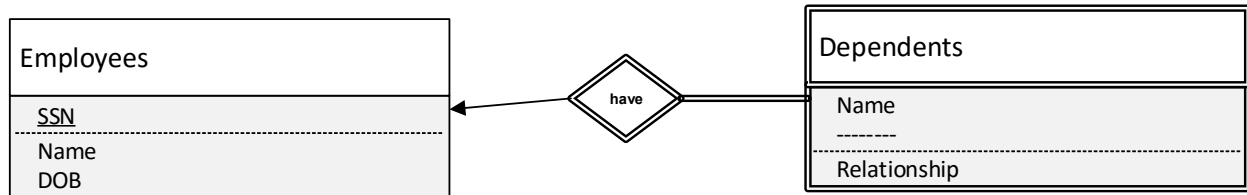


Converting Weak Entities to the Relational Model

Let's consider the following weak entity relationship:



This says that Employees may have 0:many dependents, and that every Dependent must have one and only one Employee.

The SQL to implement this is:

```
CREATE TABLE Employees (  
  SSN CHAR(9),  
  Name CHAR(30),  
  DOB DATE,  
  PRIMARY KEY (SSN))  
  
CREATE TABLE Dependents (  
  SSN CHAR(9),  
  Name CHAR(30),  
  Relationship CHAR(20),  
  PRIMARY KEY (SSN, Name),  
  FOREIGN KEY (SSN) REFERENCES Employees  
    ON DELETE CASCADE)
```

The ON DELETE CASCADE clause is required because a weak entity set has no meaning without the corresponding strong entity set primary key.