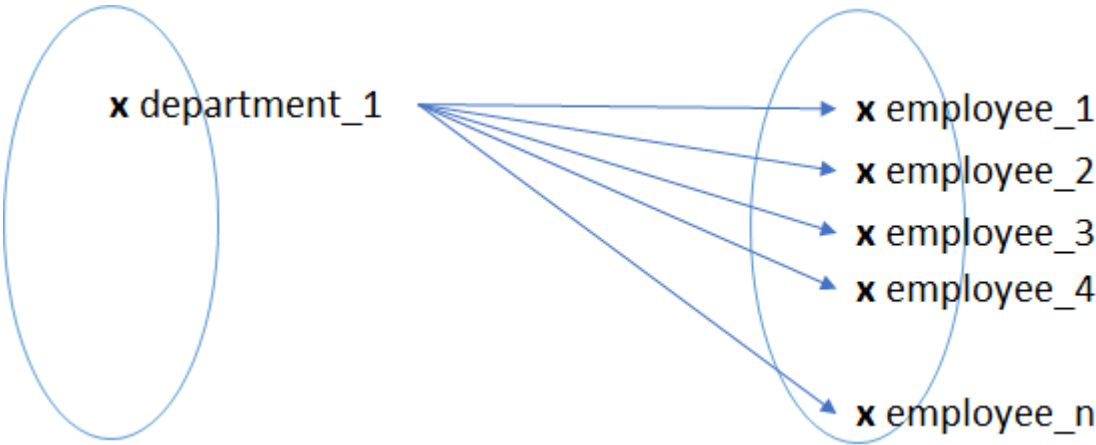
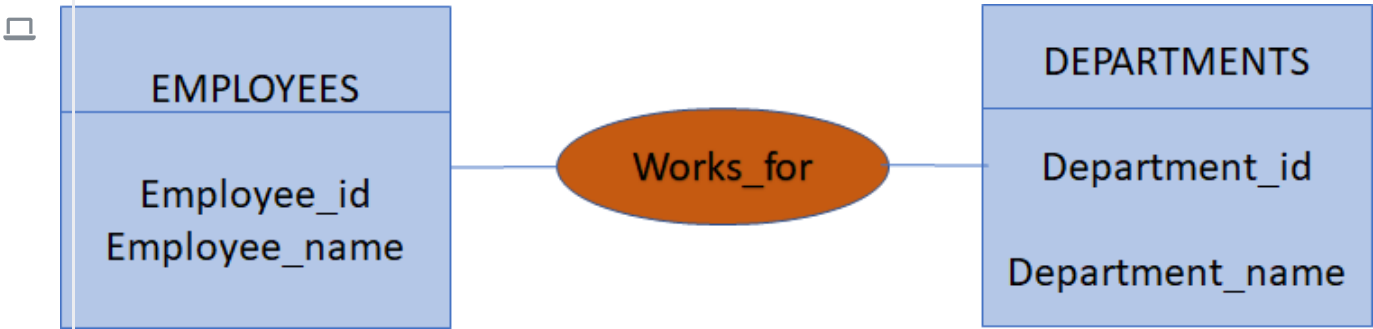


Relationship

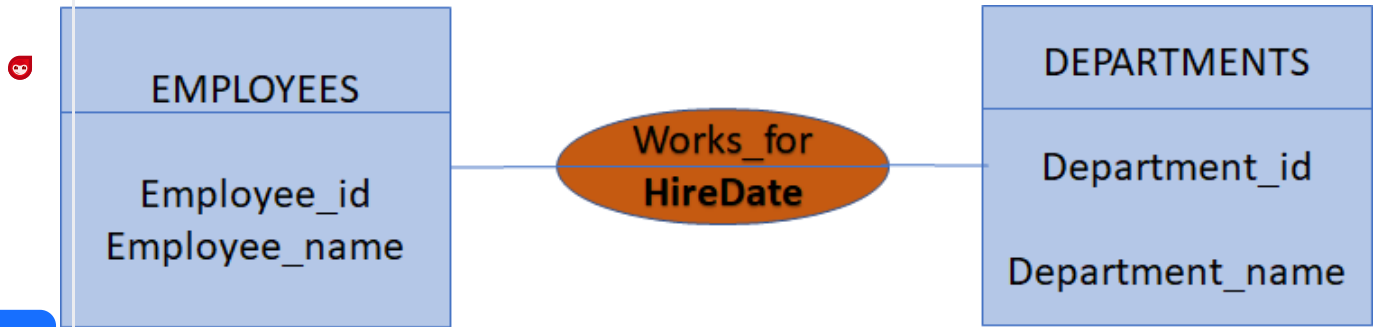
- A relationship represents links between entity occurrences.
- Several employees works in the department “department_1”.
- The relationship models the relation or association between department and employee entities



