PostgreSQL Exercises



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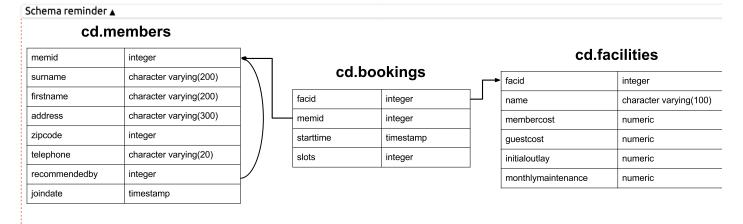
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Produce a list of all members who have used a tennis court

Question

How can you produce a list of all members who have used a tennis court? Include in your output the name of the court and the name of the member formatted as a single column. Ensure no duplicate data, and order by the member name followed by the facility name.



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member facility Anne Baker Tennis Court 1 Anne Baker Tennis Court 2 Burton Tracy Tennis Court 1 Burton Tracy Tennis Court 2 Charles Owen Tennis Court 1 Charles Owen Tennis Court 2

Tennis Court 2

Tennis Court 1

Tennis Court 2

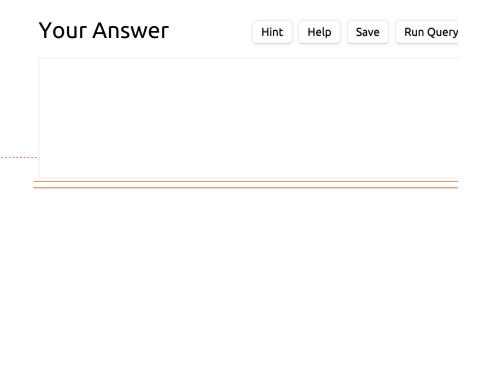
Tennis Court 1

Darren Smith

David Farrell

David Farrell

David Jones



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Answers and Discussion

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This exercise is largely a more complex application of what you've learned in prior questions. It's also the first time we' used more than one join, which may be a little confusing for some. When reading join expressions, remember that a joi is effectively a function that takes two tables, one labelled the left table, and the other the right. This is easy to visuali with just one join in the query, but a little more confusing with two.

Our second INNER JOIN in this query has a right hand side of cd.facilities. That's easy enough to grasp. The left hand side, however, is the table returned by joining cd.members to cd.bookings. It's important to emphasise this: the relational model is all about tables. The output of any join is another table. The output of a query is a table. Single columned lists are tables. Once you grasp that, you've grasped the fundamental beauty of the model.

As a final note, we do introduce one new thing here: the | | operator is used to concatenate strings.

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