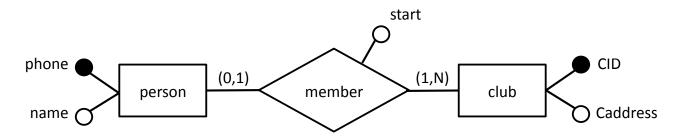
ER Diagrams: Solutions

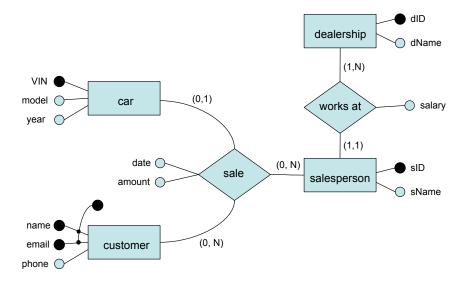
1. Consider the following ER diagram:



Which of these cardinalities is possible?

person	member	club	Is it possible?	
5	0	8	Yes No	should be Imemberl >= Iclubl
5	7	8	Yes No	at least 7 person for member to work
5	0	5	Yes No	
5	10	5	Yes No	not enough person to fill up member
11	3	4	Yes No	should be Imemberl >= Iclubl
11	9	4	Yes No	

2. Below is an Entity-Relationship diagram about car dealerships. It may or may not represent the domain well. Answer the questions below.



since each row in sale is a combination of car and salesperson

(a)	Α	car	sale	${\rm cannot}$	involve	more	than	one salesperson.

True False

(b) There can be two cars with the same VIN as long as the model and year are different.

True False VIN is the key so no dup

(c) A sale sperson can work at any number of dealerships. $\;$ at least 1

True False

(d) There can't be more salespeople than dealerships.

True False could be all salespeople go to one dealership

(e) There can be multiple sales on the same date.

True False yes, sales alone is not key

(f) Two salespeople can have the same sID as long as they work at different dealerships.

True False sID is the key so no

(g) This model contains a weak entity set.

True False

(h) The works at relationship is a one-to-many relationship.

True False yes, the maxes