

**HW 4**  
**AND**  
**Solution of HW 3**

# Homework 3 solution

- Import an excel file containing the list of countries .
- Add the field «countries» to the suppliers table. (the countries where the suppliers are located)
- Explain and manage the relationships between the tables.

(Check the file : book store -tables and relationships)

# Relationships = Database Bridges



In order to manage the relationship, it is necessary to check the both directions (because many to many relationships are hidden in one to many relationships sometimes) .

Table1 >>> Table2 and Tanble2 >>> table1.

# Our tables are :

- 1-Book details
- 2-Suppliers
- 3-Accounting
- 4-Countries

We can have  $\binom{4}{2} = 6$  *relationships* :

1 & 2	1 & 3	1 & 4
2 & 3	2 & 4	3 & 4

If we have to connect four cities ,is it logic to construct bridges between each two of them ?  
It means 6 bridges !!!

Of course not , because it is a loss of time and energy .So if we have to connect four cities, we can use only 3 bridges instead of 6.

1



2



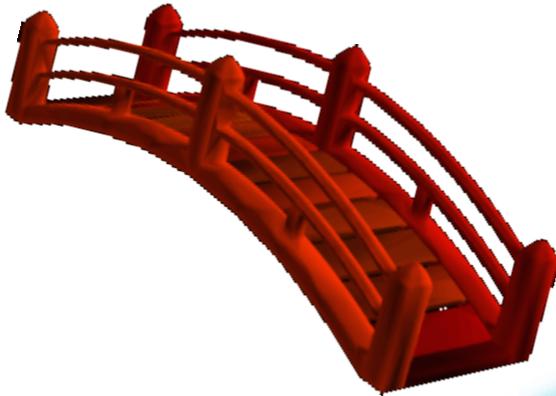
1 and 3 are connected via 4

2 and 4 are connected via 1

2 and 3 are connected via 1&4

>> All the cities (tables) are linked

>> We can have travel (queries ,form and reports ) between any 2 cities without any problem



4



3



In order to create a meaningful relationship between two tables they should have a common field. So the relationships that we can have are :