Relationship



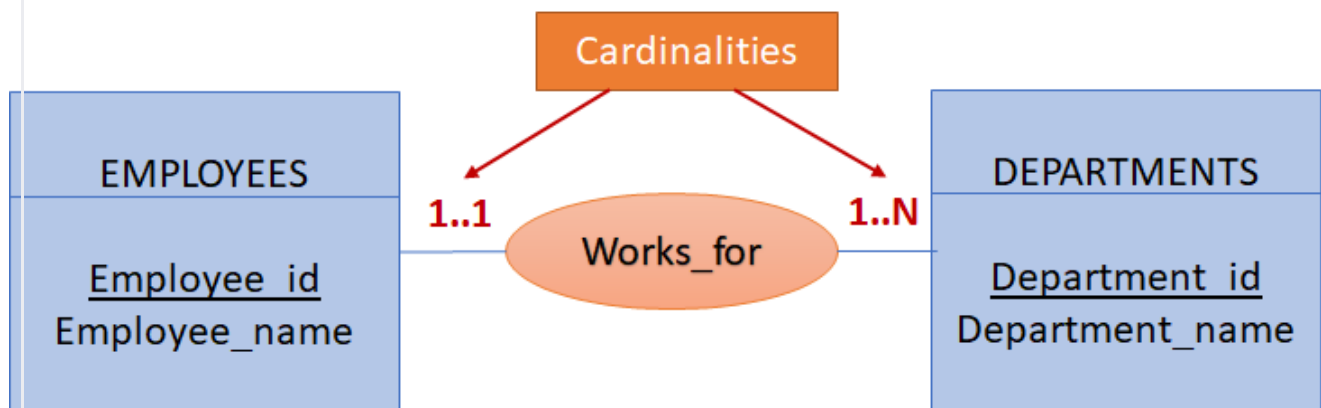
A relationship can have more information (attributes)



Cardinalities

- Cardinalities are among the properties of an association.
- In DBMS, cardinality refers to the relationship between two entities. We should have two terms of cardinalities, on the side of each entity.
- It models the number of times (minimum-maximum) of participation of the entity in the relationship.
- The minimum value is either 0 or 1 and the maximum value varies between 1 and N

Cardinalities

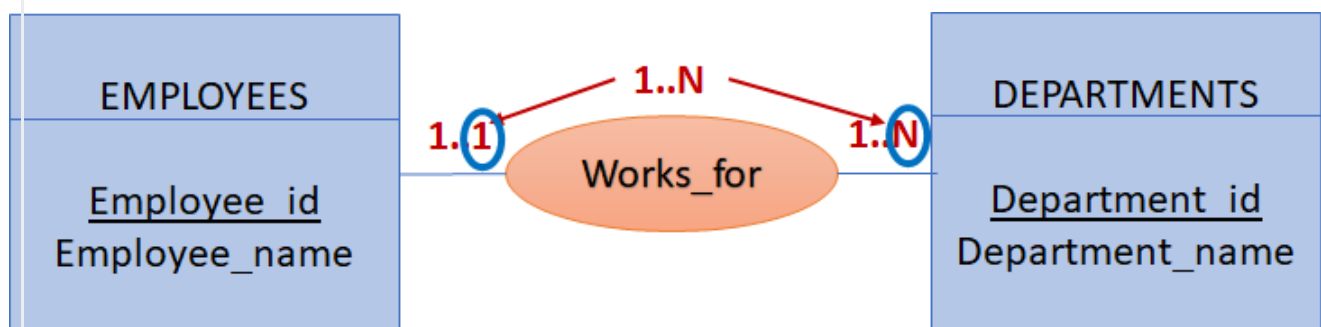


- One employee works in one department
- A department hires between one and N employees
- There are 4 types of cardinalities : 0..1, 0..N, 1..1, 1..N

Relationship types



- The type of a given relationship can be identified based on the cardinalities of each side.
- There are 3 types of relationship:
 - OnetoOne (1..1)
 - OnetoMany (1..N)
 - ManytoMany (N..N)



“Works_for” is OnetoMany relationship.

