# Logical Database Design using ERDs

ERD 🡪 Entity Relationship Diagram

A logical model of the requirements

Shows the entities The Objects that need to be recorded in the database and the relationships between those entities.

Developed in a user friendly fashion

Customers

1

Orders

A customer places orders (*use the narrative of the description given by the user but emphasise the degree of the relationship*)

Developed as a number of Steps 🡪 Taking a top down approach to the design

**Step 1**

**Level 1**

Identify the Entities

**Step 2**

Identify the relationships between the entities

Then identify the degree of the relationships

Resolve Many to Many relationships

**Step 3**

Identify the attributes for each entity

Identify the Primary Key

**Level 2**

**Step 4**

Identify the foreign Key (draw a line from PK to FK)

Then identify the degree of the relationships (look at the level 1 diagram)

**Step 5**

Label the relationships (use the user’s word to describe the relationships)

**Customers Orders**

**CustomerID**

FirstName

LastName

Address1

Address 2

Address 3

**OrderID**

OrderDate

DeliveryDate

CustomerID

1 A customer places orders

1