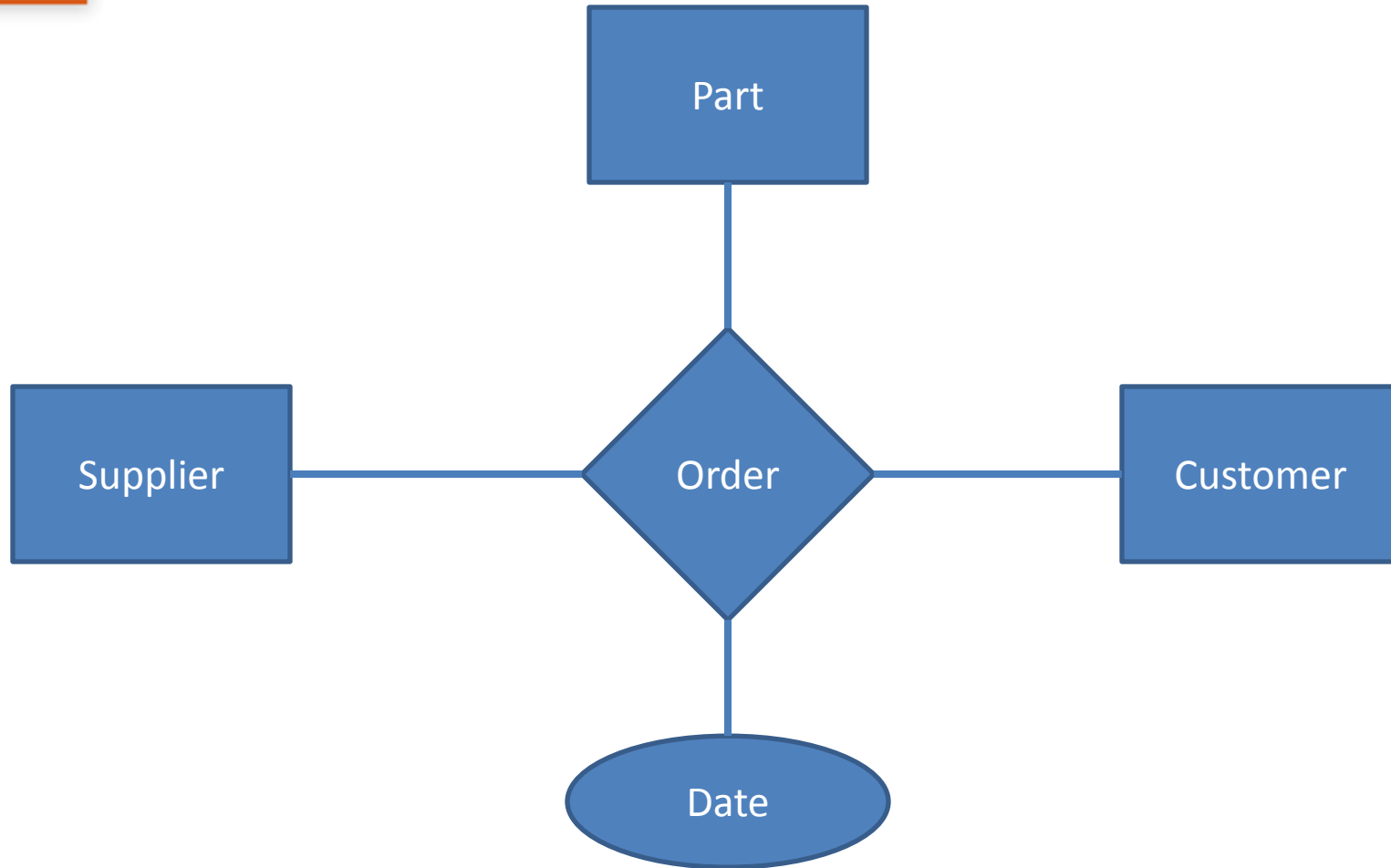


# Advanced Diagraming and Implementation

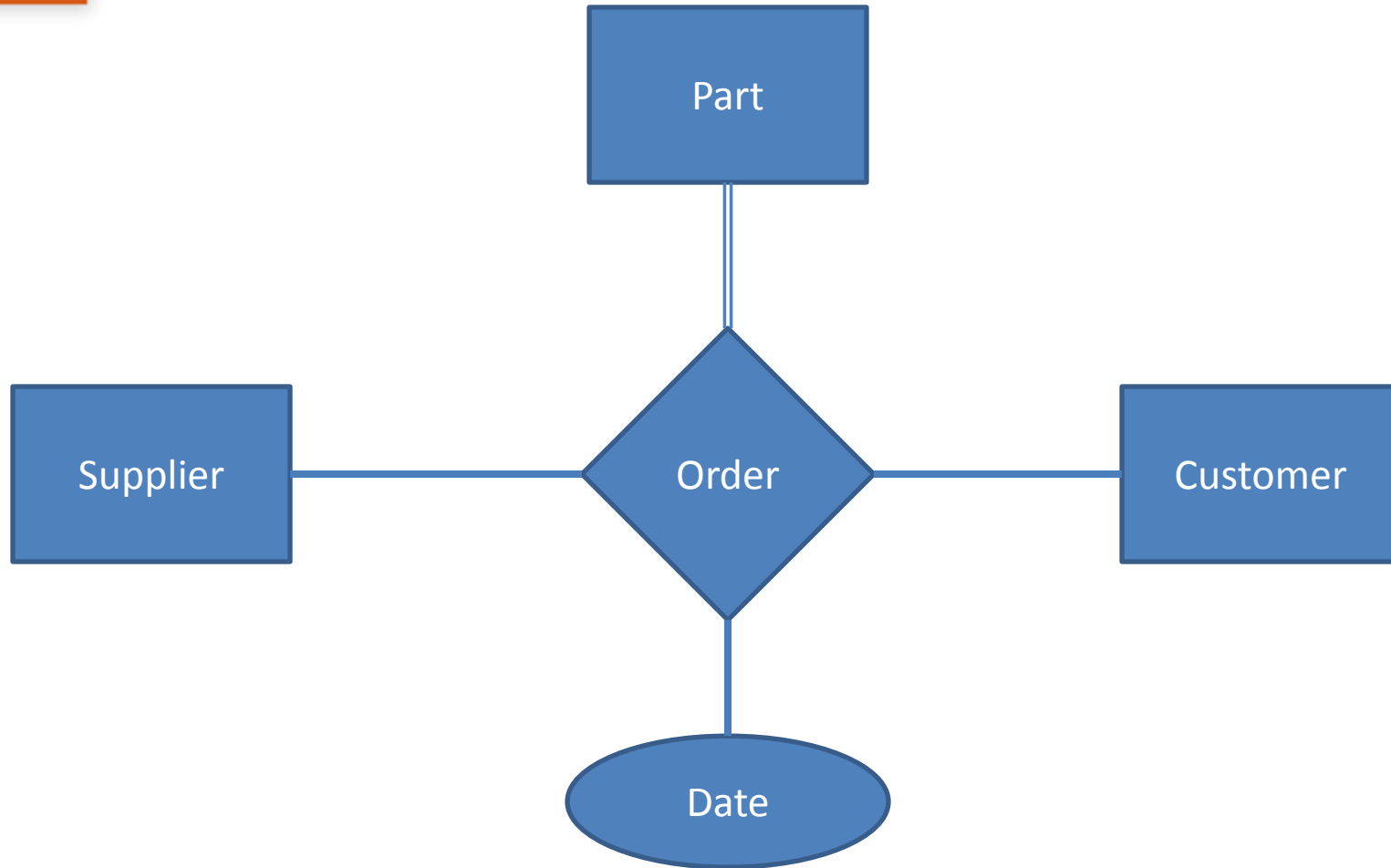
# Ternary Relationship

- This is a relationship between more than 2 things
- All related entities must be in every instance of the relationship
- Cardinality becomes difficult to note, often requires additional explanation

