

SOLUTIONS

Assessment Test 2

Link to Questions without Solutions:

<https://docs.google.com/document/d/1wiuYbTQslmfolQWgeVPB356csjK6yqOUBhgC7fM44o8/edit?usp=sharing>

Watch the Course Solutions Video if you have any questions!

1. How can you retrieve all the information from the cd.facilities table?
 - **SELECT * FROM cd.facilities;**
2. You want to print out a list of all of the facilities and their cost to members. How would you retrieve a list of only facility names and costs?
 - **SELECT name, membercost FROM cd.facilities;**
3. How can you produce a list of facilities that charge a fee to members?
 - **SELECT * FROM cd.facilities WHERE membercost > 0;**
4. How can you produce a list of facilities that charge a fee to members, and that fee is less than 1/50th of the monthly maintenance cost? Return the facid, facility name, member cost, and monthly maintenance of the facilities in question.
 - **SELECT facid, name, membercost, monthlymaintenance**
FROM cd.facilities
WHERE membercost > 0 AND
(membercost < monthlymaintenance/50.0);

5. How can you produce a list of all facilities with the word 'Tennis' in their name?

- **SELECT * FROM cd.facilities WHERE name LIKE '%Tennis%';**

6. How can you retrieve the details of facilities with ID 1 and 5? Try to do it without using the OR operator.

- **SELECT * FROM cd.facilities WHERE facid IN (1,5);**

7. How can you produce a list of members who joined after the start of September 2012? Return the memid, surname, firstname, and joindate of the members in question.

- **SELECT memid, surname, firstname, joindate
FROM cd.members WHERE joindate >= '2012-09-01';**

8. How can you produce an ordered list of the first 10 surnames in the members table? The list must not contain duplicates.

- **SELECT DISTINCT surname FROM cd.members
ORDER BY surname LIMIT 10;**

9. You'd like to get the signup date of your last member. How can you retrieve this information?

- **SELECT MAX(joindate) AS latest_signup FROM cd.members;**

10. Produce a count of the number of facilities that have a cost to guests of 10 or more.

- **SELECT COUNT(*) FROM cd.facilities WHERE guestcost >= 10;**

11. Produce a list of the total number of slots booked per facility in the month of September 2012. Produce an output table consisting of facility id and slots, sorted by the number of slots.

- **SELECT facid, sum(slots) AS "Total Slots" FROM cd.bookings
WHERE starttime >= '2012-09-01' AND starttime < '2012-10-01'
GROUP BY facid ORDER BY SUM(slots);**

12. Produce a list of facilities with more than 1000 slots booked. Produce an output table consisting of facility id and total slots, sorted by facility id.

- **SELECT facid, sum(slots) AS total_slots FROM cd.bookings
GROUP BY facid HAVING SUM(slots) > 1000 ORDER BY facid;**

13. How can you produce a list of the start times for bookings for tennis courts, for the date '2012-09-21'? Return a list of start time and facility name pairings, ordered by the time.

- **SELECT cd.bookings.starttime AS start, cd.facilities.name
AS name
FROM cd.facilities
INNER JOIN cd.bookings
ON cd.facilities.facid = cd.bookings.facid
WHERE cd.facilities.facid IN (0,1)
AND cd.bookings.starttime >= '2012-09-21'
AND cd.bookings.starttime < '2012-09-22'
ORDER BY cd.bookings.starttime;**

14. How can you produce a list of the start times for bookings by members named 'David Farrell'?

- **SELECT cd.bookings.starttime**

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FROM cd.bookings  
  
INNER JOIN cd.members ON  
  
cd.members.memid = cd.bookings.memid  
  
WHERE cd.members.firstname='David'  
  
AND cd.members.surname='Farrell';
```