

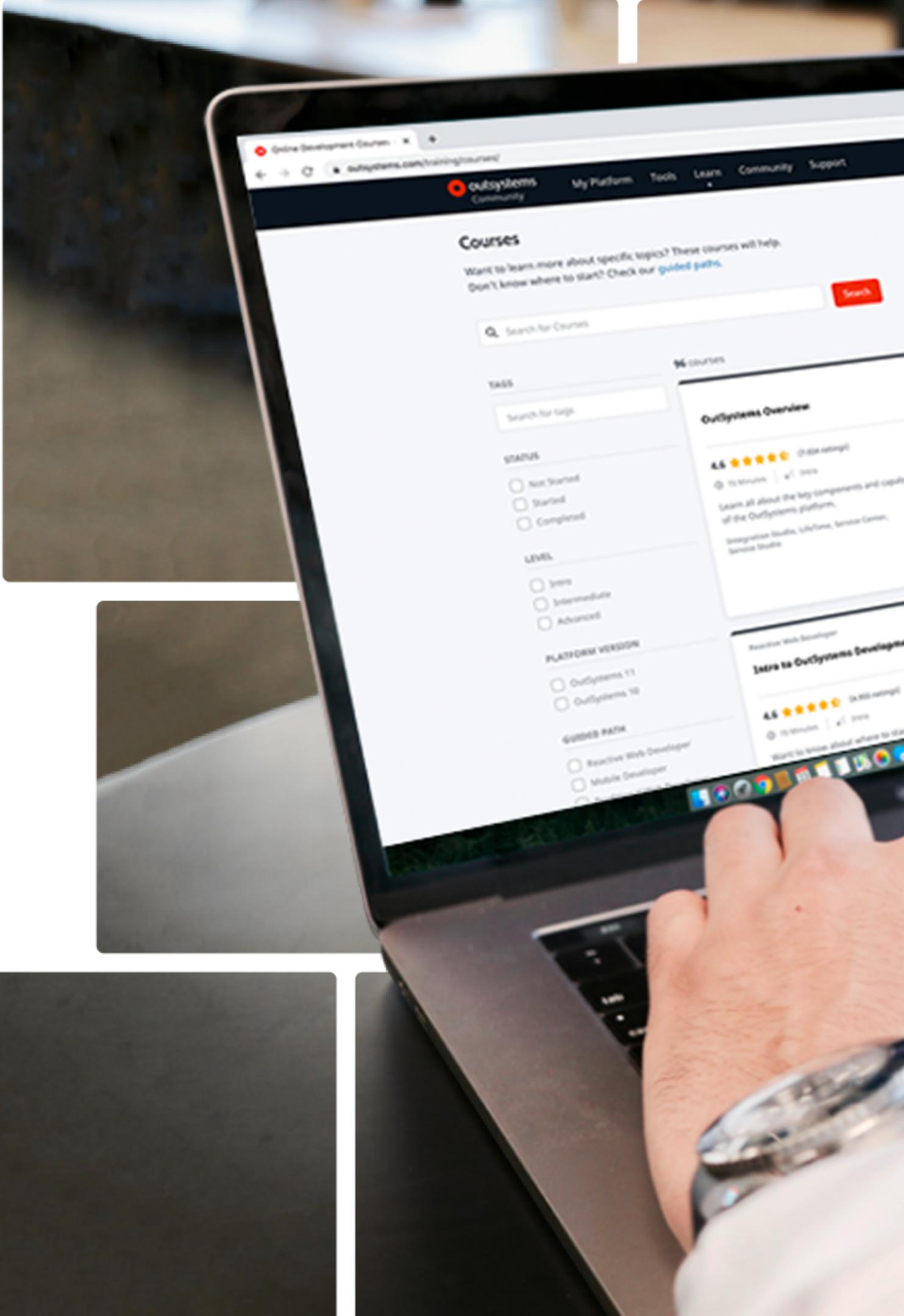


Modeling Data Relationships

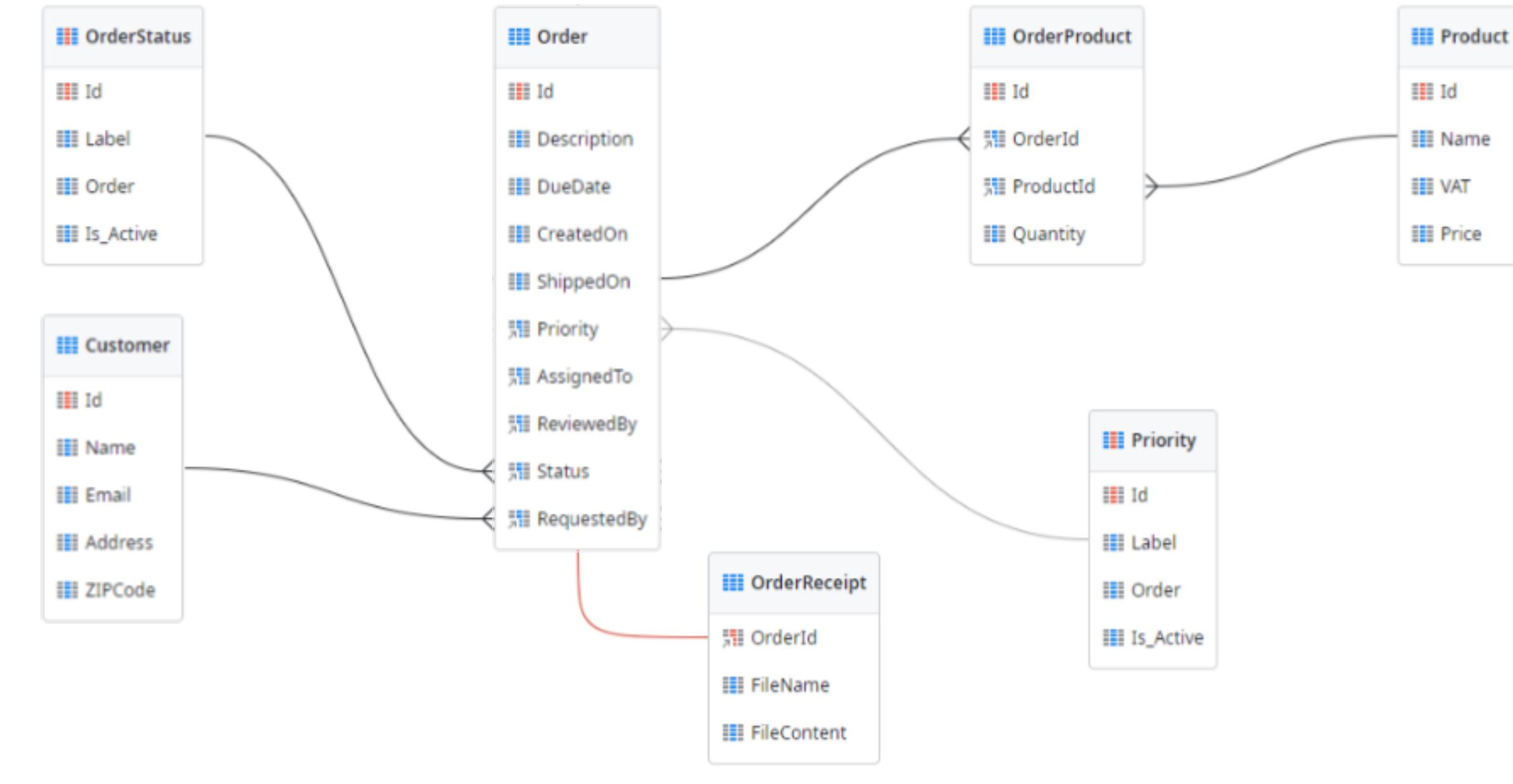
Data Relationships

Entity and Reference Identifiers

Types of Relationships

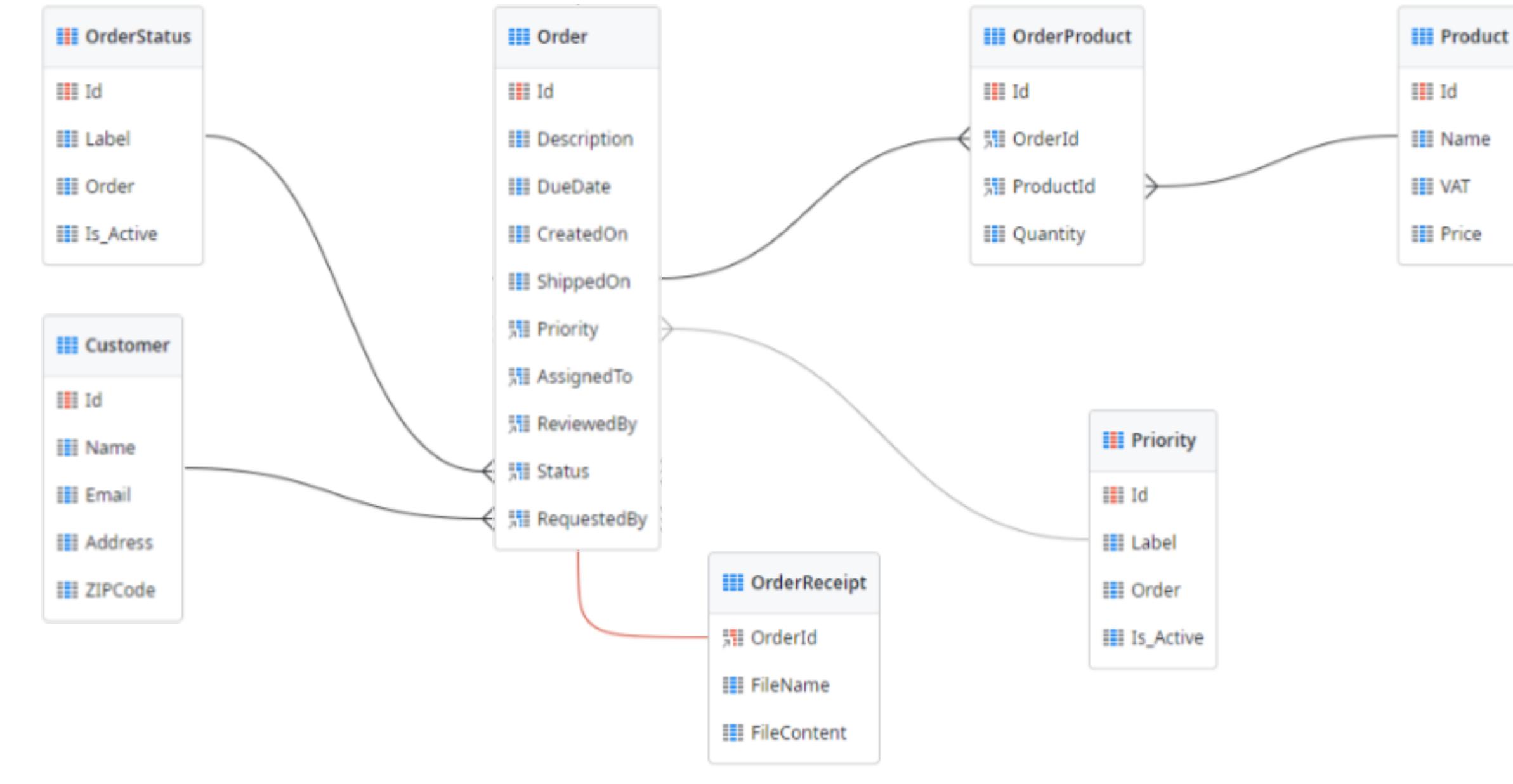


Data Relationships



Data is rarely isolated

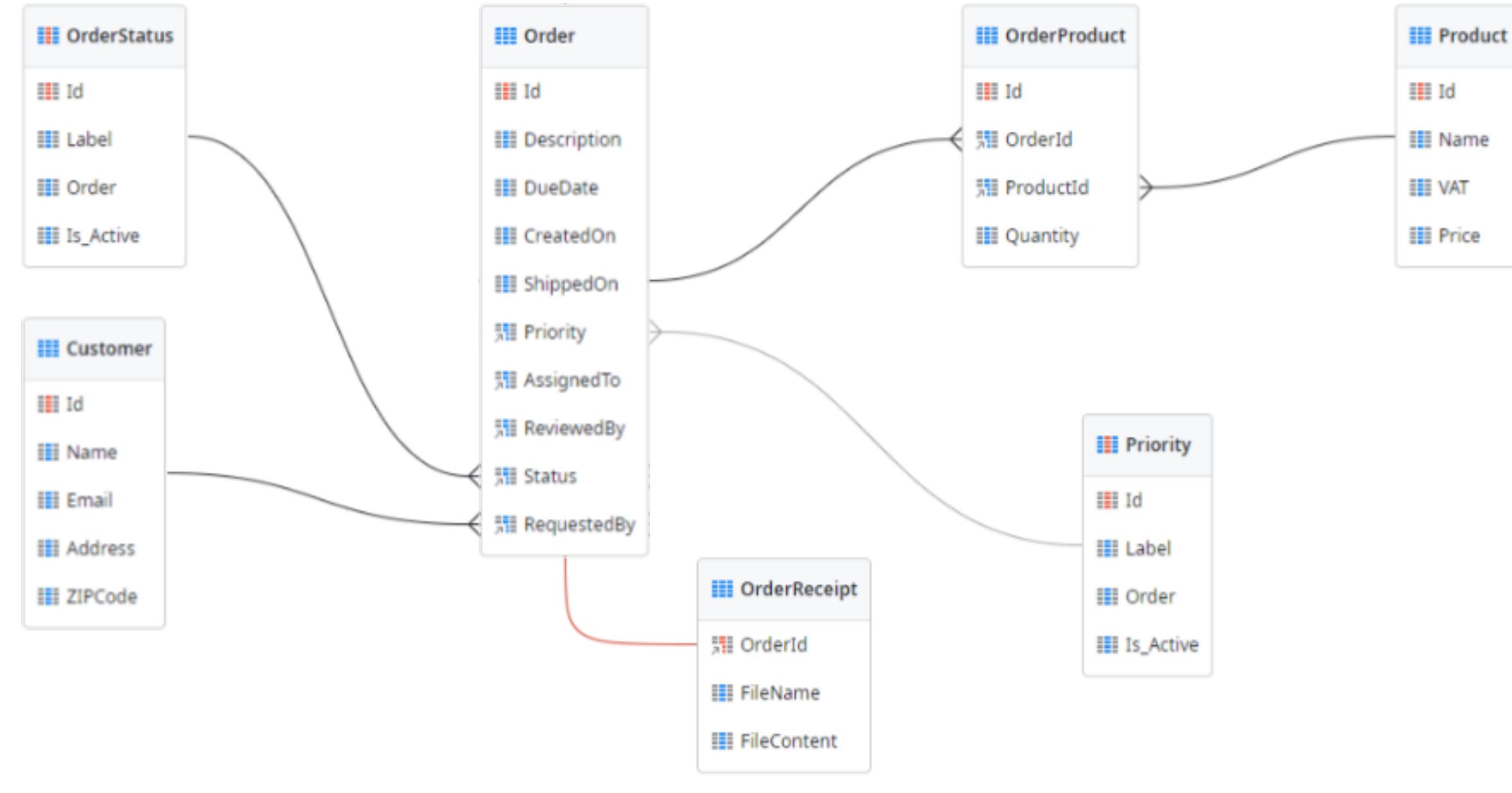