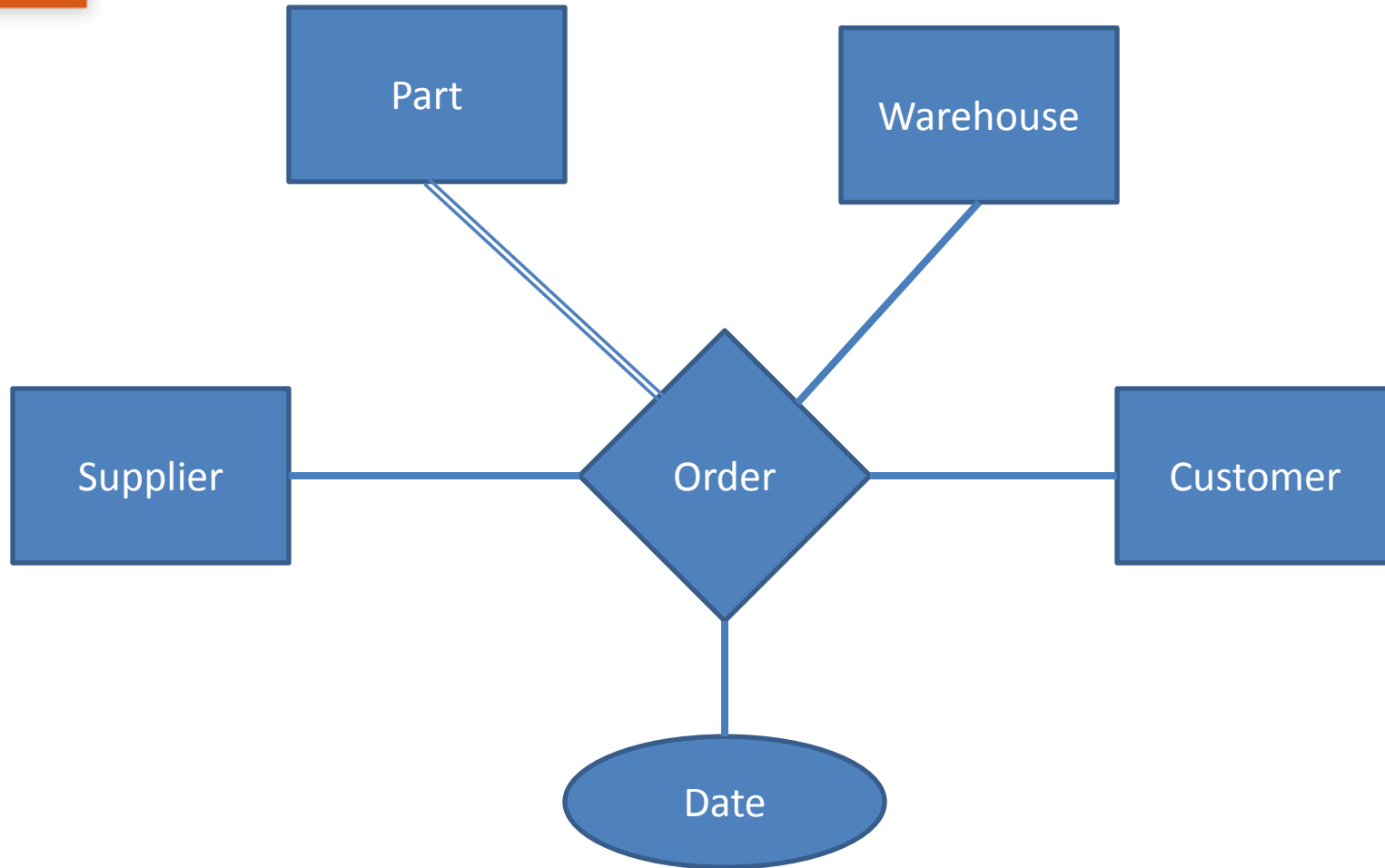
# Ternary Example



# Ternary Example 2



# N-Ary



