for binary relationships

Ternary Relationship

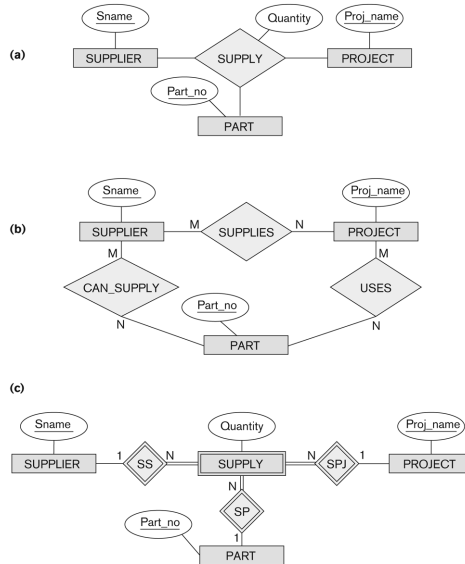


Figure 3.17