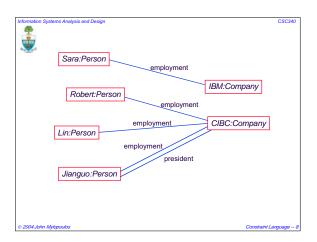


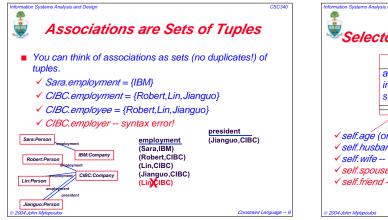


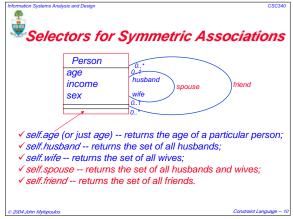
- When there are no associated objects to an an object obj through association assoc (or role rl), then obj.assoc and obj.rl return the empty bag {} or empty.
- Note, nil ≠ {}.

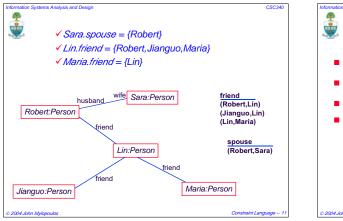
١

- Moreover, {nil} = {}, {Sara,nil, nil} = {Sara} etc.
- This means that if Sara.age = nil, George.age = nil, then {Sara.age,George.age} = {}











## Composition of Selectors

Selectors can be composed:

V

- ✓ self.sel1.sel2 = (self.sel1).sel2 means that we take the value of self.sel1 (either a single value or a bag) and we apply to it sel2.
- For example, self.friend.income returns the bag of all income values of objects in the bag self.friend
- e.g., if self.friend = {Tom,Maria,Sara} and their incomes are respectively \$16K, \$19K and \$16K, then self.friend.income = {\$16K,\$19K,\$16K}