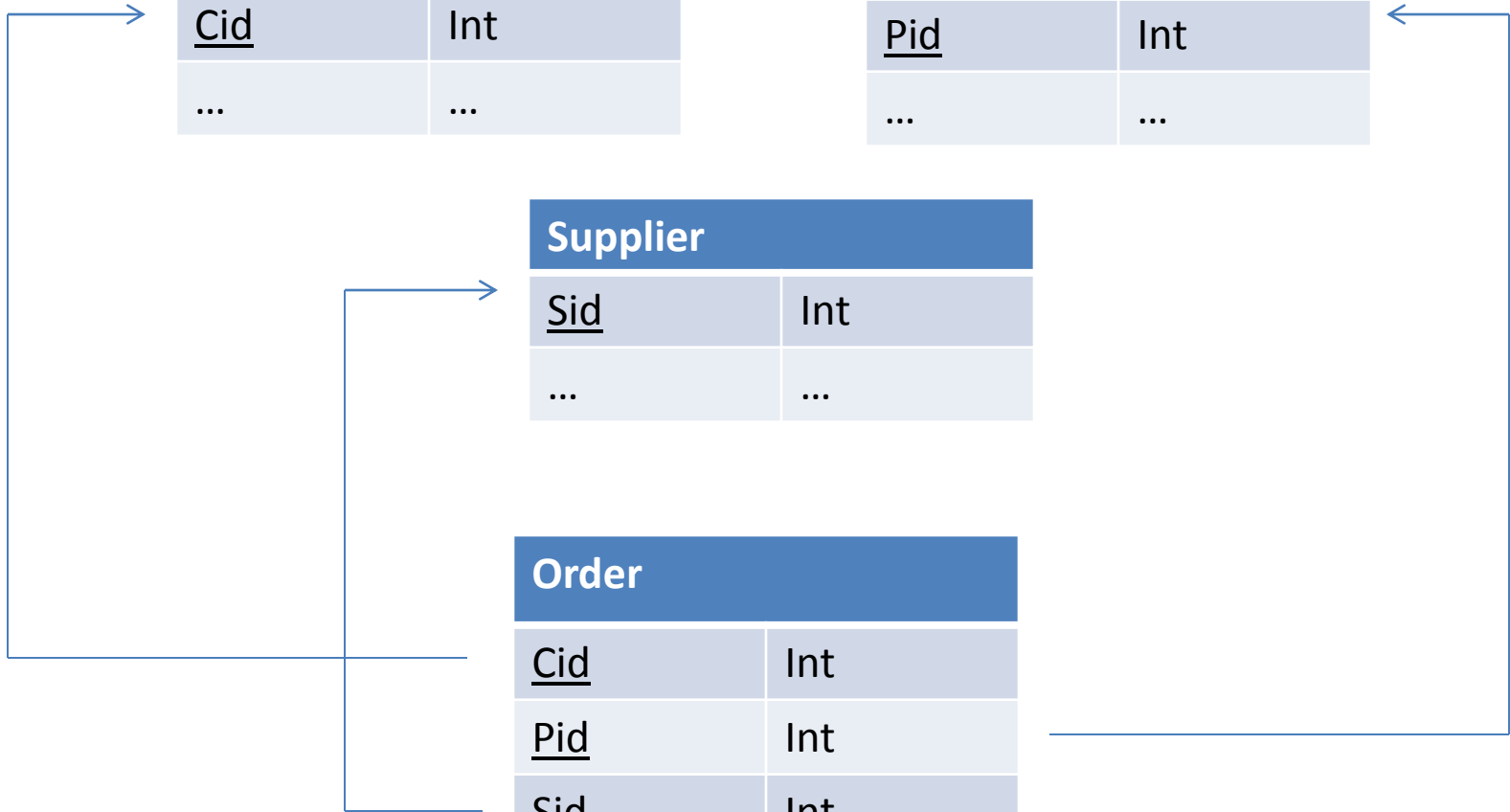
# A Table Representation

Customer	
<u>Cid</u>	Int
...	...

Part	
<u>Pid</u>	Int
...	...