1-Book details & Accounting

2-Suppliers & Accounting

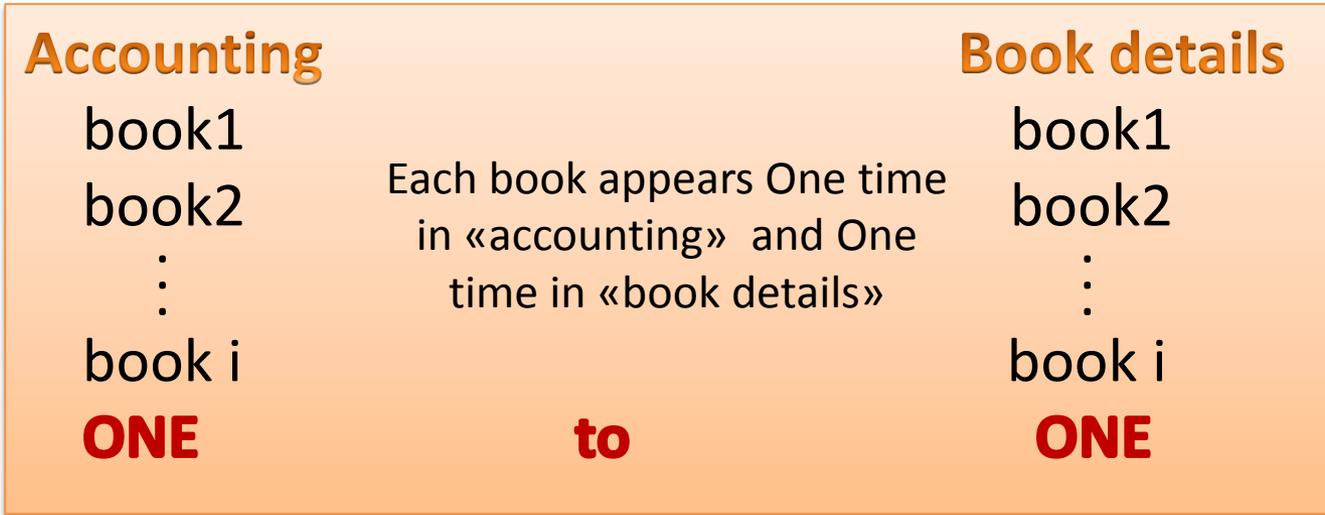
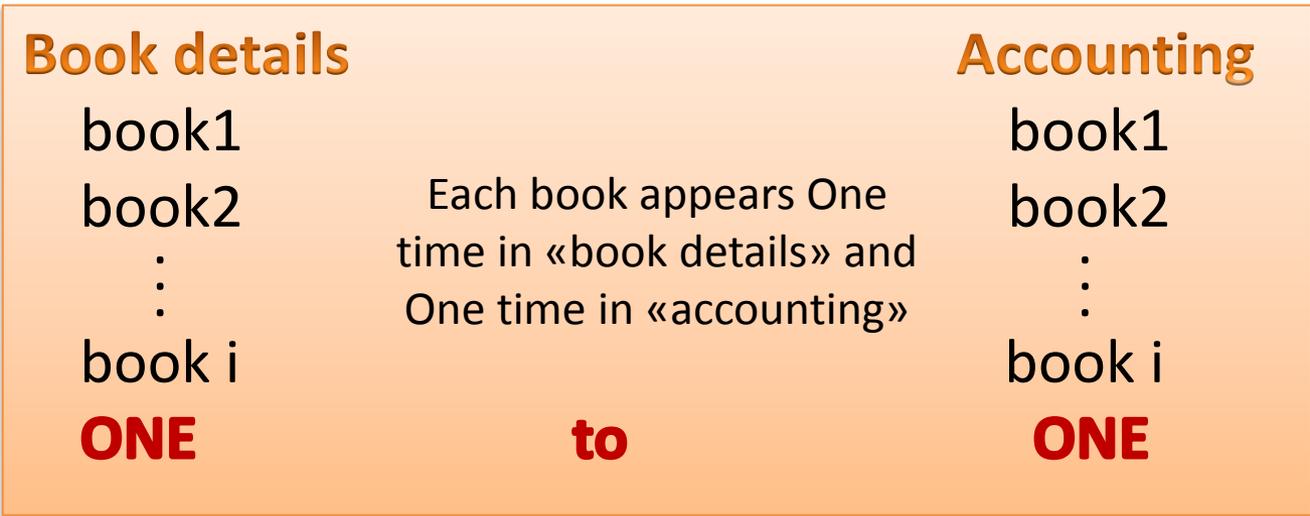
3-Suppliers & Countries

# 1-Book details & Accounting

book details					
serial	Book ID	author	book title	edition	
1	DA06	Douglas C.Montgomery	design and analysis of experiments	8	
2	FA23	ruchi goyal	financial accounting	4	
3	SM34	Daniel T.Kaplan	statistical modeling	5	
4	GO01	Eliyahu M.Goldratt	the goal	3	
5	DE05	Jiju antony	Design of experiments	1	
6	PP02	s.k mukhopadhyay	Production planning and control	2	
7	MA09	R.S.N pillai bagavati	Management Accounting	2	
8	OR01	hamdy A.taha	Operations Research	7	
9	IT37	John M.jordan	Information thechnology and	1	
*	(Nouv.)				

accounting				
ID	book ID	book title	purchased items	
1	GO01	the goal	10	
2	DE05	Design of experiments	20	
3	PP02	Production planning and control	5	
4	MA09	Management Accounting	6	
5	OR01	Operations Research	9	
6	IT37	Information thechnology and innovation	12	
7	SM34	statistical modeling	7	
8	DA06	design and analysis of experiments	8	
9	FA23	financial accounting	8	
*	(Nouv.)			

