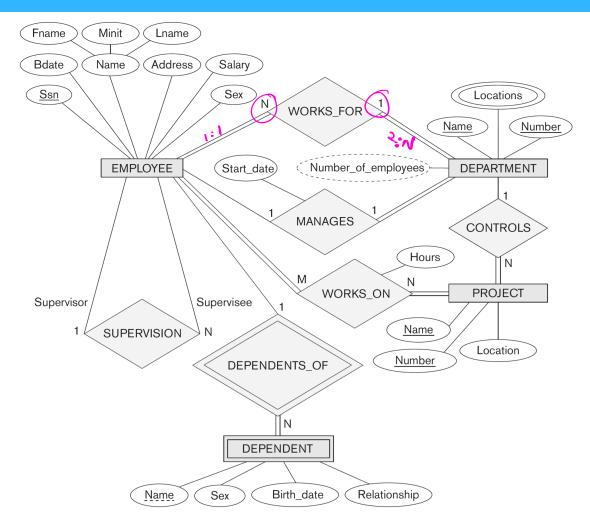
Example: COMPANY DB - ER Diagram



ER models

entity

- 1) Classes: entities tables (objects with altabutes)
- 2) Associations: relationships between entities Cinterconnected tables)
 - * Entitles e attributes EMPLOYEE entity - Name: John! - Address: "Kuysbury Hall"
 - Ase: altobutes

Set Instance

Attribute types

* simple vs. composite

* single-valued vs. multivalued

603 862 2134 WH

home#

home#

* stored vs. derwed

vs. derwed

vs. derwed

vs. derwed

by

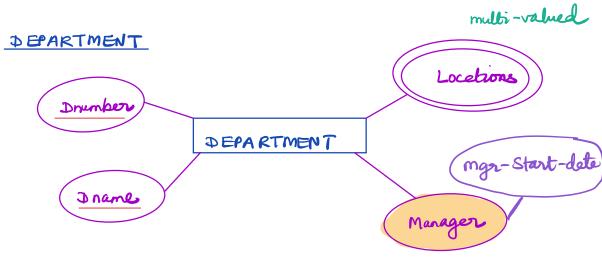
age = 40

Bdete

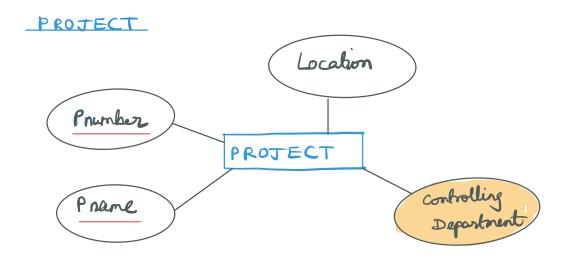
* NULL

COMPANY Database

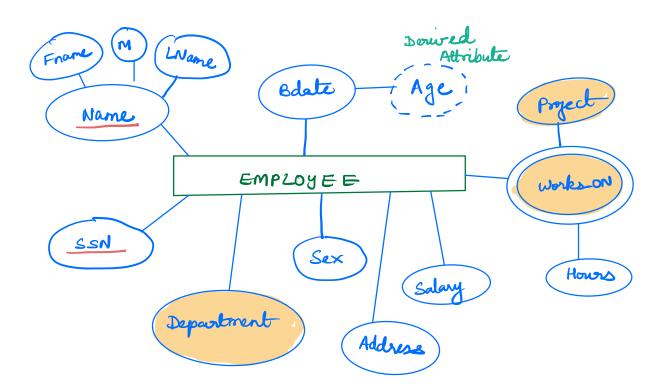
- * EMPLOYEE
- * DEPARTMENT
- * PROJECTS
- * DEPENDENTS



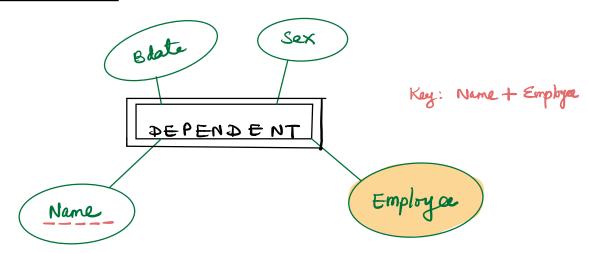
* underline all candidate keys.



EMPLO YEE



THEGHAGE



Relationships (Associations)

La capture the link between two entities

Constraint 1: Every employee must work for I and only I department.

Constraint 2: Every department must have a minimum of $N \ge 2$ employees.