Data Relationships



Data is rarely isolated

A rich data model
establishes the relationships
between data

Data Relationships

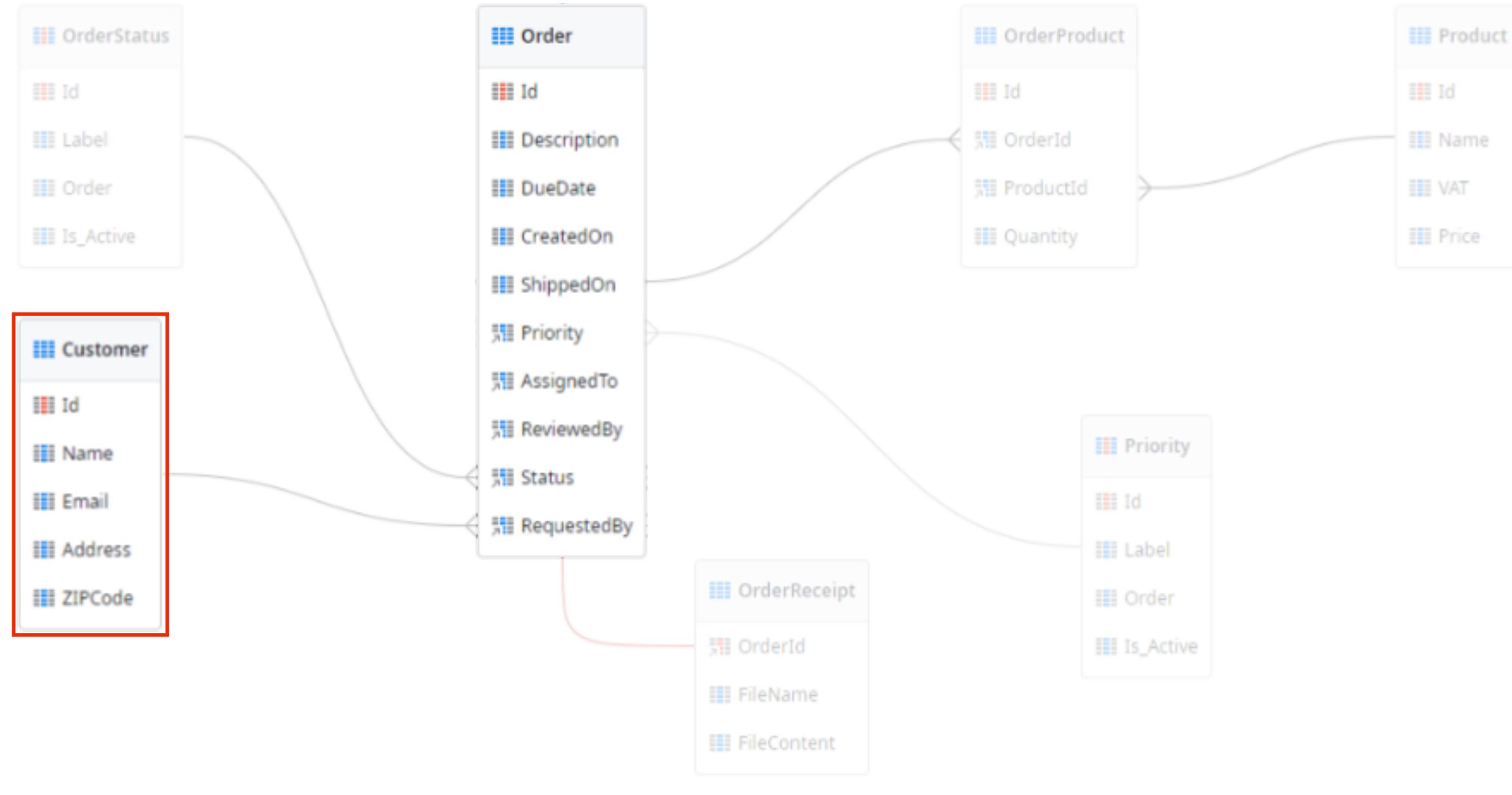


Data is rarely isolated

A rich data model
establishes the relationships
between data

The relationships
can be as important as
the data itself

Data Relationships

