

# **Activity 8**

## **UD2**

**David Nagy György**

1r DAM BD

Angela Maria Solarte Bolaños

## ÍNDICE

<b>Objective.....</b>	<b>3</b>
<b>Description.....</b>	<b>3</b>
<b>Working Table.....</b>	<b>3</b>
<b>Submission.....</b>	<b>4</b>

## Objective

Understand the difference between strong and weak entities, identifying cases in which one entity depends on another to exist, and representing their relationship through a mini Entity–Relationship Diagram (ERD) with the appropriate cardinalities.

## Description

- Identify which is the strong entity and which is the weak entity (if applicable).
- Justify why one depends on the other.
- Indicate whether the weak entity is weak by identification, by existence, or by both reasons.
- Establish the minimum and maximum cardinalities between the entities (from strong to weak and vice versa).
- Represent the mini ERD for each case using the appropriate symbols.

### [Diagrama](#)

## Working Table

Nº	Related Entities	Strong Entity	Weak Entity	Justification (Why does it depend?)	Type of Weakness (Identification / Existence / Both)	Cardinality (Strong → Weak / Weak → Strong)	Mini ERD (Sketch)
1	Book – Copy	Book	Copy	The copy of the book cannot be without the book.	Is weakness to Both	(1.N) 1:N (0.N)	
2	Invoice – Invoice Line	Invoice	Invoice Line	Without the invoice there can be no invoice line.	Is weakness to Both	(1.N) 1:N (1:N)	
3	Student – Enrollment	Student	Enrollment	Without the Student, you can't enrollment	Is weakness to Both	(1.1) 1:1 (1.1)	
4	Company – Branch	Company	Branch	The branch without Company	Is weakness to Both	(1.1) 1:N (0.N)	

				doesn't exist.			
5	Store – Product	Store Product		If there are no products, there can be a store, if there is no store, there can be products.	Doesn't have weakness	(1.N) 1:N (0.N)	
6	Order – Order Detail	Order	Order Detail	Without the Order you can't have an Order Detail.	Is weakness to Both	(1.N) N:M (1.N)	
7	Project – Task	Project	Task	There must be tasks for the Project to be completed.	Is weakness to Both	(1.1) 1:N (0:N)	
8	Library - Book	Book	Library	Without Books there isn't a library.	Is weakness to Existence	(1.1) 1:N (0.N)	

### Submission

Export your completed document as a **PDF** and submit it via **Google Classroom**.