

Homework:

"Lucy, Ricky, Ethel and Fred start a business"

- Let's map several Entities and see the effects in the database!



Homework: Identify Modeling →

- Cardinality: (1→M, etc.)
- Direction: (uni or bi)
- Join Table or Foreign Key

Answer these questions for each relationship

Relationship	Business Logic	Reporting Needs	How to Model?
Emp-Dept	An employee can only be in one department. Guaranteed!	<ul style="list-style-type: none"> • Department Roster that displays in which buildings they can be found, and lists each department member. • Employee status, including department and role. • A list of all roles, and the current employees that occupy these roles. • List of buildings that have dining services, and on which floors. • Building report that shows which departments are resident • No need to report on floors directly, as they have no context apart from their building. 	
Emp-Role	An employee can only have one role, but some think this could change in the distant future.		
Dept-Bldg	A department can be located in several buildings. Many departments can share a building.		
Bldg-Floor	A building has many floors.		

Homework: Implement this data

- Here is the complete set of your data
- Build these classes with the appropriate JPA Annotations
- Do not lose any of this data
- Create a program to create Entities and persist the data in an Oracle database

Employee	Hire Date	Dept	Role
Lucy	06-Aug-2010	IT	Analyst
Ricky	11-Dec-2012	Sales	Admin
Fred	01-Jun-1990	IT	Manager
Ethel	17-May-1997	HR	Admin

Building	City	Depts	Floors
Chrysler	New York	IT, HR	<ul style="list-style-type: none">• 17th: 5 conf rooms, no dining facility• 18th: 3 conf rooms, dining available• 19th: no conf rooms, no dining facility
Pavilion	Camden	IT, Sales	<ul style="list-style-type: none">• Lobby: no conf rooms, dining facility