ER Model - Conceptual

Requirements
• *Data Requirements*
• Functional Requirements

Multivalued vs.
Singlevalued

(Single_valued)   vs.   ((Multi_valued))

Stored vs. Derived

(Stored)   vs.   (Derived)

Simple vs. Composite

(Simple)   vs.   (Simple_1) (Simple_2)

(Composite)
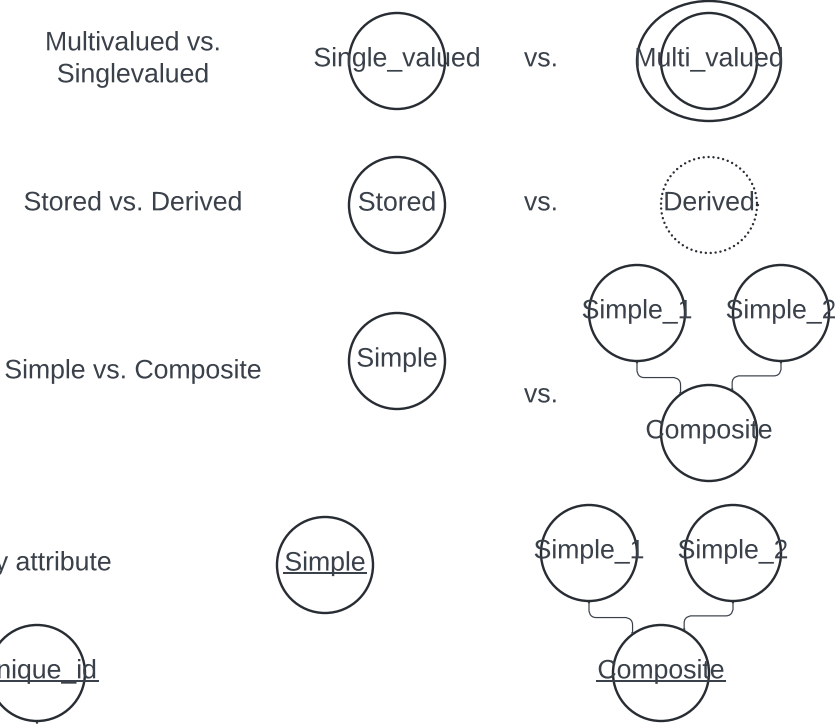
Degree of relationships -
number of participating
entity types in a
relationship type R.

Key attribute

(Simple)

(Simple_1) (Simple_2)

(Composite)

Recursive (Self
Referencing)
Binary - degree = 2
Ternary - degree = 3

Role - important for self
referencing relationships

(Unique_id)

[STRONG]   **Owner Entity Type**

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◇ IDENTIFYING_RELATIONSHIP ◇
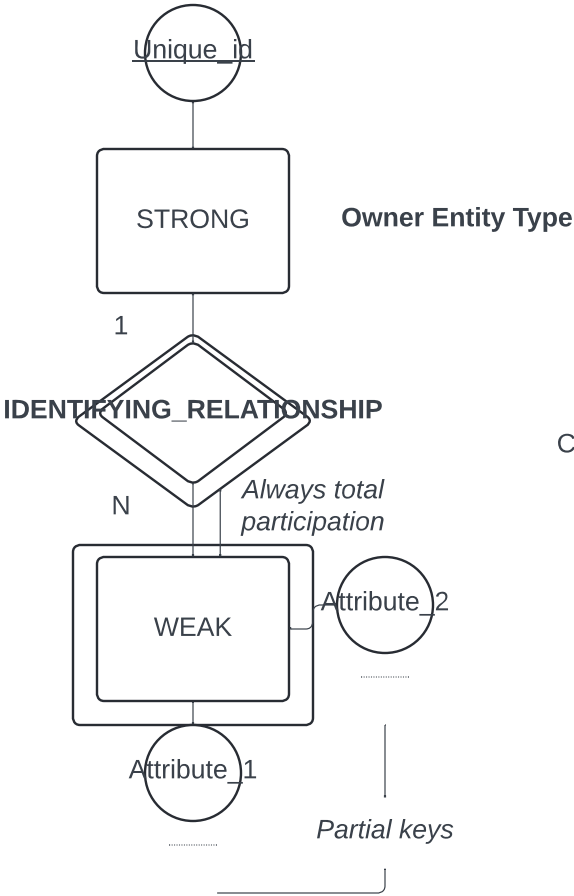
Structural Constraints
Cardinality & Participation

UML Diagram

Typename
Attributes (+,-)
Behaviors / Methods

N   *Always total
participation*

[WEAK]   (Attribute_2)

(Attribute_1)

Partial keys