📄 **03-cardinality-relationships.md**

Cardinality of Relationships

Definition

Cardinality defines how many instances of one entity are related to instances of another entity.

Types of Cardinality

One-to-One (1:1)

One record in table A relates to one record in table B.

Example:

- Person → Passport

One-to-Many (1:N)

One record in table A relates to many records in table B.

Example:

- Customer → Orders

Many-to-Many (M:N)

Many records in table A relate to many records in table B.

Example:

- Students ↔ Courses

Note: Requires a **junction table**.

Key Point for Revision

Many-to-many relationships always require a new table.