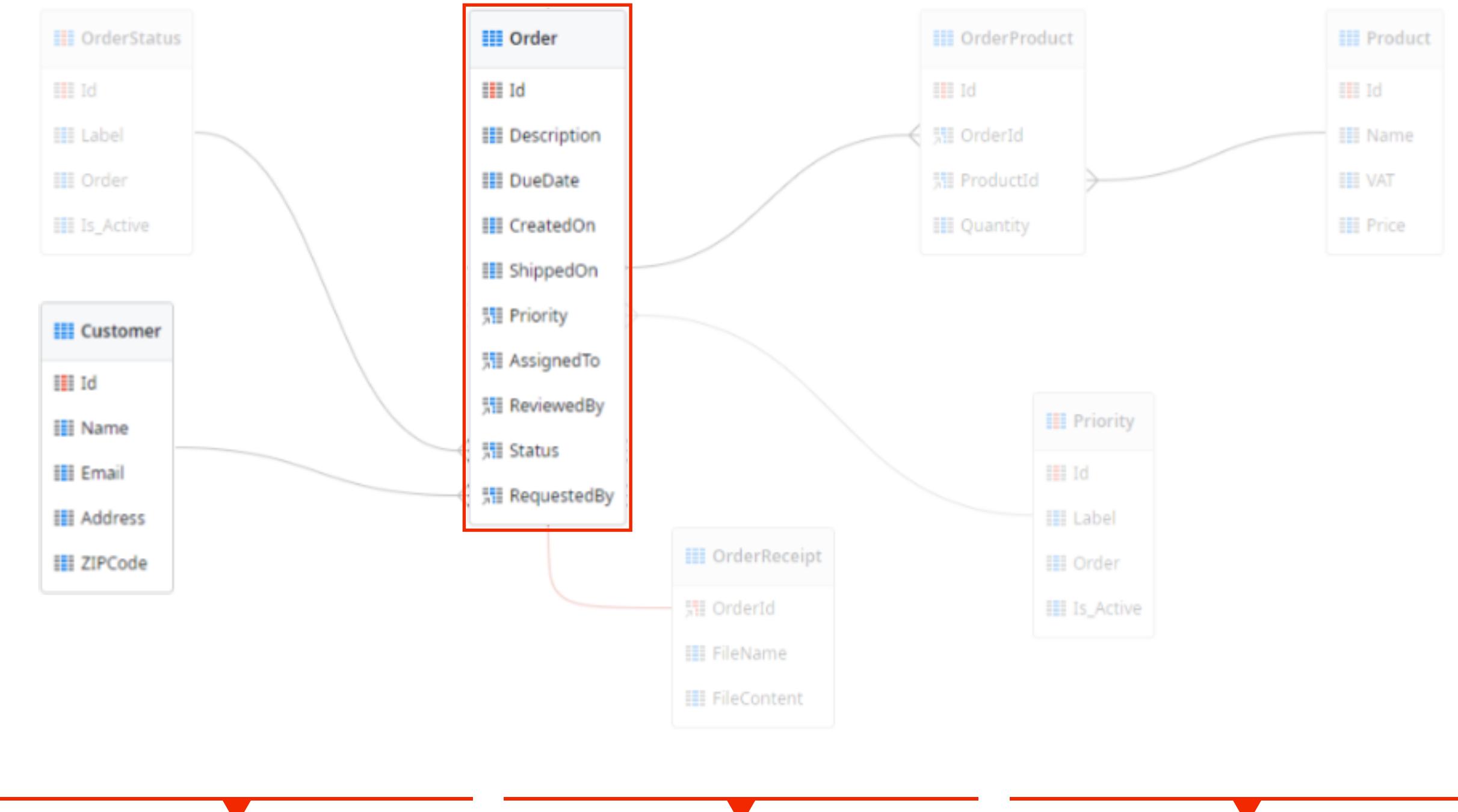


Data is rarely isolated

A rich data model
establishes the relationships
between data

The relationships
can be as important as
the data itself

Data Relationships

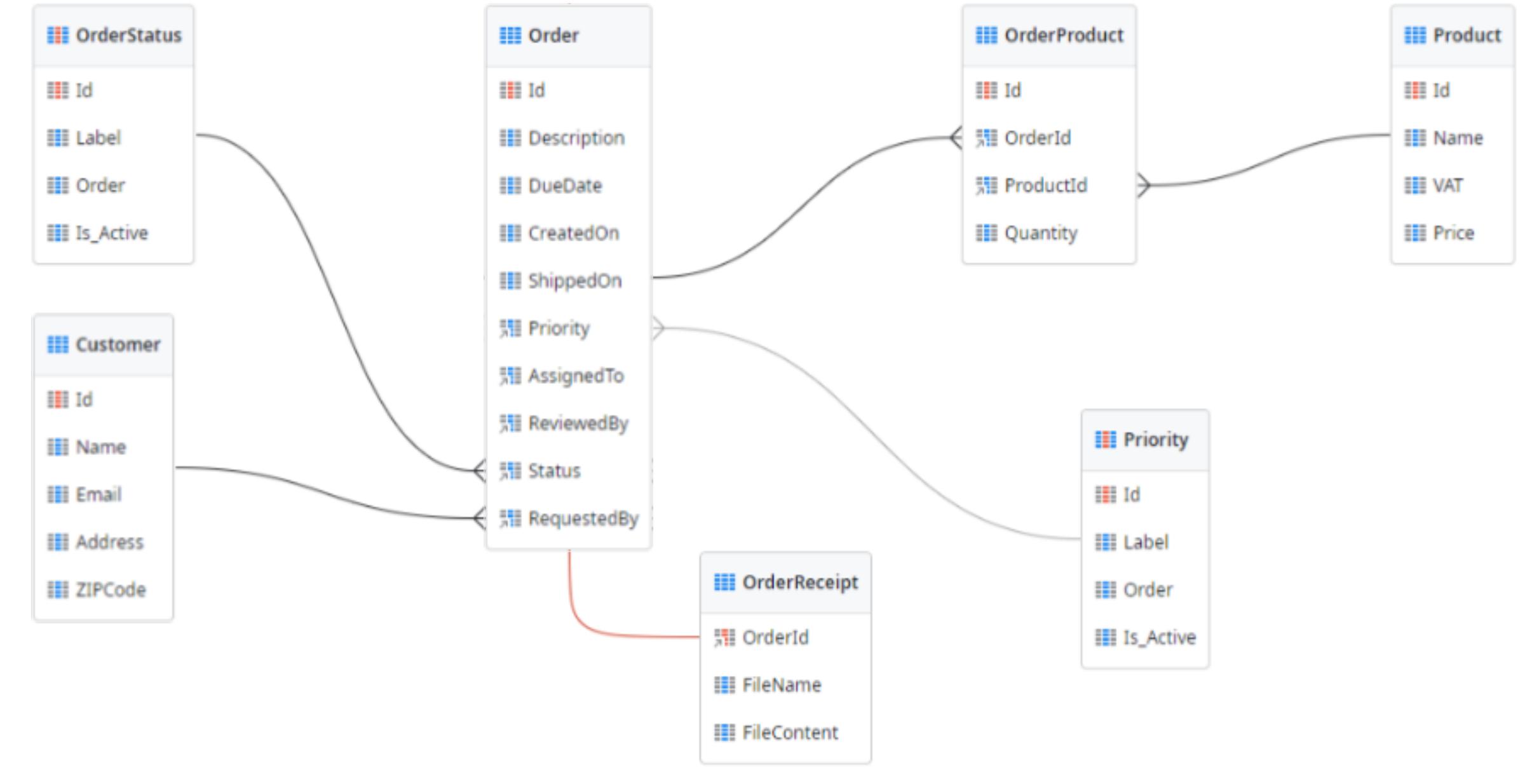


Data is rarely isolated

A rich data model
establishes the relationships
