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ENTITY

Strong Entity

Weak Entity

ATTRIBUTE

Simple Attribute

Composite Attribute

Single valued Attribute

Multivalued Attribute

Stored Attribute

Derived Attribute

Composite Attribute
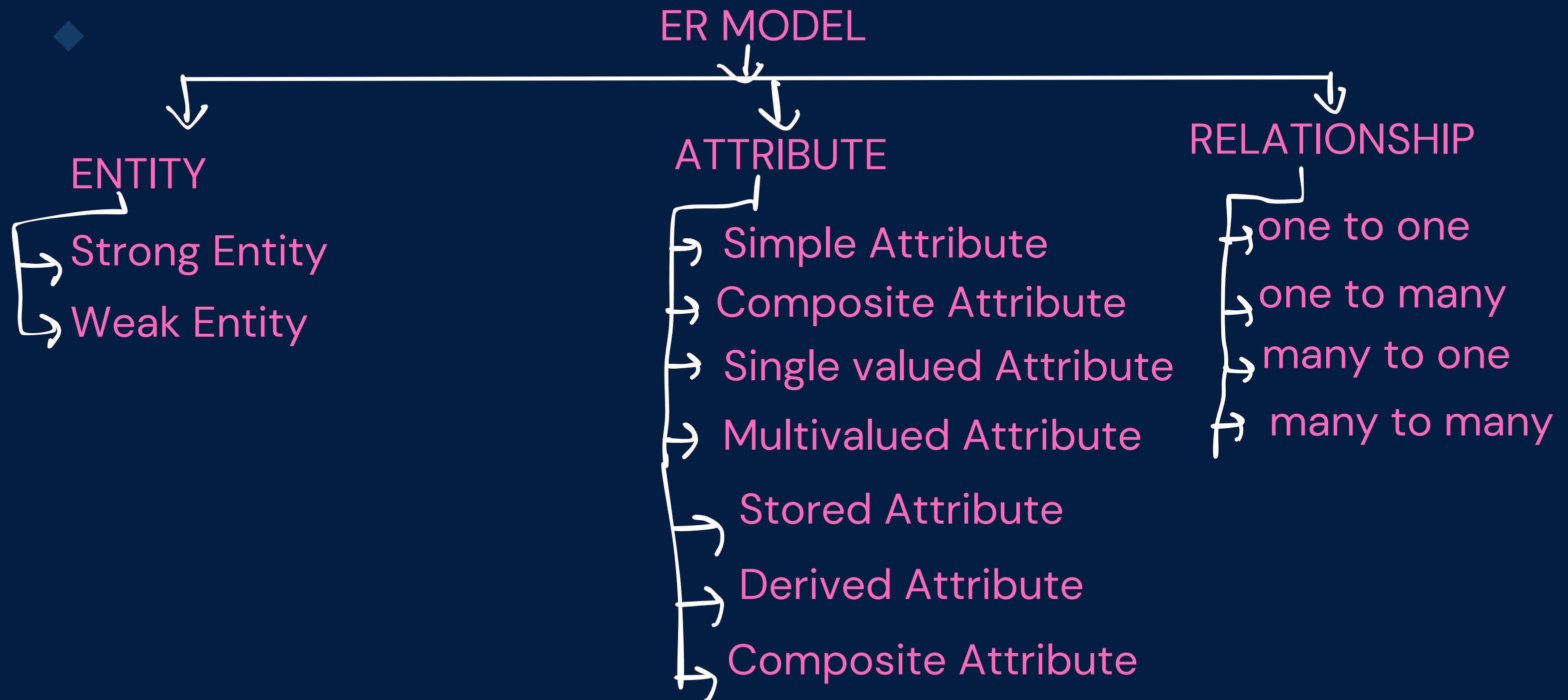
RELATIONSHIP

one to one

one to many

many to one

many to many

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Attribute

Attributes represent properties or characteristics of an entity or relationship.

They provide information about the entities and relationships in the database.

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- ### Types of Attributes

Simple Attribute

A simple attribute is atomic and cannot be divided any further.
Ex- First Name

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- **Types of Attributes**

Composite Attribute

A composite attribute is made up of several smaller parts, where each part represents a piece of the whole attribute. In simpler terms it is composed of attributes which can be divided further.

Ex- Name(First Name, lastName)

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- **Types of Attributes**

Single Valued Attribute

A single-value attribute is an attribute that holds a single value for each entity

Ex- Age

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- ### Types of Attributes

Multivalued Attribute

A multi-valued attribute in a database is an attribute that can hold multiple values for a single entity.

Ex- Address (permanent, residential)

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- **Types of Attributes**

Stored Attribute

Attribute that is stored as a part of a database record.

Ex- Date of birth

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- ### Types of Attributes

Derived Attribute

A derived attribute is derived from other attributes within the database.
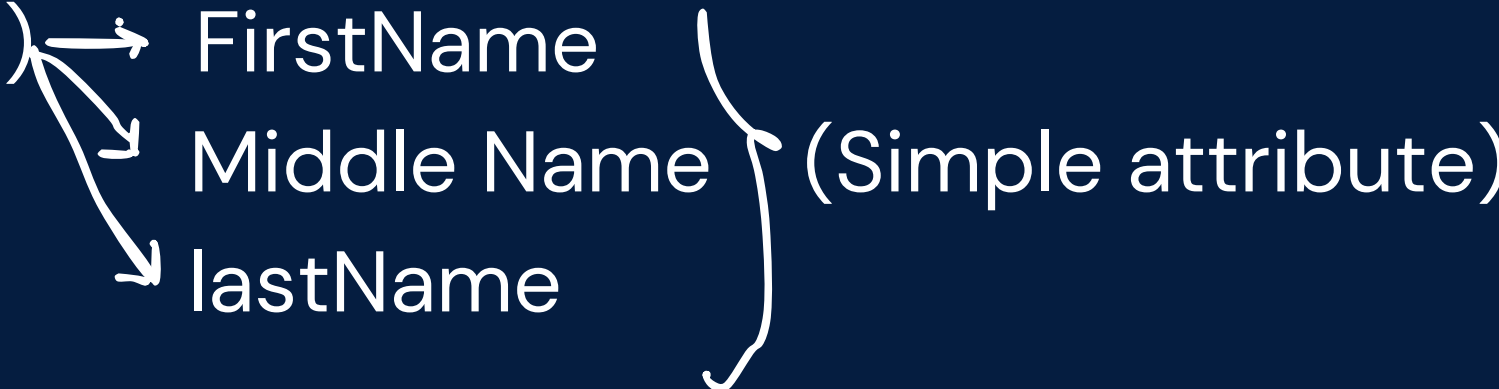
Ex- Age derived from dob

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- ### Types of Attributes

Complex Attribute

A complex attribute is an attribute that is made up of multiple smaller attributes

Ex- Name(Composite) → FirstName
                        Middle Name } (Simple attribute)
                        lastName