We are doing the accounting once for each book . It should be **one to one** relationship.



Parent (book details)

One  
One

to  
to

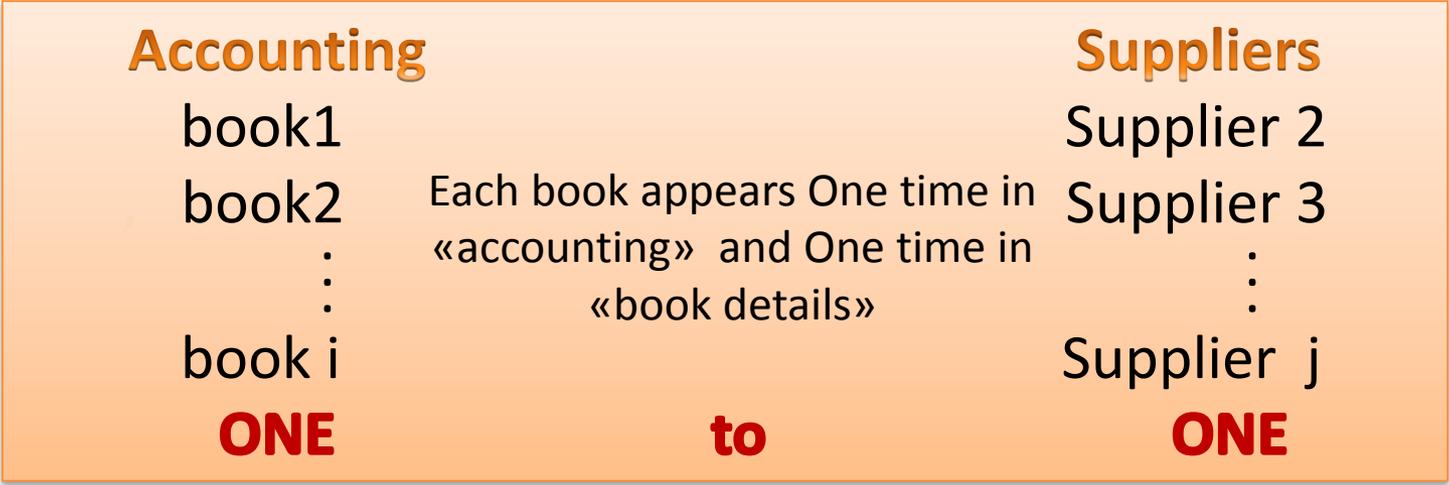
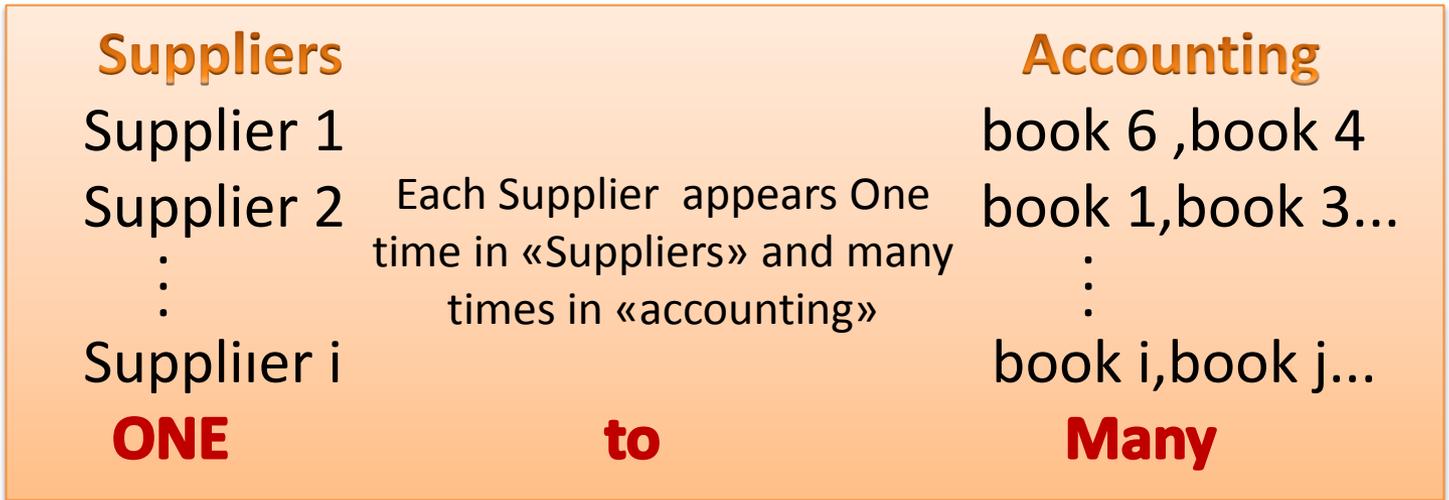
Child (accounting)