between data

The relationships
can be as important as
the data itself

Data Relationships

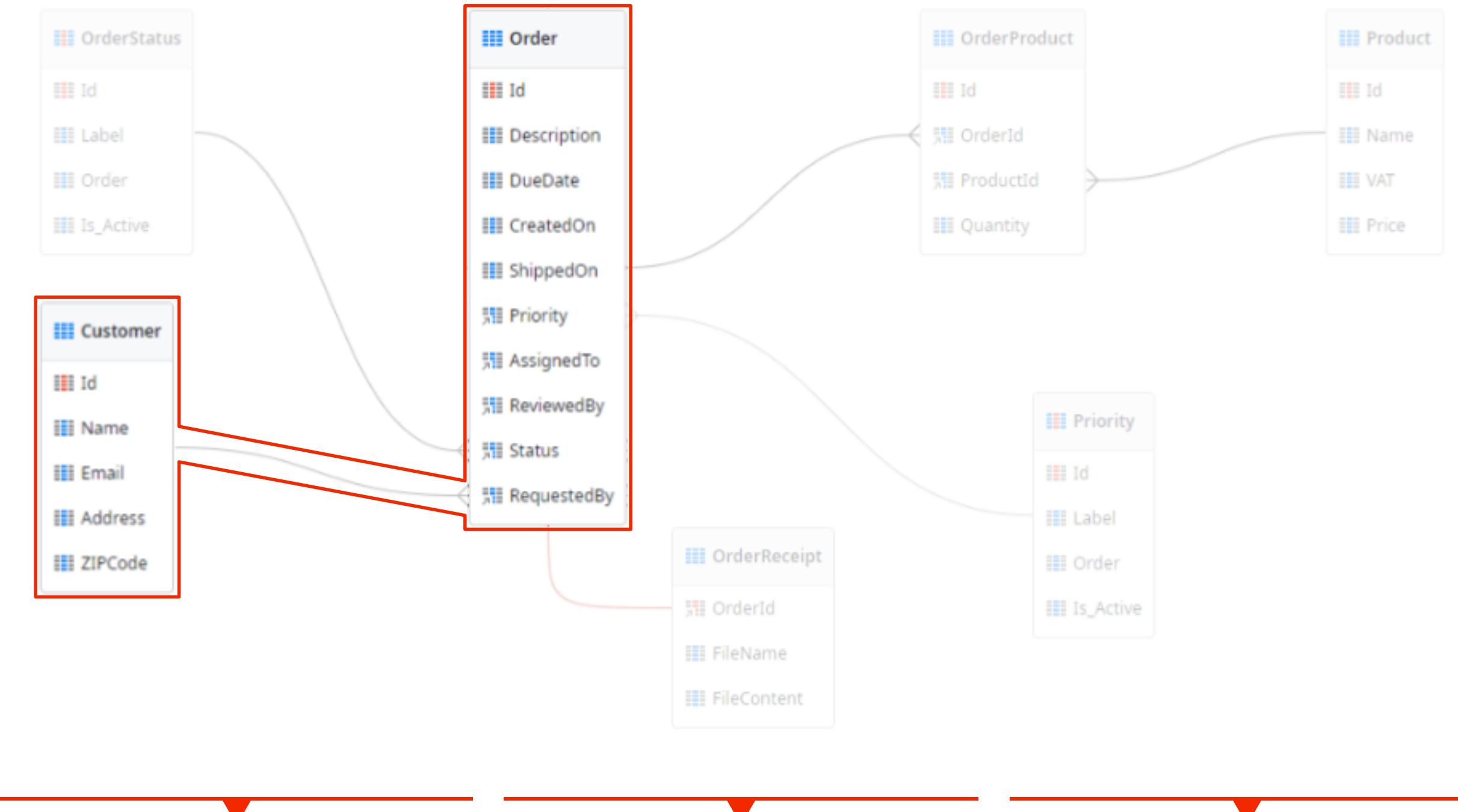


Data is rarely isolated

A rich data model
establishes the relationships
between data

The relationships
can be as important as
the data itself

Data Relationships

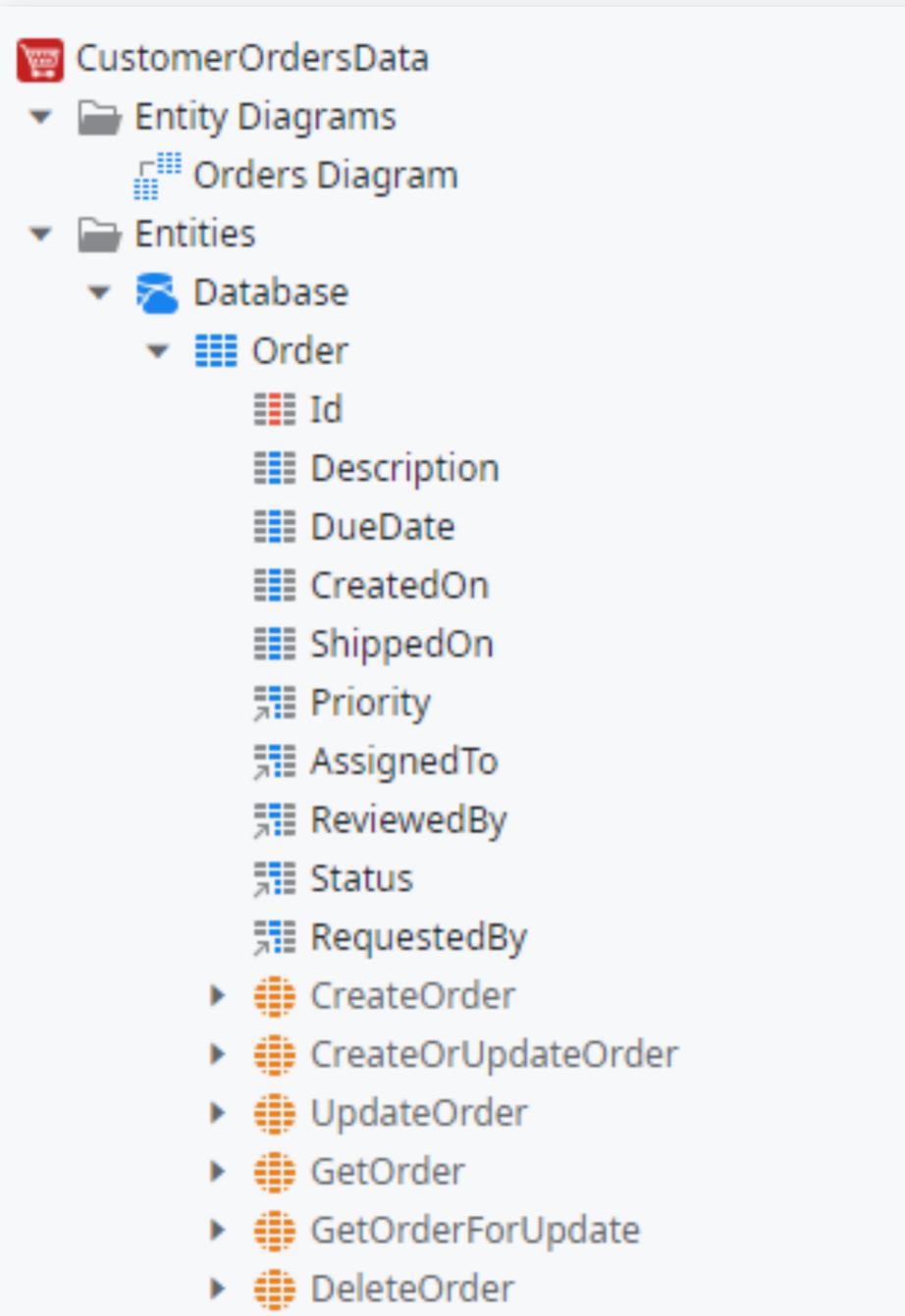


