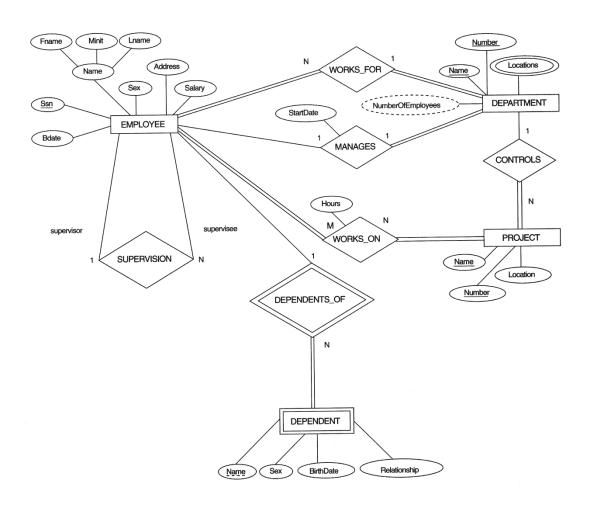
■ ER-to-Relational Mapping Algorithm

Transform the conceptual database design (ERD) into a logical database design that can be implemented on a chosen DBMS later (our choice: RDS)

- Input: conceptual model (ERD)
- Output: relational model (schema), normalized relations

The main steps are:

- Step 1: Mapping of Regular Entity Types
- Step 2: Mapping of Weak Entity Types
- Step 3: Mapping of Binary 1:1 Relation Types
- Step 4: Mapping of Binary 1:N Relationship Types.
- Step 5: Mapping of Binary M:N Relationship Types.
- Step 6: Mapping of Multivalued attributes.
- Step 7: Mapping of N-ary Relationship Types.



■ Step 1: Mapping of Regular Entity Types

EMPLOYEE

Fnan	e Minit	Lname	<u>Ssn</u>	Bdate	Address	Sex	Salary	l
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DEPARTMENT

Dname <u>Dnumber</u>

PROJECT

Pname Pnumber Plocation	Pname	Pnumber	Plocation
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Resulting Relational Schema

EMPLOYEE

