

## Re: Queries when the "one" table is used several times

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*Source:*

<http://www.tech-archive.net/Archive/Access/microsoft.public.access.queries/2005-09/msg00356.html>

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- *From:* "Allen Browne" <[AllenBrowne@xxxxxxxxxxxxxxxx](mailto:AllenBrowne@xxxxxxxxxxxxxxxx)>
  - *Date:* Sun, 4 Sep 2005 15:38:12 +0800
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The structure you have might be the best way to do it.  
Or, it might be better to use a related table with fields:  
Location the name of the city  
LocationType One of the values 'Origin', 'Destination', etc.

Assuming we stay with your existing structure, that's the right way to define the relationships.

When you create a query into this table, the problem will be with the joins. When you add the Cities table, Access might produce 5 lines between Cities and the original table. That won't work. Delete 4 of them. Then add the Cities table again, and this time leave a different field linked. The query will alias the 2nd copy of the table as Cities\_1. You can right-click this table in the upper pane in query design view, choose Properties, and give it any alias you wish, such as DestinationCities.

The other likely problem occurs where some of these fields are null, i.e. there is no city. The default join type returns only the records that have a match in all tables. To change that, double-click the line joining the tables in query design. Access pops up a dialog with 3 choices. Choose the one that says:

All records from [OriginalTableName], and any matches from Cities.  
By making outer joins like this, the query returns all records from your original table.

If the idea of outer joins is new, see:

The Query Lost My Records!

at:

<http://allenbrowne.com/casu-02.html>

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Allen Browne – Microsoft MVP. Perth, Western Australia.  
Tips for Access users – <http://allenbrowne.com/tips.html>  
Reply to group, rather than allenbrowne at mvps dot org.

"Rich" <[Rich@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:Rich@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)> wrote in message  
[news:71CB6B37-296D-4E17-B173-815298C526B2@xxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:71CB6B37-296D-4E17-B173-815298C526B2@xxxxxxxxxxxxxxxxxxxxxxxx)

Re: Queries when the "one" table is used several times

>I have a project where my "one" table has thousands of unique cities. In  
>this  
> table, I use a city code in the one-to-many relationship with the "many"  
> table. Absolutely straight forward here...basic textbook stuff so far.  
>  
> What's different is the "many" table uses this city table several times  
> (several as in five different fields refer to it). For instance, the  
> "many"  
> table has fields Origin, Destination, From, To, Residence, which are all  
> cities and use the city codes to refer to the "one" table. How do I build  
> queries in this situation and be able to distinguish between the city  
> types?  
> I tried a few things but every time the query would not work, I received  
> no  
> results.  
>  
> I should mention that I defined the one-to-many relationship as follows:  
> In  
> the relationships window, I went to the "Show Tables" menu and selected my  
> Cities table five times, so they displayed as Cities, Cities\_1, Cities\_2,  
> Cities\_3, Cities\_4. Then for each table I connecteds the city code with  
> the  
> appropriate field in the "many" table. Was this proper or not?

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• **Follow-Ups:**

◆ **[Re: Queries when the "one" table is used several times](#)**

◇ From: Rich

• **References:**

◆ **[Queries when the "one" table is used several times](#)**

◇ From: Rich

• Prev by Date: **[RE: How Populate empty fields with zeros..](#)**

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