Data is rarely isolated

A rich data model
establishes the relationships
between data

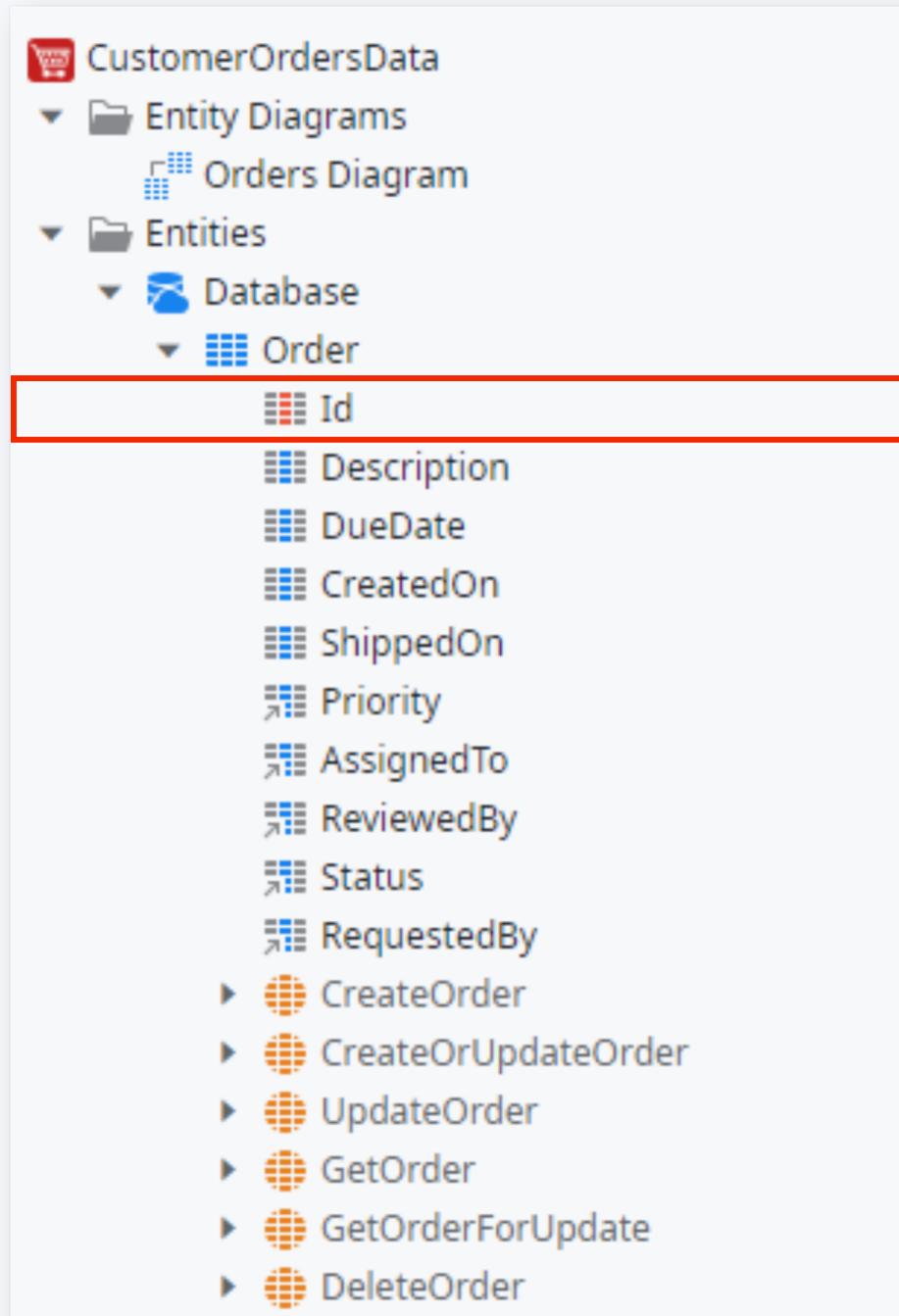
The relationships
can be as important as
the data itself

Entity Identifier



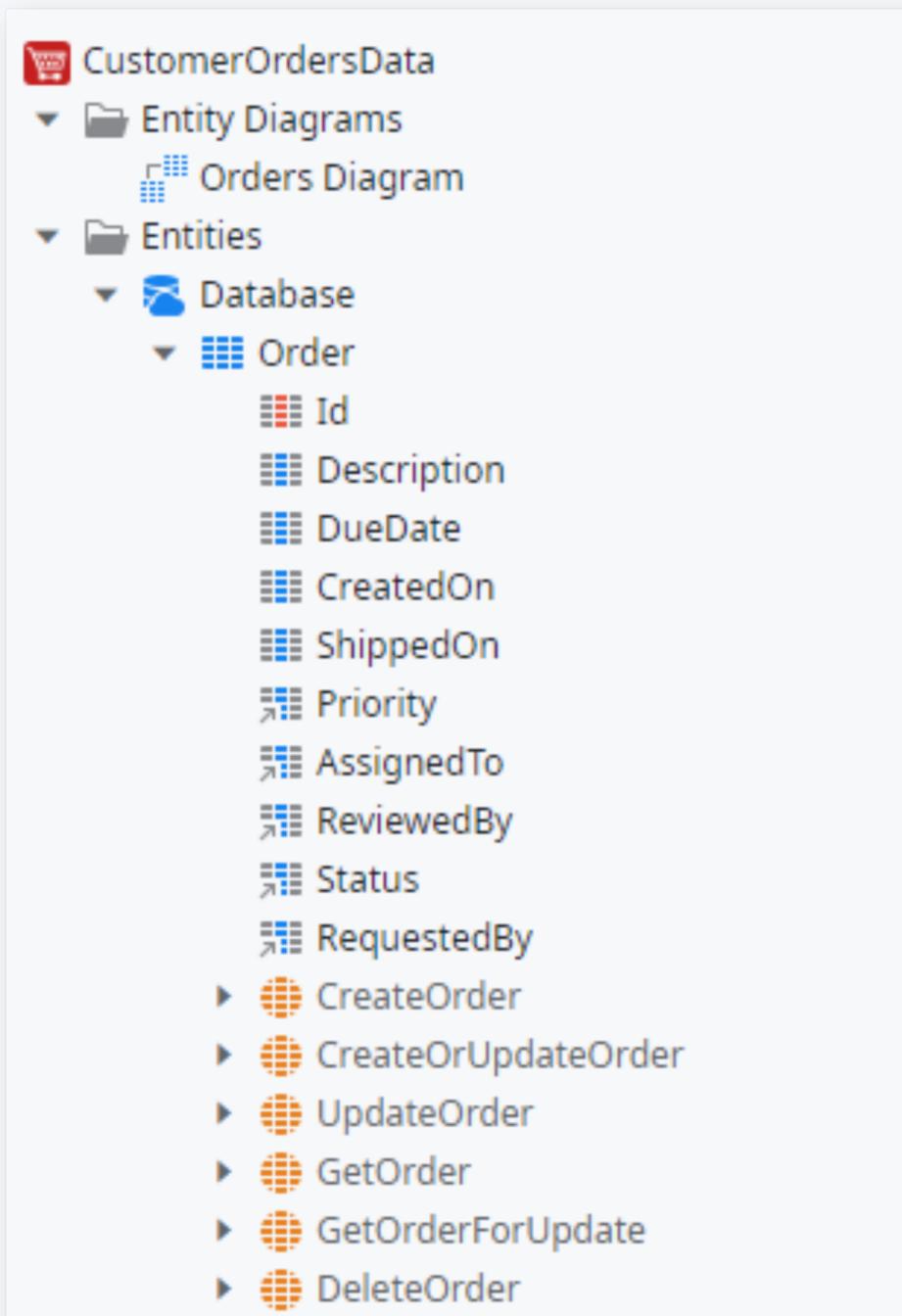
- An Entity **must** have an **Identifier** to allow relationships

