

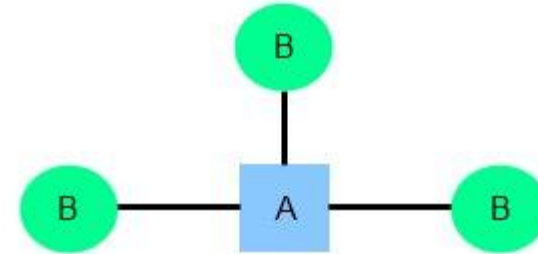
relationships

Common relationship

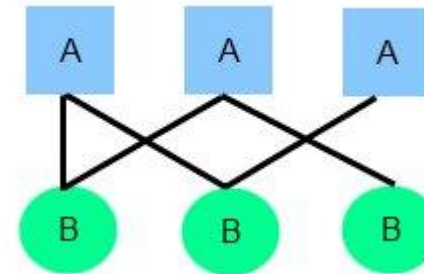
one-to-one (1:1)



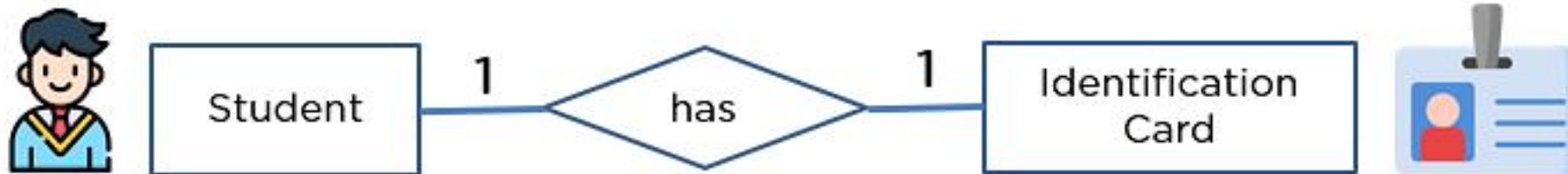
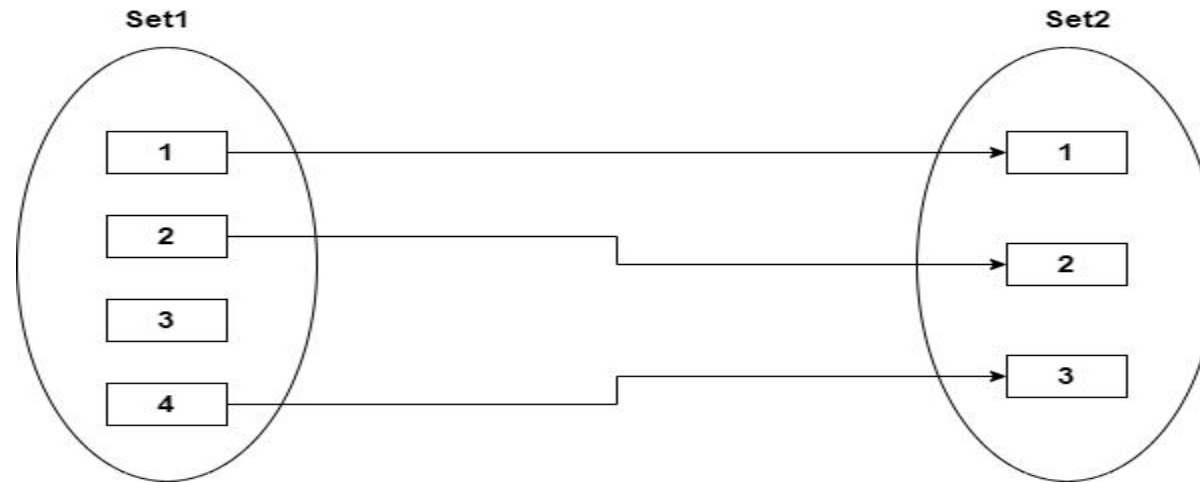
one-to-many (1:M)



many-to-many (M:N)



