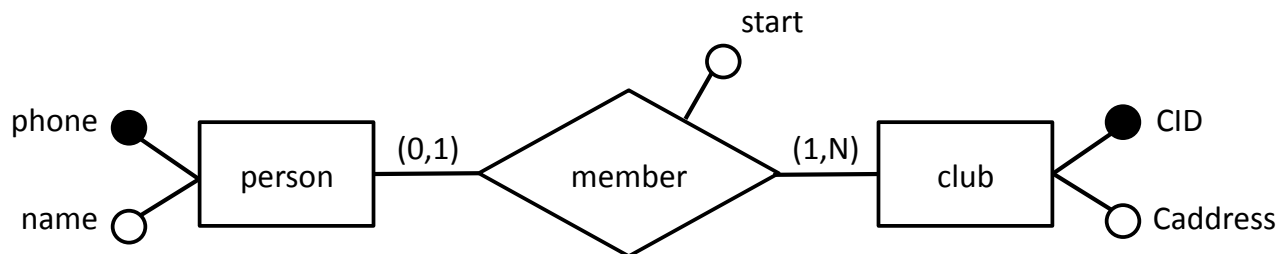


# ER Diagrams: Solutions

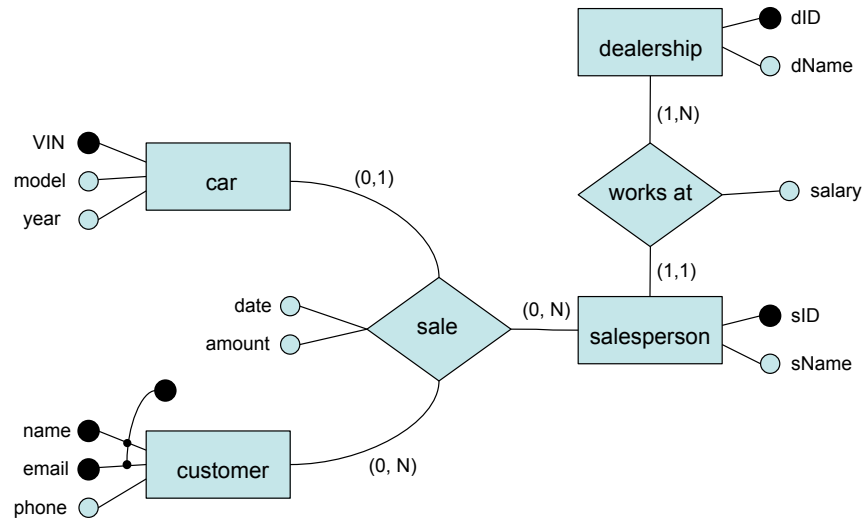
- Consider the following ER diagram:



Which of these cardinalities is possible?

person	member	club	Is it possible?
5	0	8	YES <input type="checkbox"/> No <input checked="" type="checkbox"/>
5	7	8	YES <input type="checkbox"/> No <input checked="" type="checkbox"/>
5	0	5	YES <input type="checkbox"/> No <input checked="" type="checkbox"/>
5	10	5	YES <input type="checkbox"/> No <input checked="" type="checkbox"/>
11	3	4	YES <input type="checkbox"/> No <input checked="" type="checkbox"/>
11	9	4	<input checked="" type="checkbox"/> YES No <input type="checkbox"/>

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



- (a) A car sale 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

- (c) A salesperson can work at any number of dealerships.

☐ True ☒ False

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

☐ True ☒ False

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

☒ True ☐ False

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

☐ True ☒ False

- (g) This model contains a weak entity set.

☐ True ☒ False

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

☒ True ☐ False