one  
one

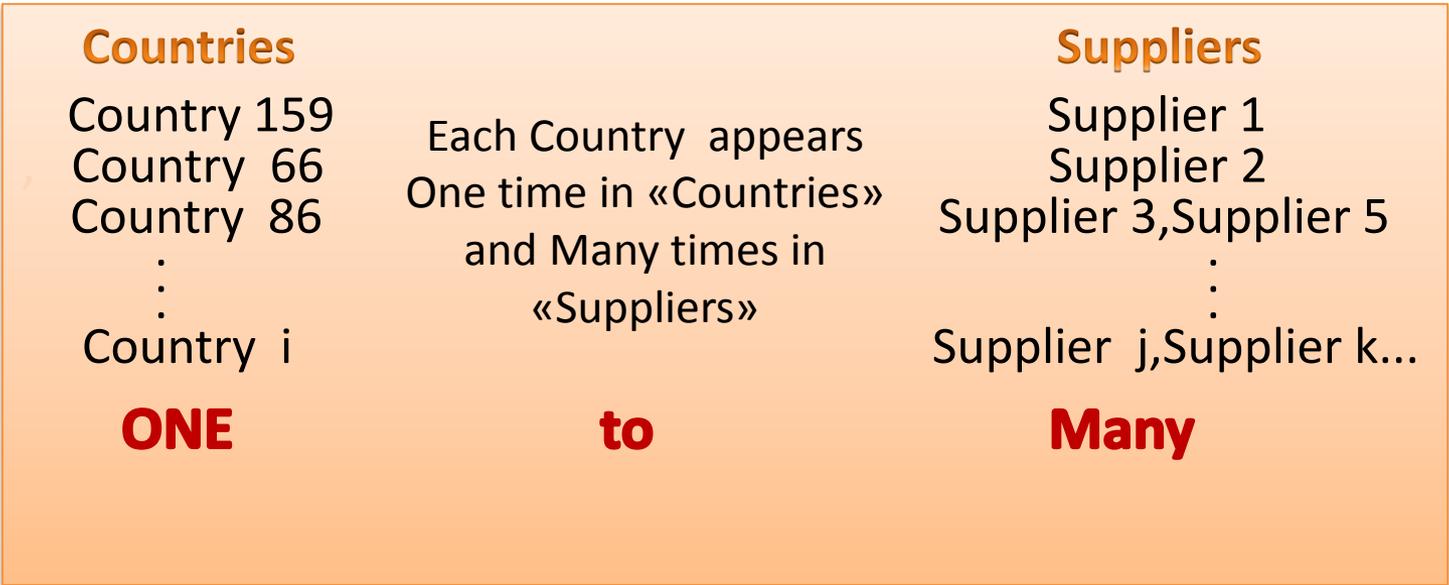


**One to One**









Parent (Countries)