Entity Identifier



- An Entity **must** have an **Identifier** to allow relationships
 - **Id** attribute is a long integer and automatically numbered by default
 - Mandatory
 - Possible types
 - Text
 - Integer / Long Integer
 - (Another) Entity Identifier

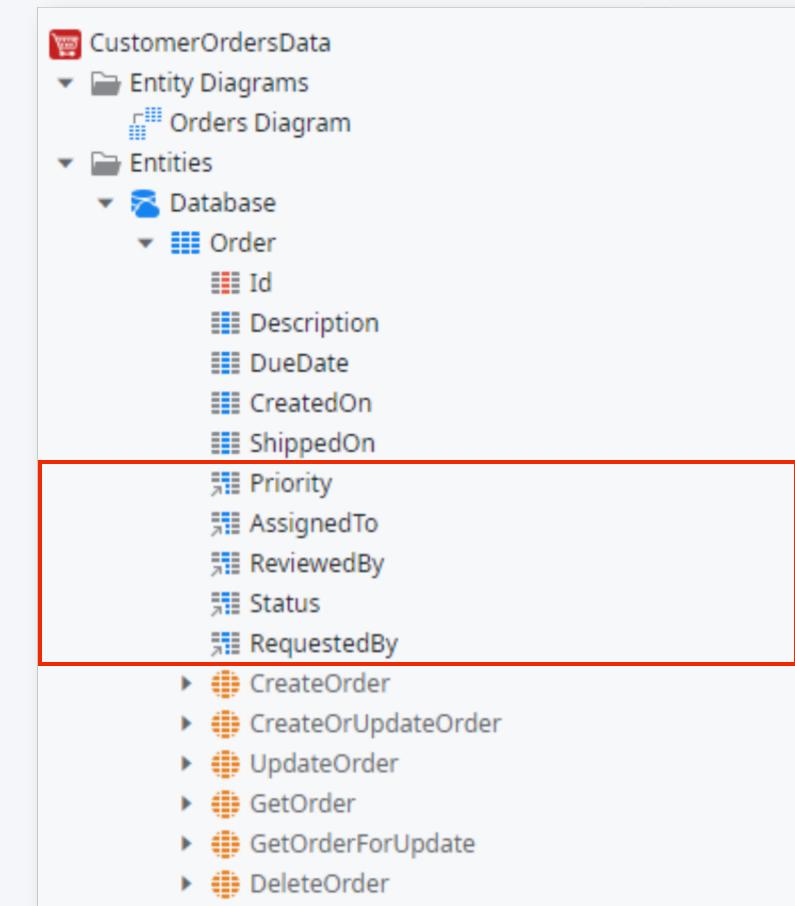
Entity Identifier



- Represents the database table's Primary Key
 - OutSystems supports **simple primary keys**
 - NO** composite keys!

