**Database notes**

A Relationship is an association between two or more entities E.g. Relationship stores between product and warehouse.

Relationship type ... Stores

Relationship occurrence ... Product 1 is stored in Warehouse 3

Relationship identifier ... A composite of identifiers of entities

Three interesting things about relationships

**Relationships have degree:**

one-to-one ( 1 : 1) e.g. Team/Manager

one-to-many (1 : M) e.g. Match/Goal

many-to-many (N:M) e.g. Student/Class

**Relationships have optionality**

Obligatory Every entity instance participates in the relationship

Non-obligatory Entity instance may exist independently of relationship

Non-obligatory on Employee Vehicle/Employee Non-obligatory on either Student/Class

3 things you need to know

1. Name
2. Degree
3. Optionality

An entity is an object that can be distinguished