HW 4- Solution

Let's suppose that we add a new field « Delivery Countries» to the table «suppliers».

This new field contains the countries where a given supplier can deliver books.

One supplier can have many delivery countries.

Explain and manage the relationship between «countries» and «suppliers» in this case.

Check the database : book store -tables and relationships-many to many

Suppliers & Countries Delivery countries field added

	cou	ntries							
		ID	-	COUNTRY	-	Cliquer p	our ajouter	-	
	(±	1		Abu Dha	bi				
	Ŧ	2		Afghanist	an				
	÷	3		Albania					
	Ŧ	4		Algeria					
	(±	5		American Sa					
	Ŧ	6		Andorra					
	÷.	7		Angola					
	+	8		Anguilla					
	(±	9		Antarctic					
	÷	10		Antigua:Barl					
	÷	11		Argentin					
	Đ	12		Armenia	1				
	±	13		Aruba					
	+	14 15		Austral Oce					
	E E	15		Australia Austria					
	÷	10		Austria					
	E	18		Bahama					
	(H)	19		Bahrain	5				
	÷	20		Banglade	sh				
	÷	21		Barbado					
	+	22		Relarus					
🛄 sup	opliers								
2	ID	* 1	sup	plier code ,	nai	me 🔹	surname	-	paym
÷		1		AA01	ah	mad	alawi		credit
÷		2		AP	ant	tonio	patino		on line
÷		3		BH		rnard	hugo		dept
÷		4		ТВ	Te	essa	blair		cash
+		5		SG		rena	gonza		other
+		6		MA		ammed	al-durah		check

- <u>Each</u> supplier can send orders (books) to <u>Many</u> countries.
- <u>Each</u> country can be supplied by <u>Many</u> suppliers.

It should be a <u>Many to Many</u> relationship.(don't confuse with one to many)

	ID +1	supplier code 👻	name 👻	surname	- payment -	website 👻	country -	Delivery countries	 Cliquer p
+	1	AA01	ahmad	alawi	credit card	ketab.ma	Morocco	Iraq, Japan, Jordan, Morocco	
÷	2	AP	antonio	patino	on line	book.com	Cyprus	France, Iran, Italy, Turkey	
÷	3	BH	Bernard	hugo	dept	lire.com	France	Algeria, Nigeria, Palestine	
÷	4	TB	Tessa	blair	cash	read.com	Turkey	Spain, Turkey, UAE, Ukraine, Vietnam	
+	5	SG	serena	gonza	other	knowledge.fr	France	Egypt, Tunisia, Turkmenistan, Yemen	
÷	6	MA	Mohammed	al-durah	check	durah.com	Palestine	China, Kuwait, Lebanon, Libya	
	(Nouv.)								

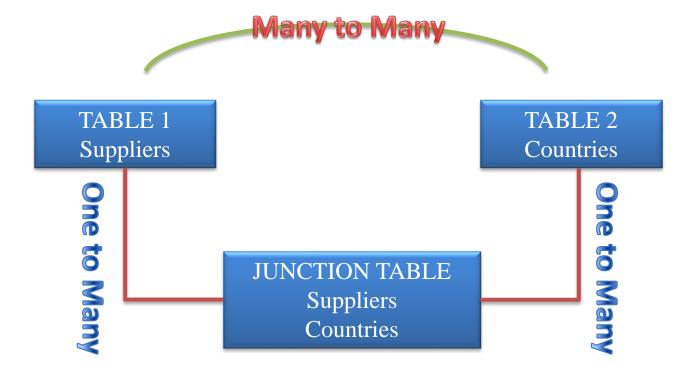
Suppliers			Countries
Supplier 1	Each Supplier appears One time in		115, country 121, country 122
Supplier 2 Supplier 4	«Suppliers» and	•	86,country 114, <u>country 244</u> 244
•	corresponds to Many	•	
: Suppliıer i	countries in «countries»	:	Country j,country k
	«countries»		
ONE	to		Many
Countries			Suppliers
Country 244		appears	Supplier 1, supplier 2
Country 86	1		Supplier 2
Country 18	and many t		Supplier 3
	«Supplie	ers»	
Country i			Supplier j,Supplier k
ONE	to		Many
Parent (Cou	intries) Child	(Suppliers)	
One	to	Man	$^{v} \longrightarrow Many$ to $Many$
Many	to	one	

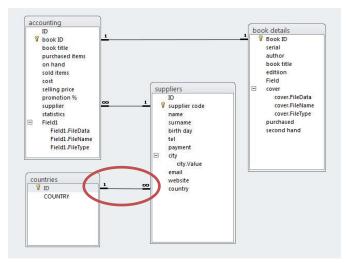
How to manage a Many to Many relationship in Access ?

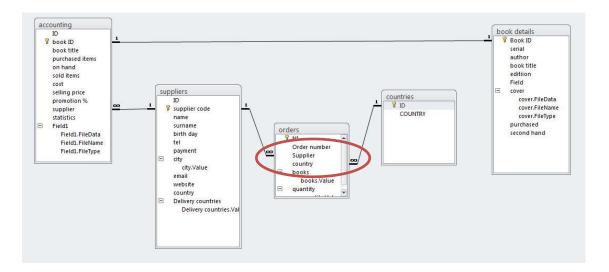
When we are trying to connect the two «many» sides of a relationship. We obtain «Indeterminate» relationship.

Table/Query:	Related Table/Que	ry:	Create
suppliers	▼ countries		
country		*	Cancel
-	1		Join Type
Cascade Update	Company and a second second		Create New.

So, we devide the «many to many» relationship into two «one to many relationship» by the intermediate of a junction table .(see your notes part 3-page 173)







Design the junction table

	Field Name	Data Type				
₿► N°		AutoNumber				
Orde	er number	Text				
Supp	olier	Text Number				
cour	itry					
book	(5	Text				
quar	ntity	Text				

	orders										
	N°	Ŧ	Order number	-	Supplier	-	country	books	-	quantity	•
		1	AP10/29/19		AP		Turkey	GO01, SM34		10, 6	
		2	AA01/22/11/19		AA01		Jordan	IT37		15	
		3	BH/12/12/2019		BH		Nigeria	FA23		17	
÷	(No	ouv.)									

