



Here's an example of an Entity-Relationship (ER) diagram for a simple online bookstore

In this example, we have three entities: Customer, Order, and Book. Each entity is represented as a rectangle, and the attributes of each entity are listed inside the rectangles. Primary keys (PK) are indicated with "(PK)", and foreign keys (FK) are indicated with "(FK)".

The relationships between entities are depicted using lines connecting the related entities. Here are the relationships described in this ER diagram:

Each Customer can place multiple Orders (one-to-many relationship). The customer_id in the Order entity serves as a foreign key referencing the primary key customer_id in the Customer entity.

Each Order is associated with a single Customer (many-to-one relationship). The customer_id in the Order entity references the primary key customer_id in the Customer entity.

Each Order can include multiple Books (one-to-many relationship). The order_id in the Book entity serves as a foreign key referencing the primary key order_id in the Order entity.

Each Book can be part of multiple Orders (many-to-one relationship). The order_id in the Book entity references the primary key book_id in the Book entity.

The attributes within each entity represent the specific properties or data associated with that entity. For example, the Customer entity has attributes such as customer_id, name, email, and address. Similarly, the Order entity has attributes like order_id, customer_id, order_date, and total_amount.

Note that this is a simplified example, and in a real-world scenario, you would likely have additional attributes and relationships based on the specific requirements of the system you are modeling.