Converting ERDs to Database Schemas
Entity Types

- Become Tables
- Nested Attributes get flattened
- Keys become Keys
Entity Types

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Diagram:

- Employee Table
- Keys: SSN, Fname, MI, Lname, Salary, Addr, Sex, Bdate
- Attributes: MI, FName, LName, Addr, Sex, Bdate
1:N Relationship Types

Department

Controls

Project

Dnumber

Dname

Pnumber

1

N
1:N Relationship Types

become Foreign Keys
1:N Relationship Types

become Foreign Keys
1:N Relationship Types

Department

Dnumber
Dname

Controls

1

N

Project

Pnumber

become Foreign Keys

DEPARTMENT
DNUMBER  DNAME

PROJECT
PNUMBER  DNUM
M:N Relationship Types

EMPLOYEE

SSN
NAME

WORKS_ON

HRS

PROJECT

PNUMBER
PNAME
M:N Relationship Types

become Tables with 2 Foreign Keys
M:N Relationship Types

become Tables with 2 Foreign Keys
M:N Relationship Types

become Tables with 2 Foreign Keys
M:N Relationship Types

become Tables with 2 Foreign Keys

FKs are KEY of Table
Weak Entities & Defining Relationships

• Treated like Regular Entities and Relationships
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KEY includes FK & Partial
Multivalued Attributes

- Become Tables with Foreign Keys
Multivalued Attributes

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Multivalued Attributes

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