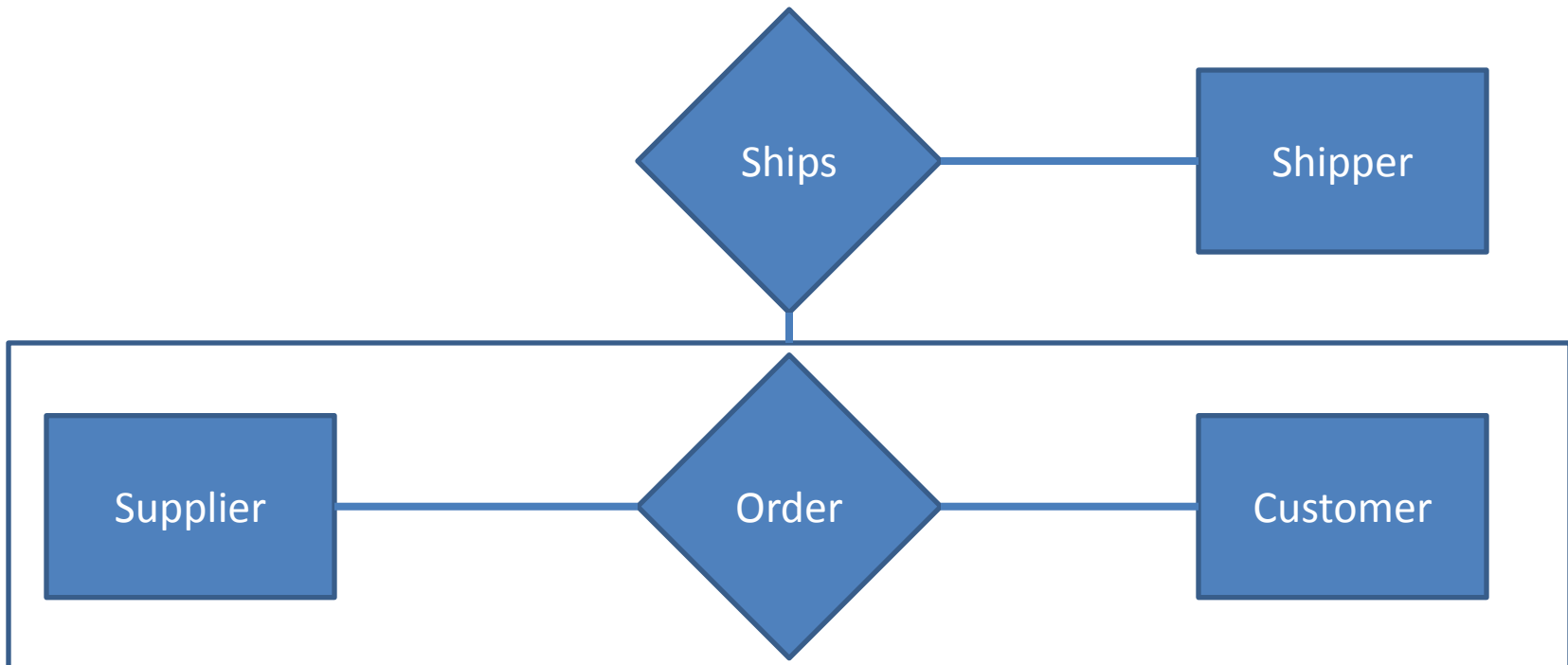
Supplier	
<u>Sid</u>	Int
...	...

Order	
<u>Cid</u>	Int
<u>Pid</u>	Int
<u>Sid</u>	Int
Date	Date



# Aggregate relationships

- Sometimes relationships can be related to other relationships
- This is sometimes noted in ER diagrams as an aggregate relationship



# A Table Representation

Customer	
<u>Cid</u>	Int
...	...

Supplier	
<u>Sid</u>	Int
...	...

Order	
<u>Cid</u>	Int
<u>Sid</u>	Int

Shipper	
<u>Shipid</u>	Int
...	...

OrderShipper	
<u>Shipid</u>	Int
<u>Cid</u>	Int
<u>Sid</u>	Int

