
What is a many-to-many yelationship?

Many yeconds in one table yelate to many yeconds in another table.

exi- students ennol in classes

- · A student can have many classes.
- . I class can have many students.

But having this yelationship in a database is a PROBLEM.

student and class Pables

	student		1	1	class		Auril 1
t D	Name			ID	^	Vame	
, locks	John			2	n a c	DBOI	1 1 ·
2	Mark	Berthau.		5	dick h	PHOL	
3	Sarah	Ť	1 . 1	7	11 10	DEBOI	
4	Claire			8	L	JEB02	

Now, if we want to yelate these two tables together, we put the PK of one into the other table as fk.

	student	iles fales _s	(Feyn)		class	a sagar	
LD	Name	class ED		ED	Name	Student I)	
1	John	2,5	1	2	3801	1, 4	
2	Mark	5,7		5	PHOI	1, 2, 4	
3	Sarah	8	1:	7	WEBOI	2	
4	Claire	2.5,8		8	WEBOZ	3, 4	
	1 2 3 4	1 John 2 Mark 3 Sarah	1 John 2,5 2 Mark 5,7 3 Sarah 8	1 John 2,5 2 Mark 5,7 3 Sarah 8	1 John 2,5 2 2 Mark 5,7 5 3 Sarah 8 7	1 John 2,5 2 0801 2 Mark 5,7 5 PHOI 3 Sarah 8 7 WEBOI	1 John 2,5 2 0801 1,4 2 Mark 5,7 5 PHOI 1,2,4 3 Sarah 8 7 WEBOI 2

A	W.	can't	use	comma	separated	value]	All breakes
							,
*	We	can't	add	another	OM3 beca	ese then we areduplicati	ny students.

that is the most of your

So, how do we execute many to many spelationships.

b We create a JOINING TABLE JUNCTION TABLE

or BRIDGING TABLE

Instead of this

student class

We have this

student student class class

The joining table is used to capture every instance of nelated data blue the two tables.

In this ex: - It captures every instance of student and class.

Les Not every possible combination

Les just those that you want to store.

	student		ste	dent-class	7	class	
PK	id	+	FK	student-id	T	PK id	
	nam e		FK	class - id		nan	ne

This is how many to many yelationship is stored in a db as 2 one to many exelationships.

Sample data example on next page

areduction that students

stu	dent		student_c	lass	class		
LD	Name	10	Student ID		EnrolDate	LD.	Name
1	John	1	1	2	<u> </u>	2	JBOI
2	Mark	2.	1	5		5	PHOI
3	Sarah	3	2	5	The Language	7	WEBOI
4	Claire	4	2	7		8	WEB02
		5	3	P			
	į	6	4	2			
		7	4	5			
		8	4	8			

* No need of PK. But we can always have that if we need.

* We can add additional data to it. In this ex: enroldate

Mame of the table

student_class > very general

enrolment

> Specific & meaningful.

class-enrolment