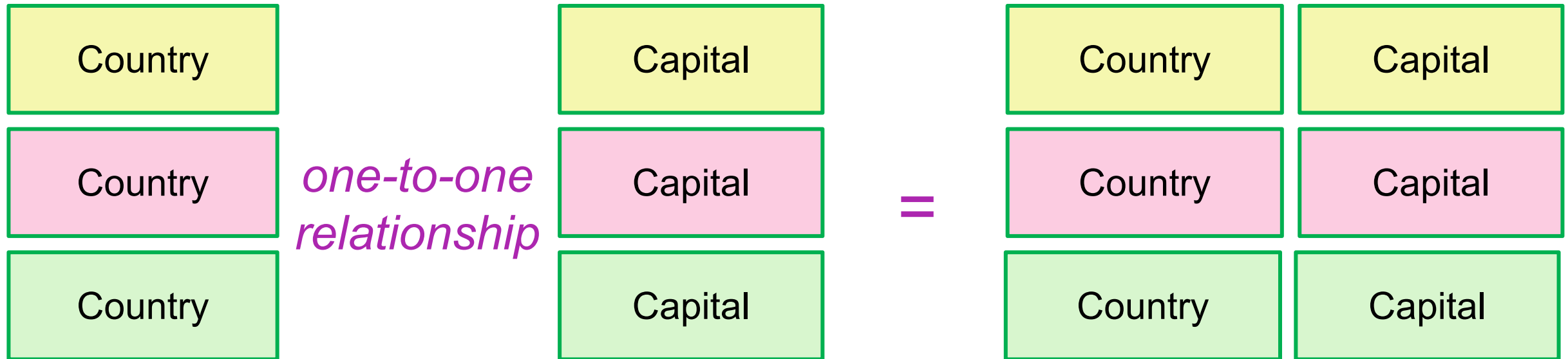
one-to-one relationship



one-to-one relationship

A *one-to-one* relationship between two tables means that a row in one table can only relate to zero/one row in the table on the other side of their relationship. This is the least common database relationship.

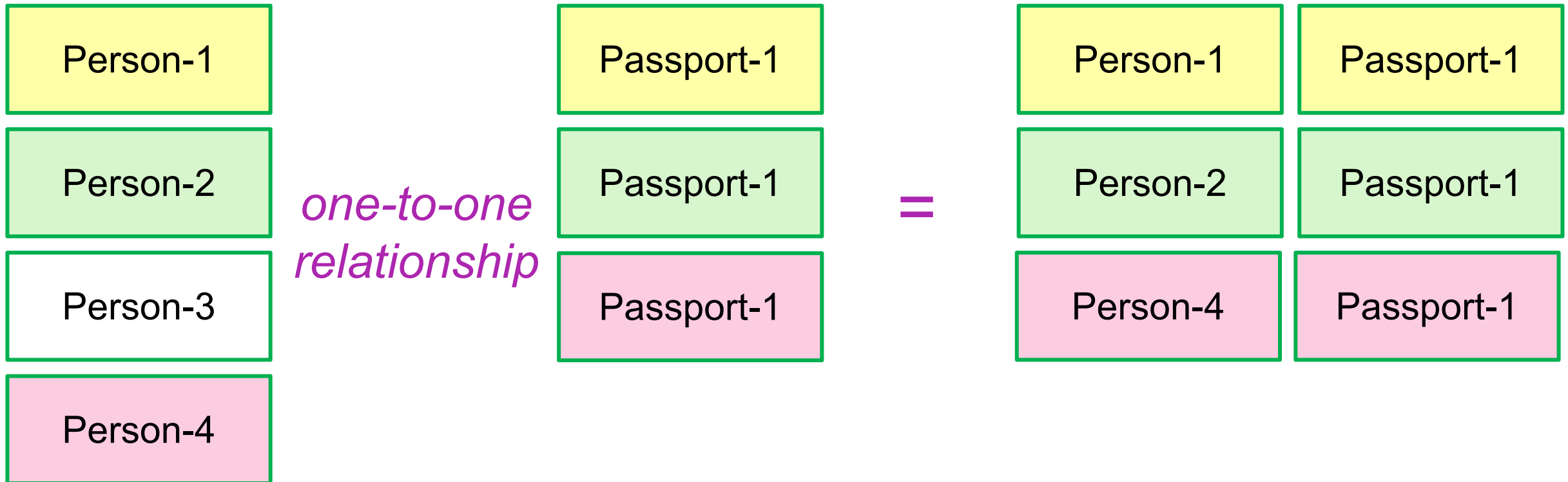
A *one-to-one* relationship is a type of cardinality that refers to the relationship between two entities R and S in which one element of entity R may only be linked to zero/one element of entity S , and vice versa.



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how to create one-to-one relationship

```
CREATE TABLE person (  
  person_ID INT PRIMARY KEY ,  
  name VARCHAR(45),  
  emailID VARCHAR(128)  
);
```

	person_ID	name	emailID
▶	1	Ramesh	ramesh@gmail.com
	2	Rajan	rajan.hotmail.com
	3	Kumar	kumer112@yahoo.com
	4	Suraj	suran@gmail.com
•	NULL	NULL	NULL

```
CREATE TABLE passportDetails (  
  passportID VARCHAR(20) PRIMARY KEY ,  
  passport_Number VARCHAR(255),  
  person_ID INT UNIQUE,  
  FOREIGN KEY(person_ID) REFERENCES  
  person(person_ID)  
);
```

	passportID	passport_Number	person_ID
▶	IN-zx001	IN-XAJS1028S	1
	IN-zx002	IN-XBDH1738S	2
	IN-zx003	IN-XCKE1933S	3
•	NULL	NULL	NULL

