

Activity 8

UD2

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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.

Diagrams

Working Table

| N o | Related Entities | Stro ng Entit y | We ak Ent ity | Justification (Why does it depend?) | Type of Weakness (Identification / Existence / Both) | Cardinality (Strong → Weak / Weak → Strong) | Mini ERD (Sketc h) |
|--------|------------------------|--------------------------|------------------------|---|--|---|-----------------------------|
| 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**.