

EXERCISE 5:

You want to store information on marriages. We want to know who is married to who. We don't care about historical information. We can have same sex marriages. Also, store the date of the marriage.

ASSUMPTIONS:

-married only once
-still married

SUBJECT MATTER: People and Marriages

Can 1 person have more than one marriage license?
Can 1 marriage license be had by many people?

NO, married only once
YES, 1 marriage license per 2 people

Therefore:

ENTITY RELATIONSHIP: One-to-Many

BASE TABLE**Marriage License Table**

PRIMARY KEY

License Number	Marriage Date
M-2014-11111	August 23, 2014
M-1999-22222	July 4, 1999
M-1997-33333	#####
M-2008-44444	Aug. 16, 2008

RELATED TABLE**Married People Table**

PRIMARY KEY

FOREIGN KEY

UNIQUE KEY

Social Security	License Number	First Name	Last Name	Phone Number
222-22-2222	M-2014-11111	Angelina	Jolie	916-555-5555
333-33-3333	M-1999-22222	Victoria	Beckham	916-666-6666
444-44-4444	M-1997-33333	Jada	Smith	NULL
555-55-5555	M-2008-44444	Ellen	DeGeneres	916-888-8888
666-66-6666	M-2014-11111	Brad	Pitt	916-111-1111
777-77-7777	M-1999-22222	David	Beckham	916-222-2222
888-88-8888	M-1997-33333	Will	Smith	NULL
999-99-9999	M-2008-44444	Portia	de Rossi	916-444-4444

ONE-TO-MANY

-ONE side is the BASE TABLE, MANY side is the RELATED TABLE

-PRIMARY KEY is USED TO JOIN

-FOREIGN KEY: Field in ONE TABLE which is PRIMARY KEY in ANOTHER TABLE