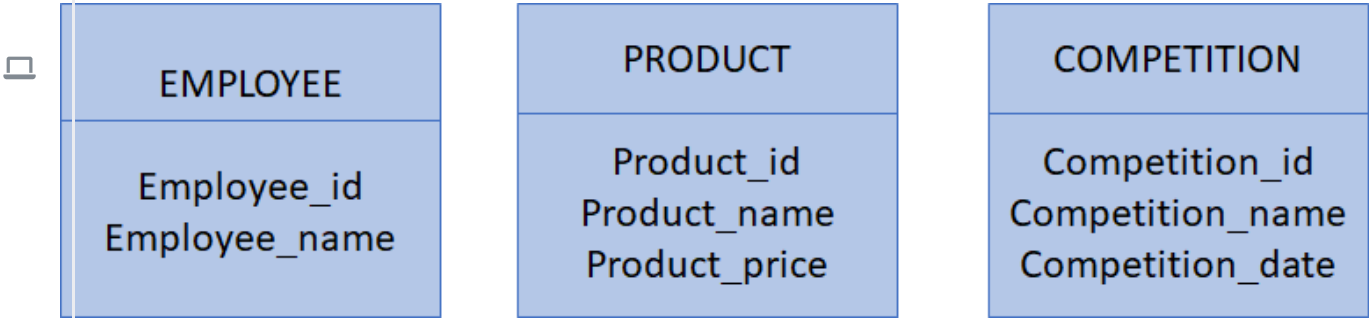# Entity / Relationship model

- The Entity-relationship model is a type of conceptual diagram widely used for databases data, including relational databases.

- It is a tool for describing the structure of a database by highlighting many concepts:

    - Entity

    - Relation

    - Cardinalities

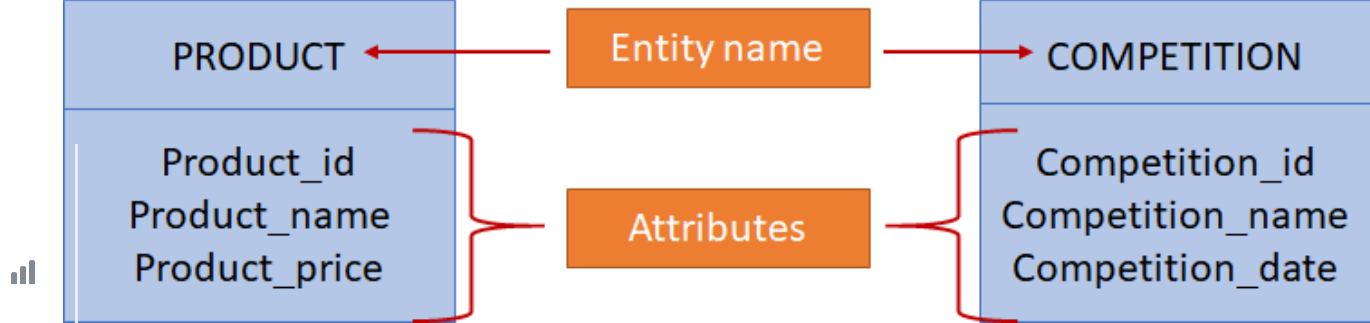   - Attributes / Identifier

    - etc.

Entity

- An entity is an abstract representation of a real world object.

- An entity represents a physical or logical object.

- The object which will be represented with an entity must have different characteristics.

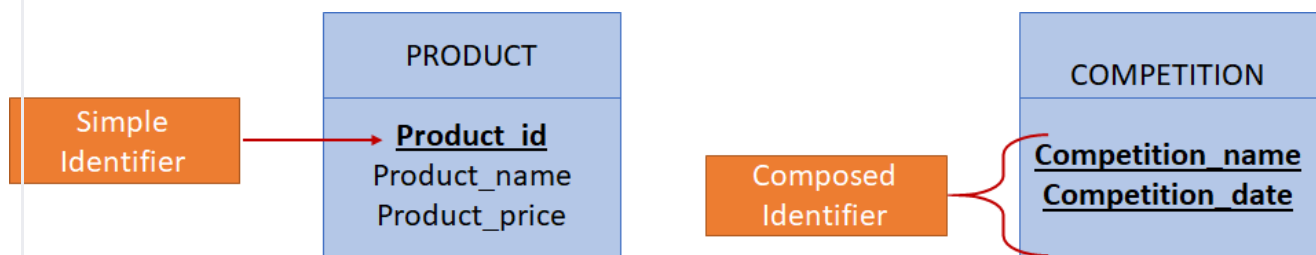| EMPLOYEE	PRODUCT	COMPETITION
Employee_id Employee_name	Product_id Product_name Product_price	Competition_id Competition_name Competition_date

Attributes

- Each entity is described based on a list of properties which characterize the entity.

- At this level, the attributes are defined with their names (designation). It is not necessary to identify types of the different attributes

Entity Identifier

- An entity identifier is a property (attribute) which can qualify an occurrence of an entity.

- The entity identifier can be simple or composed of multiple attributes.

- An entity identifier is assigned to each entity upon creation.