

## RE: Can inner join be done on queries?

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*Source:*

<http://www.tech-archive.net/Archive/Access/microsoft.public.access.queries/2008-03/msg01252.html>

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- *From:* PatrickM <[PatrickM@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:PatrickM@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Wed, 26 Mar 2008 12:09:02 -0700
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Thanks Jerry for you reply.

Yes, there are definitely matching works numbers in queries 4 and 3.

Thanks for your alternate SQL script, I like the insight.

I tend to build my queries using the QBE grid and avoid writing SQL script as I don't have much SQL background and anyway find it easier and quicker to let the QBE grid write the script for me. I copied your script into the SQL view of the query and found that the QBE grid has a hard time dealing with it, or might not be able to handle it at all. Do you know if the query (as you scripted it in SQL) could be built in the QBE grid and how this would be done? As far as I know the QBE grid has limitations in what SQL script it can represent but I'd be happy to discover otherwise as I like using it.

Thanks,  
Patrick

"Jerry Whittle" wrote:

Are you sure that there are matching records in [0106 treat srccdat gsw 4]?

I'd do it this way:

```
SELECT [0106 treat srccdat gsw 3].*
FROM [0106 treat srccdat gsw 3]
WHERE [0106 treat srccdat gsw 3].Works_number IN
(SELECT [0106 treat srccdat gsw 4].Works_number
FROM [0106 treat srccdat gsw 4]) ;
--
```

Jerry Whittle, Microsoft Access MVP  
Light. Strong. Cheap. Pick two. Keith Bontrager – Bicycle Builder.

"PatrickM" wrote:

I'm running a query that joins two sub-queries. It doesn't work when I use an inner join, but works when I use a left join. The SQL is:

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```
SELECT [0106 treat srccdat gws 3].*  
FROM [0106 treat srccdat gws 4] INNER JOIN [0106 treat srccdat gws  
3] ON  
[0106 treat srccdat gws 4].Works_number = [0106 treat srccdat gws  
3].Works_number;
```

Some relevant points:

- Query 4 is on the left, query 3 is on the right.
- It is a one-to-many match with the 'one' being in 4 and the 'many' in 3.
- The join is on the field 'Works\_number'.
- All works numbers in query 4 are in query 3.
- Query 4 is not a sub-query of query 3 and vice versa.

In theory the query should return the same results whether it uses an inner join or a left join; however in practice the query returns no results if it uses as an inner join and works fine if it uses a left join.

I think the reason it doesn't work as an inner join is that Access does not know which of the two sub-queries (query 4 or query 3) to execute first. By using a left join I give Access the 'directionality' or 'order' that it needs for executing the sub-queries. Is my understanding correct?

Thanks,  
Patrick