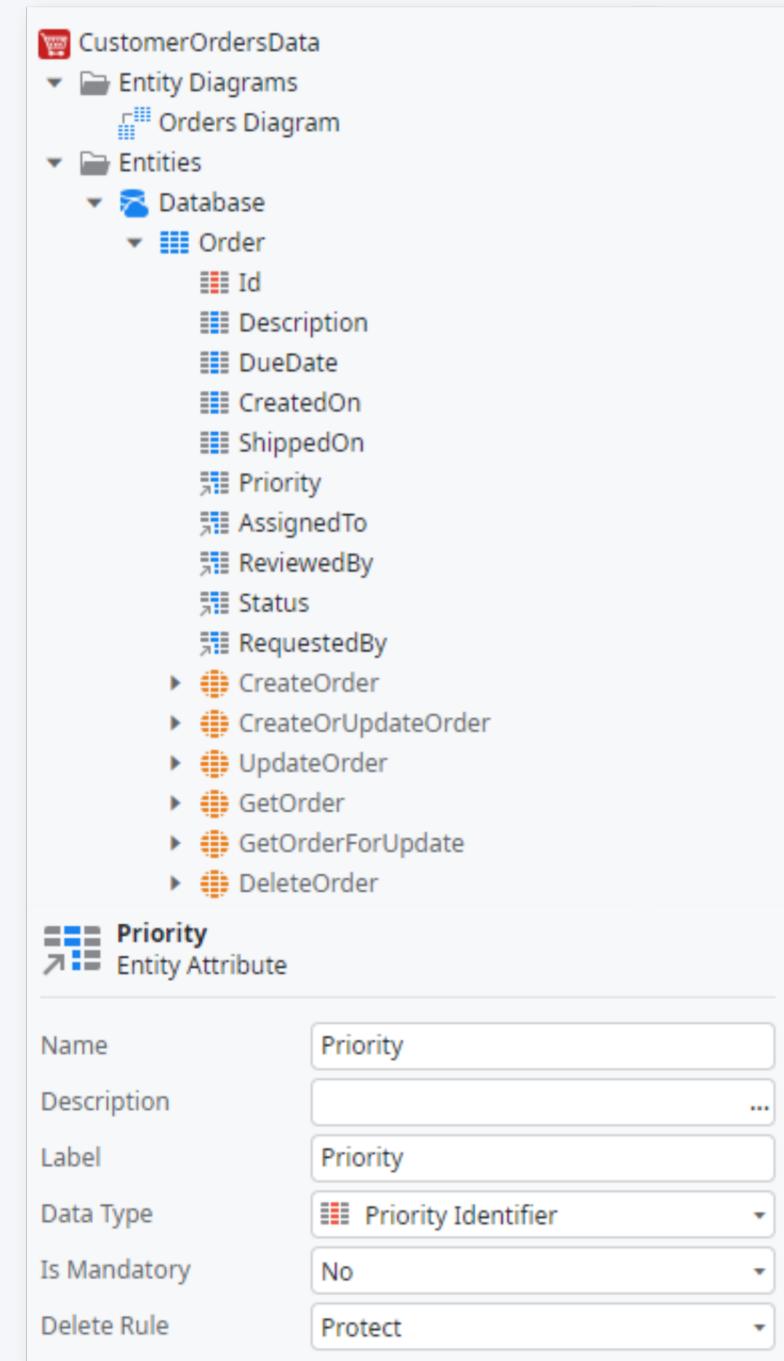
Referencing an Entity

- Entities can be referenced by their identifier



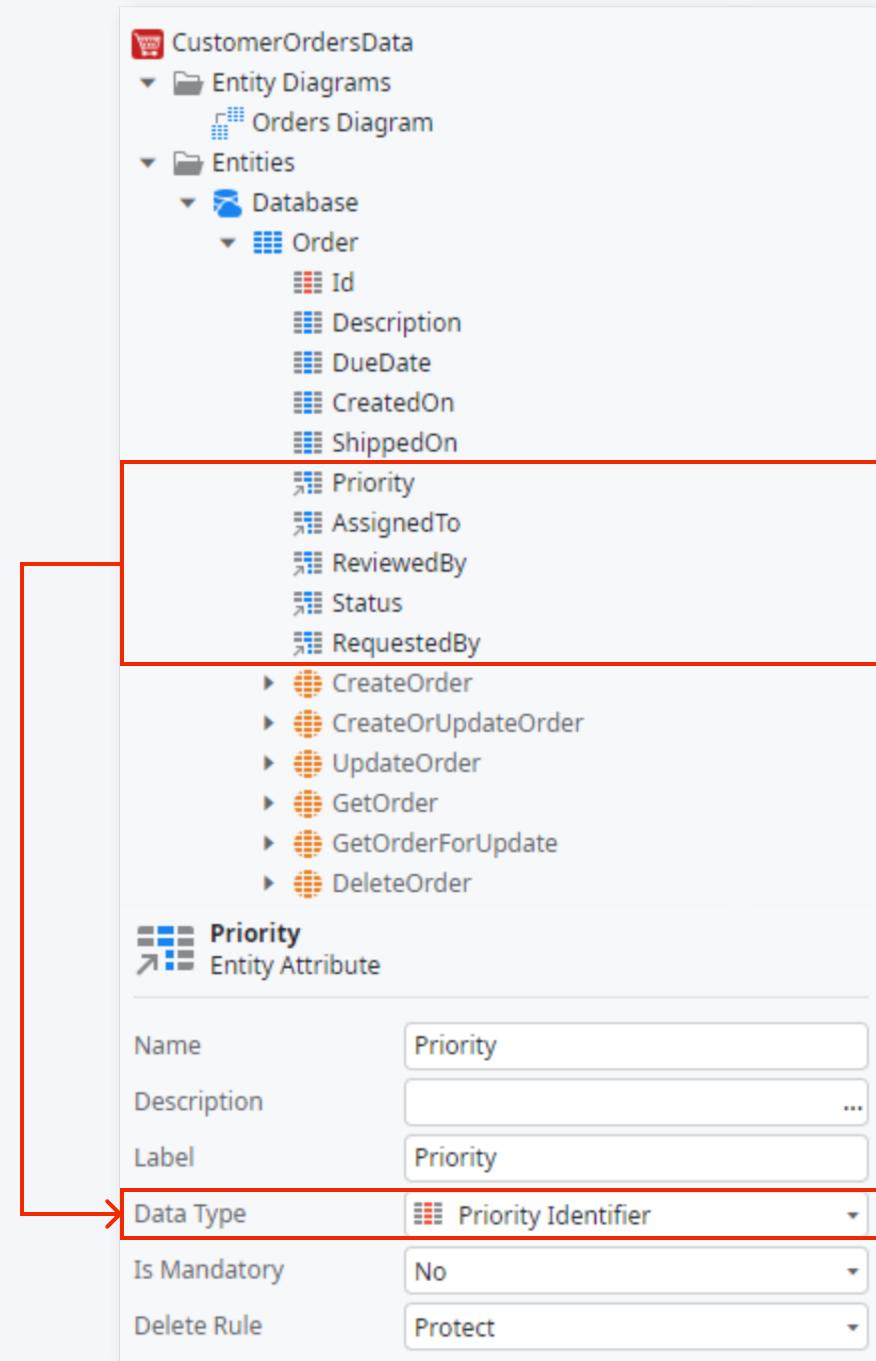
Referencing an Entity

- Entities can be referenced by their identifier
 - Create an attribute of type Entity Identifier
 - Can be mandatory or not
 - Static Entities can only reference other Static Entities



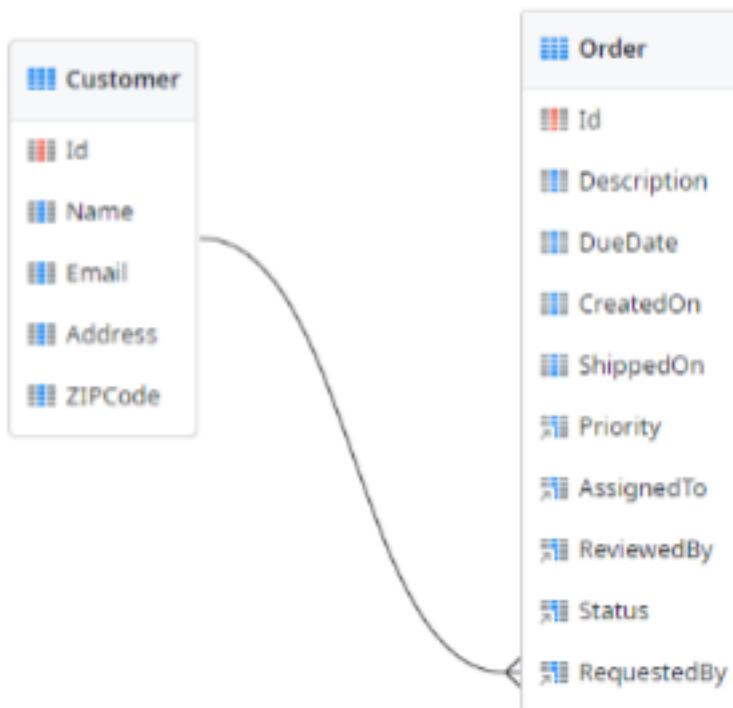
Referencing an Entity

- Entities can be referenced by their identifier
 - Create an attribute of type Entity Identifier
 - Can be mandatory or not
 - Static Entities can only reference other Static Entities
- Represents the database table's Foreign Key
- NullIdentifier() is the default value for reference attributes

