SSN

EMPLOYEE

M

Attributes on relationships

Can migrate to the many side of relationship if 1:N or N:1

Partial key attribute (dotted underline)

Identifying relationship, weak entity always has total participation with it's owning entity via the identifying relationship.

HAS

Start Date

Start Date

Date Of Birth

N

- An employee has various dependents. I need to store their name and date of birth.

Name

DEPARTMENT

1

MANAGES

N

EMPLOYEE

Name

DEPENDENT

total participation

partial participation

Weak Entity - entity without a key attribute, gets a key attribute from another entity (Owner Entity) in combination with it's own attributes. Associated to the owner entity via. relationship (Identifying Relationship).
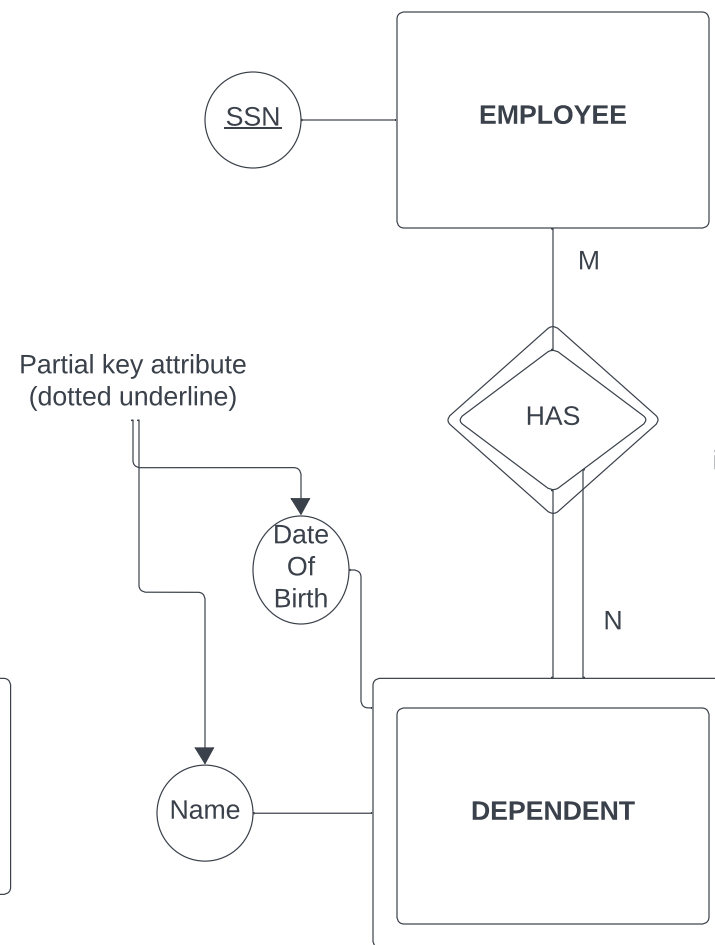
Logical data requirements
- An employee is a manager of a single department, but a department may be managed by multiple employees. Also, I need to keep track of the day an employee started managing a department.

Participation

Cardinality ratios
- 1:1 (one to one)
- 1:N (one to many)
- N:1 (many to one)
- M:N (many to many)

Binary relationship
2^n