PostgreSQL Exercises

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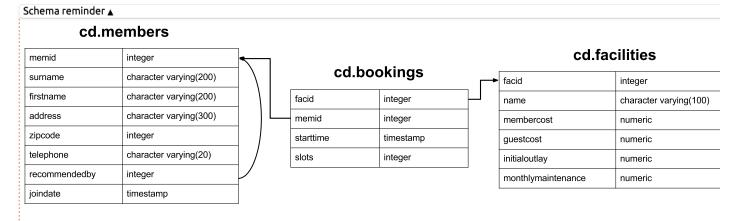
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Produce a list of all members who have recommended another member

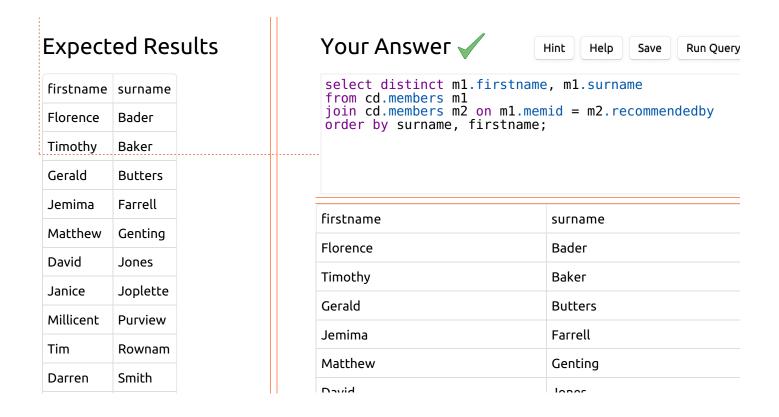


Question

How can you output a list of all members who have recommended another member? Ensure that there are no duplicat in the list, and that results are ordered by (surname, firstname).



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Answers and Discussion

Hide

Here's a concept that some people find confusing: you can join a table to itself! This is really useful if you have columns that reference data in the same table, like we do with recommended by in cd.members.

If you're having trouble visualising this, remember that this works just the same as any other inner join. Our join takes each row in members that has a recommended by value, and looks in members again for the row which has a matching member id. It then generates an output row combining the two members entries. This looks like the diagram below:

						SELECT									
mems.memid	mems.surname	mems.firstname	mems.addre	mems.zipcoo	mems.teleph	mems.recommendedby	mems.joinda	recs.memid	recs.surname	recs.firstname	recs.address	recs.zipcode	recs.telepho	recs.recomm	recs.jo
7	Dare	Nancy	6 Hunting Lo	10383	(833) 776-40	4	2012-07-25 (4	Joplette	Janice	20 Crossing Road	234	(833) 942-47	1	2012-0
11	Jones	David	976 Gnats Cl	33862	(844) 536-80	4	2012-08-06	4	Joplette	Janice	20 Crossing Road	234	(833) 942-47	1	2012-0
35	Hunt	John	5 Bullington	54333	(899) 720-69	30	2012-09-19	30	Purview	Millicent	641 Drudgery Cl	34232	(855) 941-97	2	2012-0
8	Boothe	Tim	3 Bloomsbur	234	(811) 433-25	3	2012-07-25	3	Rownham	Tim	23 Highway Way	23423	(844) 693-07	23	2012-0

Note that while we might have two 'surname' columns in the output set, they can be distinguished by their table aliase Once we've selected the columns that we want, we simply use DISTINCT to ensure that there are no duplicates.

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