PostgreSQL Exercises

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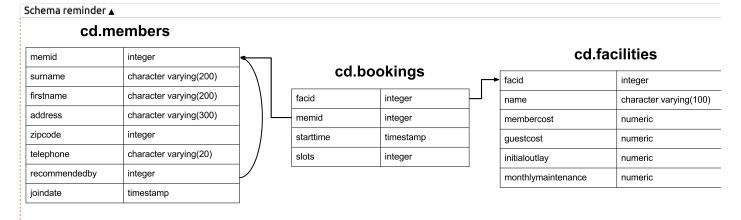
Next Exercis

Produce a list of costly bookings



Question

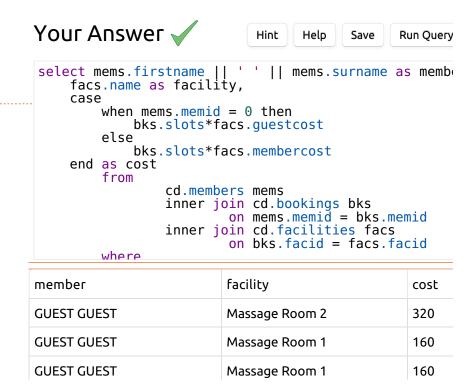
How can you produce a list of bookings on the day of 2012-09-14 which will cost the member (or guest) more than \$30 Remember that guests have different costs to members (the listed costs are per half-hour 'slot'), and the guest user is always ID 0. Include in your output the name of the facility, the name of the member formatted as a single column, and the cost. Order by descending cost, and do not use any subqueries.



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Expected Results

member	facility
GUEST GUEST	Massage Room 2
GUEST GUEST	Massage Room 1
GUEST GUEST	Massage Room 1
GUEST GUEST	Massage Room 1
GUEST GUEST	Tennis Court 2
Jemima Farrell	Massage Room 1
GUEST GUEST	Tennis Court 1
GUEST GUEST	Tennis Court 2
GUEST GUEST	Tennis Court 1
Matthew Genting	Massage Room 1



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Answers and Discussion

Hide

```
select mems.firstname || ' ' || mems.surname as member,
        facs.name as facility,
        case
                when mems.memid = 0 then
                        bks.slots*facs.guestcost
                else
                        bks.slots*facs.membercost
        end as cost
        from
                cd.members mems
                inner join cd.bookings bks
                        on mems.memid = bks.memid
                inner join cd.facilities facs
                        on bks.facid = facs.facid
        where
                bks.starttime >= '2012-09-14' and
                bks.starttime < '2012-09-15' and (
                        (mems.memid = 0 and bks.slots*facs.guestcost > 30) or
                        (mems.memid != 0 and bks.slots*facs.membercost > 30)
order by cost desc;
```

This is a bit of a complicated one! While its more complex logic than we've used previously, there's not an awful lot to remark upon. The WHERE clause restricts our output to sufficiently costly rows on 2012-09-14, remembering to distinguish between guests and others. We then use a CASE statement in the column selections to output the correct cost for the member or guest.

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