ER MODEL IN DBMS

Extended ER features

Specialization

Specialization in the ER model is like categorizing entities based on common features.

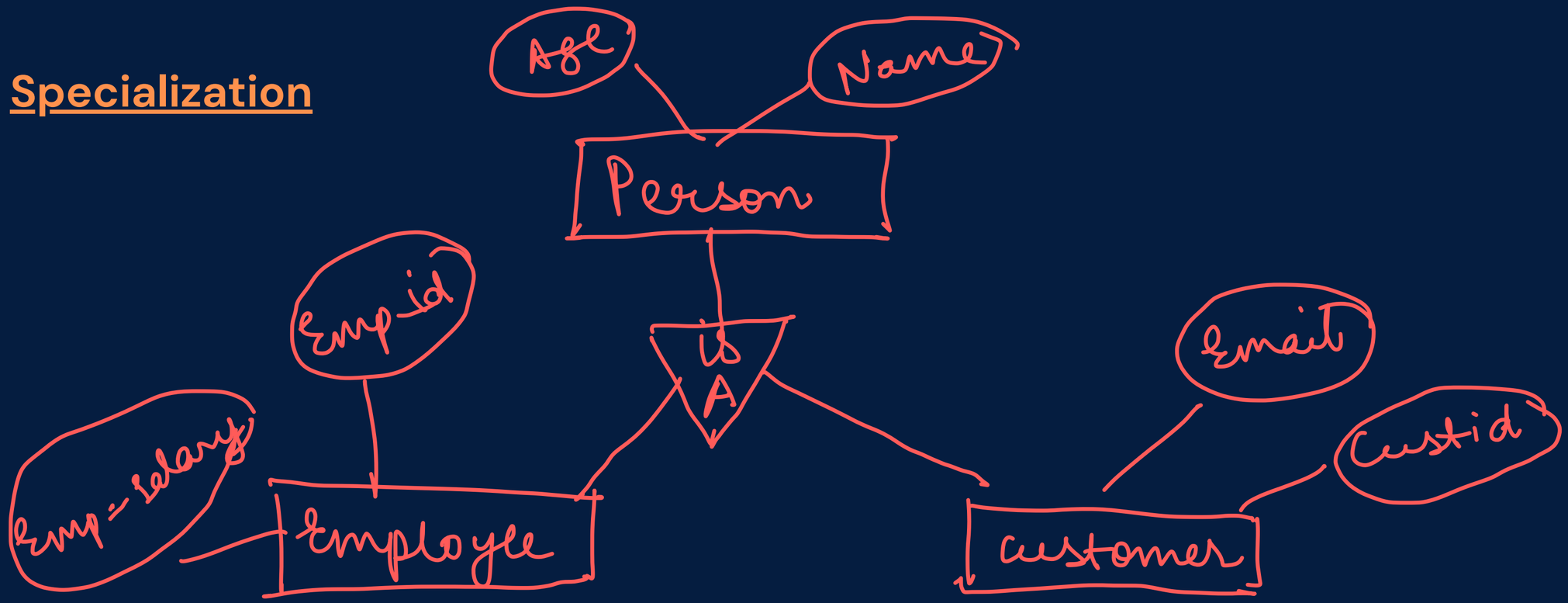
A "Supertype" groups entities with shared attributes and relationships, while "Subtypes" have their own unique attributes and relationships. It's a way to organize data efficiently. It is a **Top-Down approach.**

We have **is-a** relationship between superclass and subclass.

ER MODEL IN DBMS

Extended ER features

Specialization



ER MODEL IN DBMS

Extended ER features

Generalization

Generalization is like finding things that are alike and putting them into a big group to represent what they have in common. It helps make things simpler and organized.

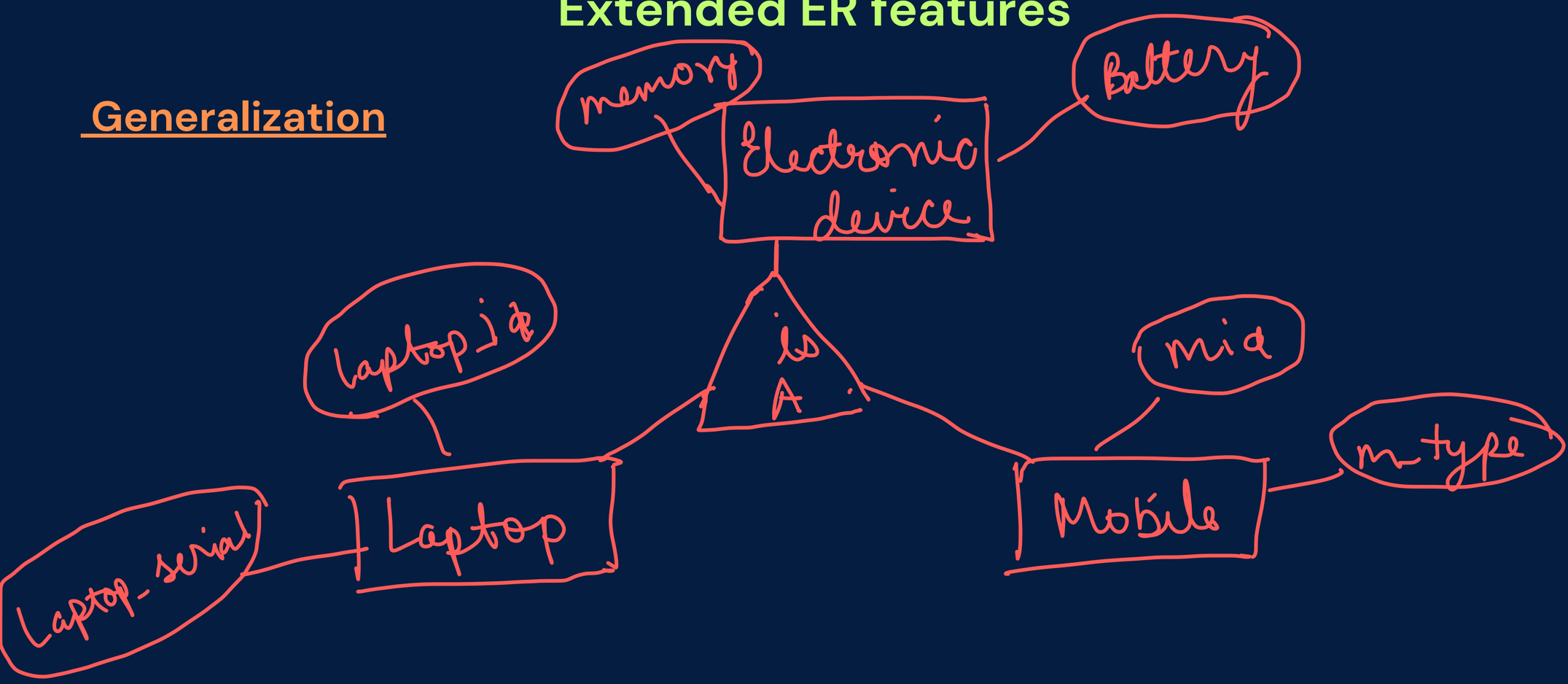
It is a **Bottom-Up approach.**

We have **is-a** relationship between subclass and superclass.

ER MODEL IN DBMS

Extended ER features

Generalization



ER MODEL IN DBMS

Extended ER features

Inheritance

Attribute

Both specialization + generalization exhibit attribute inheritance

Participation

If parent → participate → relation

child → participate