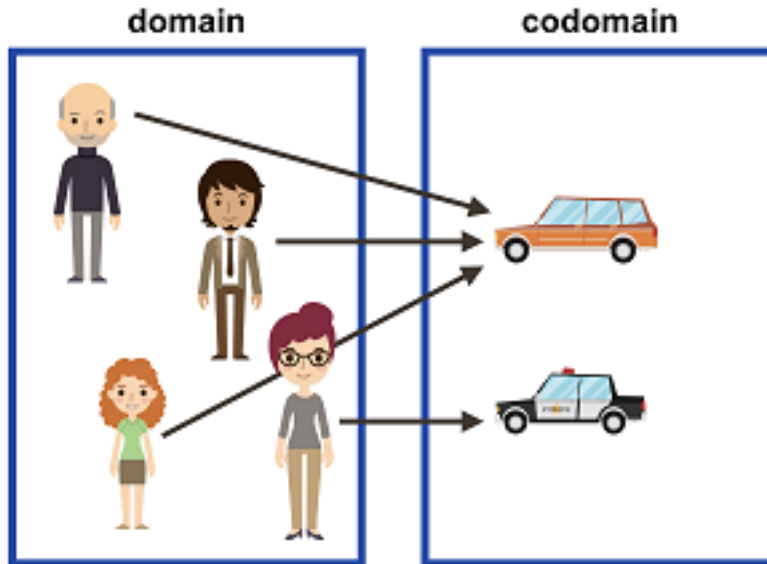


Definition 1. The map below defines the *Owner* relation.



The *Owner* relation includes three sets:

- The domain consists of 5 owners identified in the map.
- The codomain consists of 2 cars identified in the map.
- A set of ordered pairs. The pair (person, car) is a member of the Owner relation if the person is connected to the car with an arrow.

Exercise 1 Is Owner a well-defined function?

Multiple Choice:

- (a) Yes ✓
- (b) No

Feedback (attempt): Each domain owner is associated with exactly one codomain car.

Exercise 2 There are the same number of domain items as pairs in the Owner function.

Multiple Choice:

(a) True ✓

(b) False

Feedback (attempt): Each domain person is in exactly one pair.

Definition 2. A function is said to be **one-to-one** if every pair contains a different range item. In other words, there are no repeated function values.

Exercise 3 Is Owner a one-to-one function?

Multiple Choice:

(a) Yes

(b) No ✓

Feedback (attempt):



is in three pairs.