One  
One

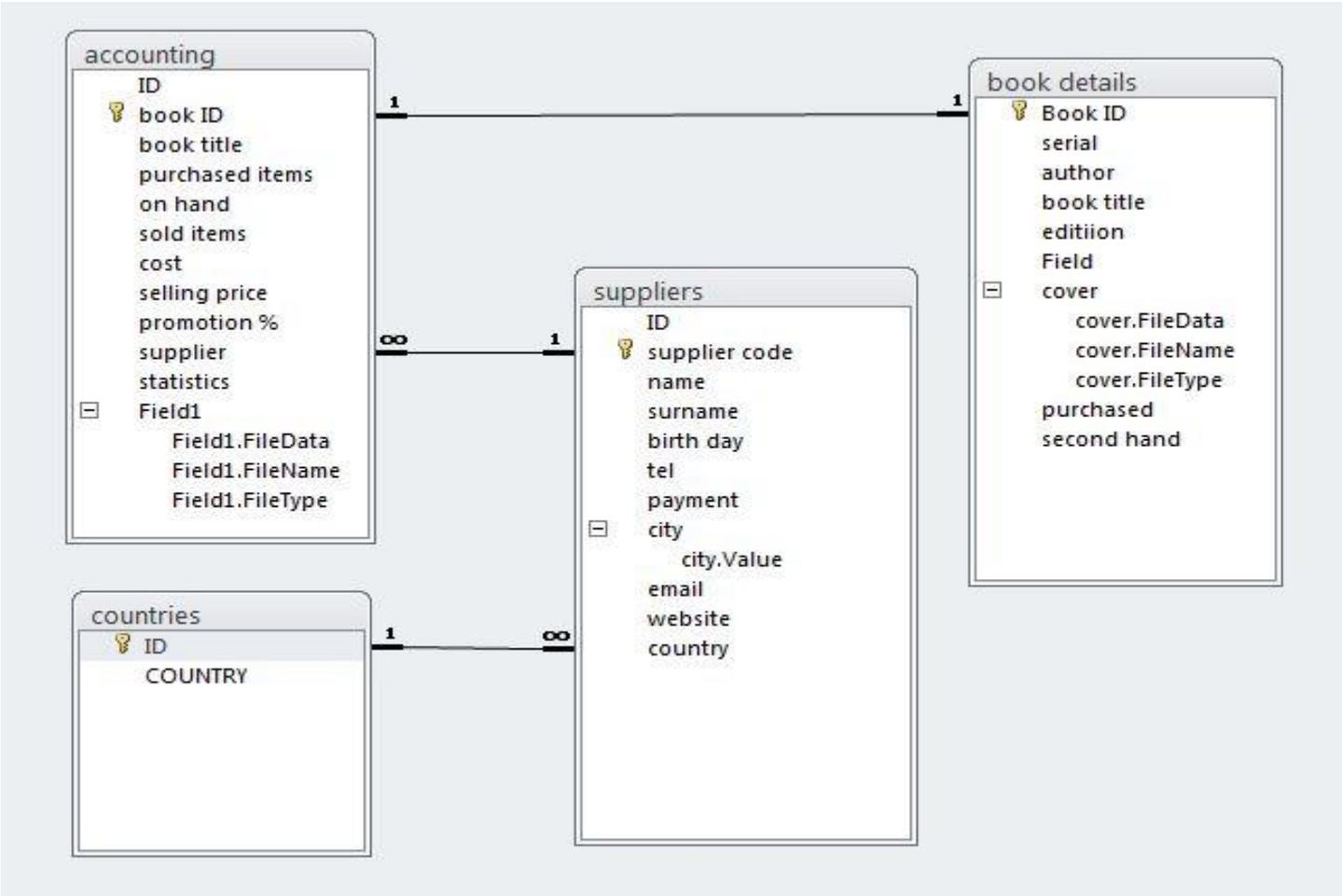
to  
to

Child (Suppliers)

Many  
one



**One to Many**



# HW 4

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.

Send your answers (before 6 november) by email to :

[khaoula.chnina@cc.emu.edu.tr](mailto:khaoula.chnina@cc.emu.edu.tr)

The answers will be available on line before the quiz .