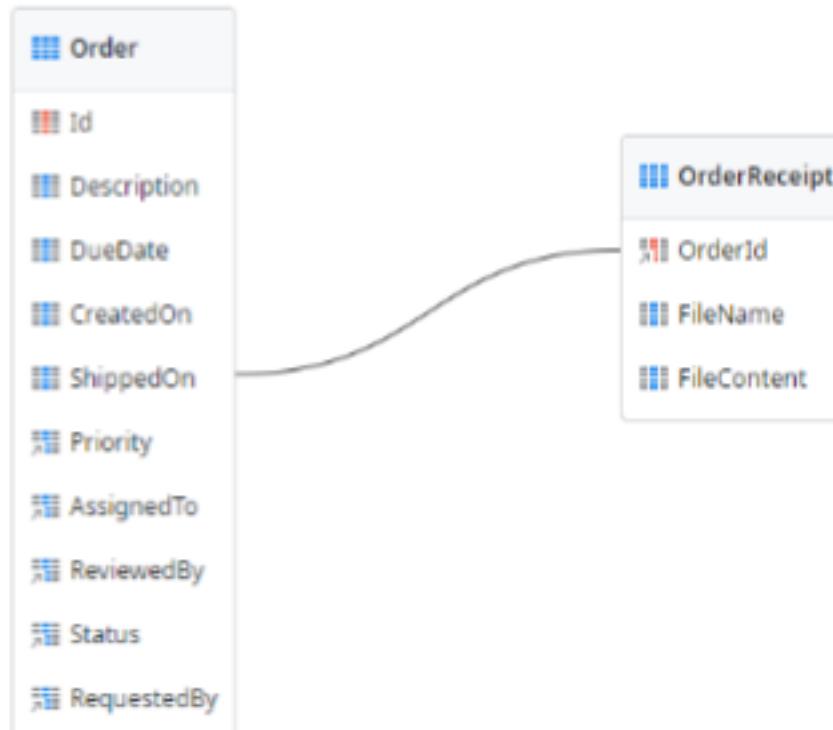


Types of Relationships

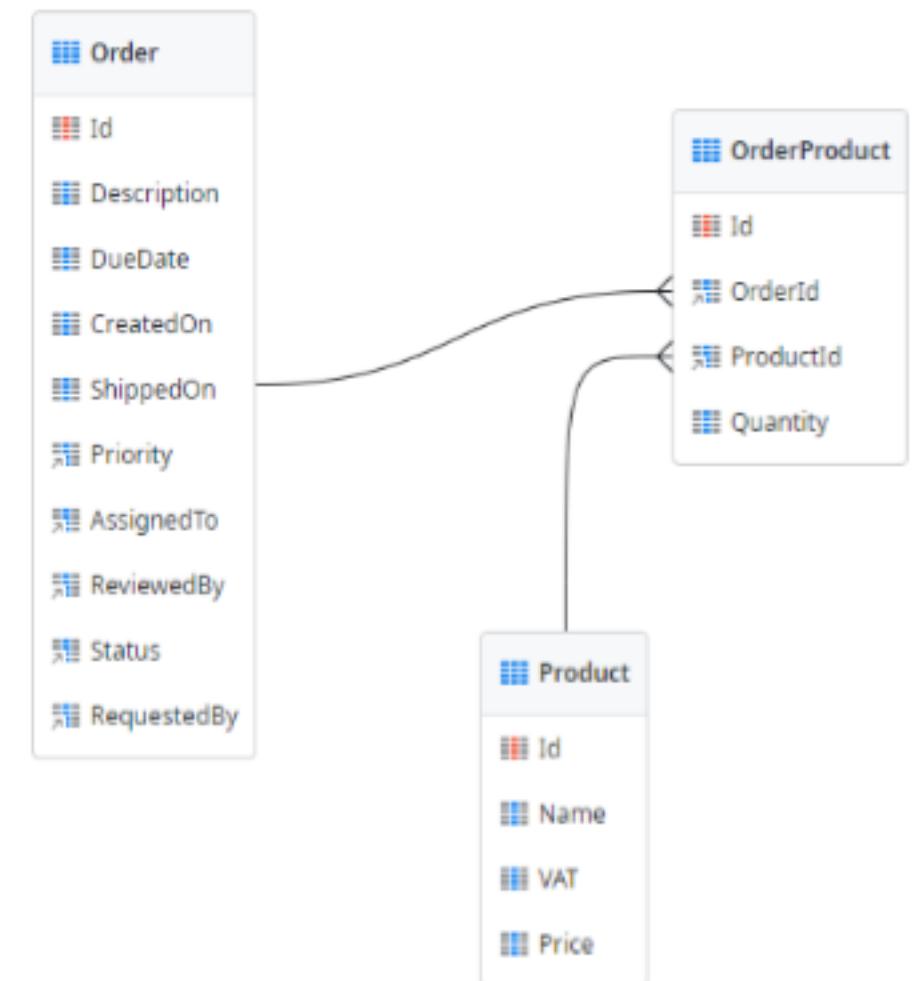
1-to-Many



1-to-1

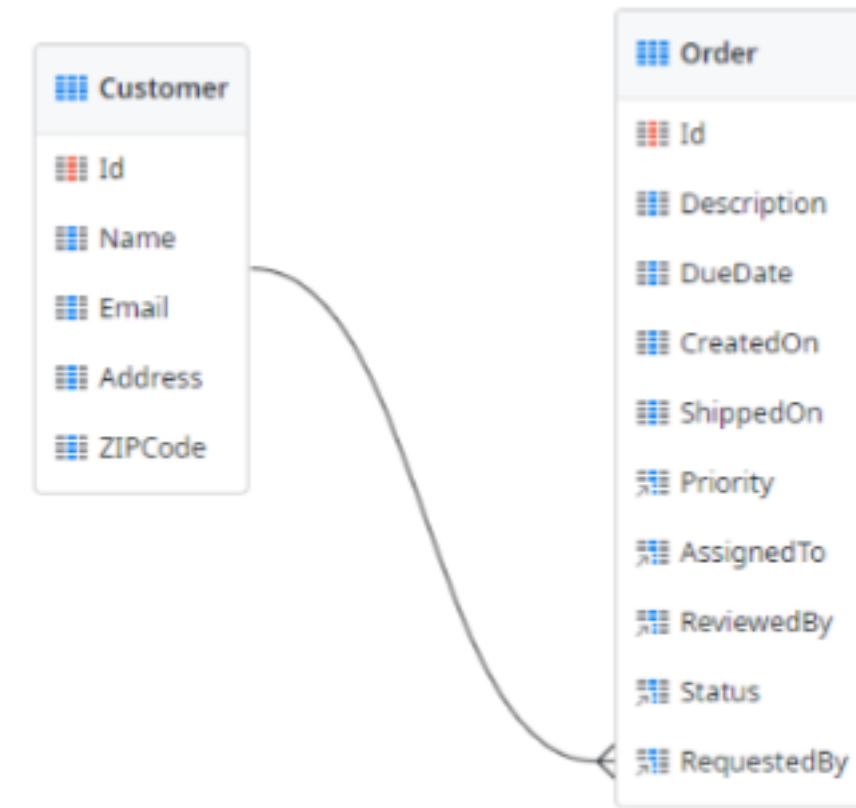


Many-to-Many



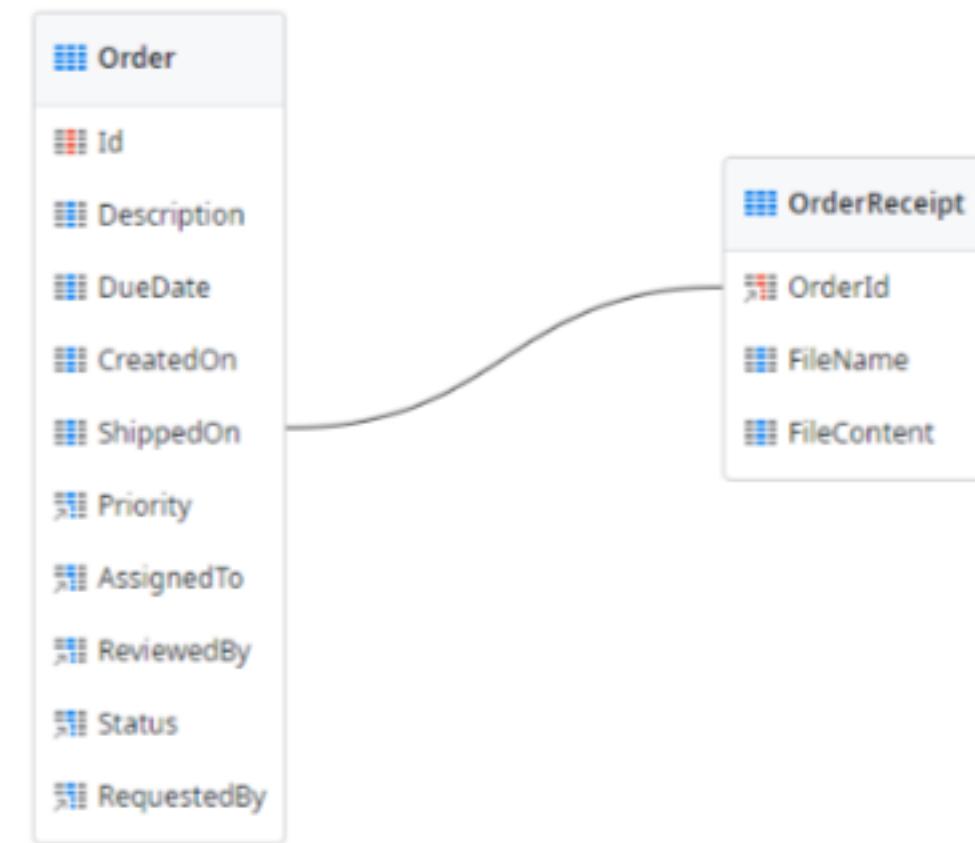
Types of Relationships

1-to-Many



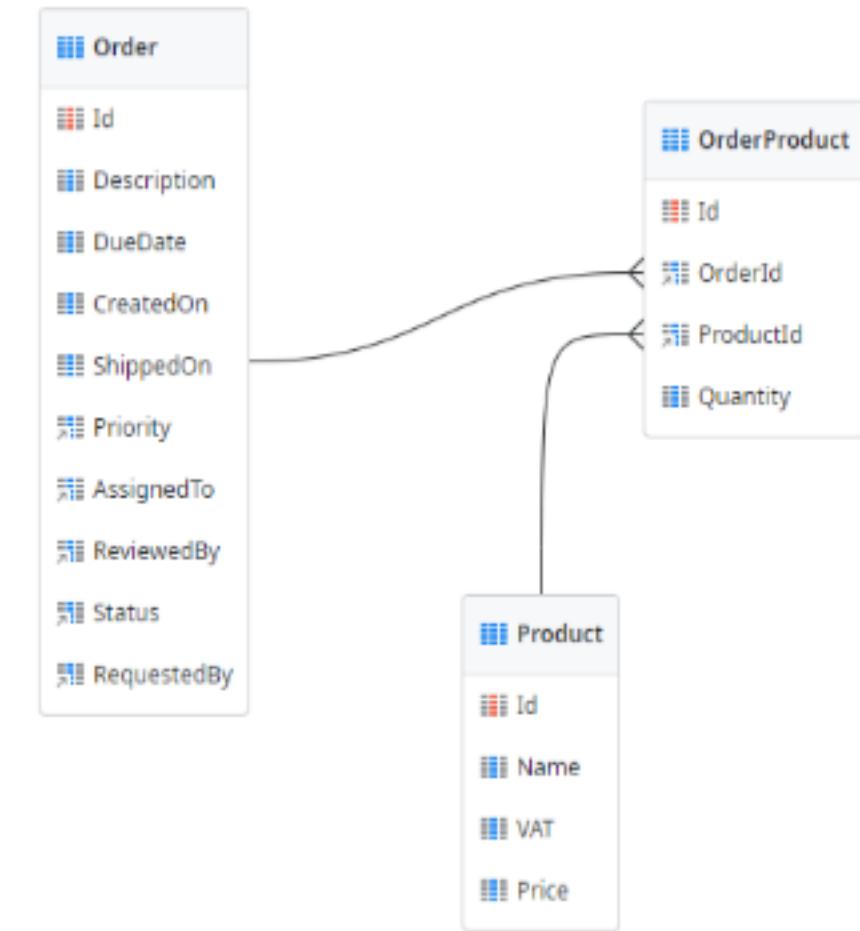
Types of Relationships

1-to-1



Types of Relationships

Many-to-Many



Modeling Data Relationships

