Converting ERDs to Database Schemas

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

### Entity Types

<table>
<thead>
<tr>
<th>Employee</th>
<th>SSN</th>
<th>Fname</th>
<th>MI</th>
<th>Lname</th>
<th>Salary</th>
<th>Addr</th>
<th>Sex</th>
<th>Bdate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
1:N Relationship Types

become 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

EMPLOYEE

\[ \text{DNAME} \]

\[ \text{DEPENDENT} \]

\[ \text{Has} \]

\[ \text{EMPLOYEE} \]

SSN

DNO

\[ \text{DEPENDENT} \]

ESSN

DEP_NAME

KEY includes FK & Partial

Multivalued Attributes

• Become Tables with Foreign Keys

Department

Dnumber

Dname

Locations

\[ \text{DEPARTMENT} \]

DNUMBER

MGRSSN

\[ \text{DEPARTMENT LOCATION} \]

DNUMBER

LOCATION

Key is FK + another attrib