Q1: Some of the facilities charge a fee to members, but some do not.

Write a SQL query to produce a list of the names of the facilities that do. \*/

ANS:

SELECT \* FROM Facilities WHERE membercost > 0

Q2: How many facilities do not charge a fee to members? \*/

ANS :4

[**SELECT**](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=0b446a1ecadb0f6ef13e3b07d2f1da04) [COUNT](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fgroup-by-functions.html%23function_count&token=0b446a1ecadb0f6ef13e3b07d2f1da04)( \* )**FROM** `Facilities` **WHERE** membercost [=](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html%23operator_equal&token=0b446a1ecadb0f6ef13e3b07d2f1da04)0

Q3: Write an SQL query to show a list of facilities that charge a fee to members,

where the fee is less than 20% of the facility's monthly maintenance cost.

Return the facid, facility name, member cost, and monthly maintenance of the

facilities in question.

ANS:

[**SELECT**](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=0b446a1ecadb0f6ef13e3b07d2f1da04) facid, name, membercost, monthlymaintenance  
**FROM** Facilities  
**WHERE** membercost [>](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html%23operator_greater-than&token=0b446a1ecadb0f6ef13e3b07d2f1da04)0  
[**AND**](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Flogical-operators.html%23operator_and&token=0b446a1ecadb0f6ef13e3b07d2f1da04) membercost [/](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Farithmetic-functions.html%23operator_divide&token=0b446a1ecadb0f6ef13e3b07d2f1da04) monthlymaintenance [<](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html%23operator_less-than&token=0b446a1ecadb0f6ef13e3b07d2f1da04) 0.2

/\* Q4: Write an SQL query to retrieve the details of facilities with ID 1 and 5.

Try writing the query without using the OR operator. \*/

[**SELECT**](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=0b446a1ecadb0f6ef13e3b07d2f1da04) \*  
**FROM** `Facilities`  
**WHERE** facid  
[**IN**](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html%23function_in&token=0b446a1ecadb0f6ef13e3b07d2f1da04) ( 1, 5 )

Q5: Produce a list of facilities, with each labelled as

'cheap' or 'expensive', depending on if their monthly maintenance cost is

more than $100. Return the name and monthly maintenance of the facilities

in question. \*/

[**SELECT**](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=0b446a1ecadb0f6ef13e3b07d2f1da04) name, monthlymaintenance,  
[**CASE**](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcontrol-flow-functions.html%23operator_case&token=0b446a1ecadb0f6ef13e3b07d2f1da04) **WHEN** monthlymaintenance [>](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html%23operator_greater-than&token=0b446a1ecadb0f6ef13e3b07d2f1da04)100  
**THEN** 'expensive'  
**ELSE** 'cheap'  
**END** **AS** label  
**FROM** `Facilities`

Q6: You'd like to get the first and last name of the last member(s)

who signed up. Try not to use the LIMIT clause for your solution.

[**SELECT**](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=0b446a1ecadb0f6ef13e3b07d2f1da04) firstname, surname  
**FROM** Members  
**WHERE** joindate [=](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html%23operator_equal&token=0b446a1ecadb0f6ef13e3b07d2f1da04) (  
[**SELECT**](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=0b446a1ecadb0f6ef13e3b07d2f1da04) [MAX](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fgroup-by-functions.html%23function_max&token=0b446a1ecadb0f6ef13e3b07d2f1da04)( joindate )  
**FROM** Members )

Q7: 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.

[**SELECT**](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=0b446a1ecadb0f6ef13e3b07d2f1da04) sub.court, [CONCAT](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_concat&token=0b446a1ecadb0f6ef13e3b07d2f1da04)( sub.firstname, ' ', sub.surname ) **AS** name  
**FROM** (

[**SELECT**](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=0b446a1ecadb0f6ef13e3b07d2f1da04) Facilities.name **AS** court, Members.firstname **AS** firstname, Members.surname **AS** surname  
**FROM** Bookings  
**INNER** **JOIN** Facilities **ON** Bookings.facid [=](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html%23operator_equal&token=0b446a1ecadb0f6ef13e3b07d2f1da04) Facilities.facid  
[**AND**](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Flogical-operators.html%23operator_and&token=0b446a1ecadb0f6ef13e3b07d2f1da04) Facilities.name [**LIKE**](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-comparison-functions.html%23operator_like&token=0b446a1ecadb0f6ef13e3b07d2f1da04) 'Tennis Court%'  
**INNER** **JOIN** Members **ON** Bookings.memid [=](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html%23operator_equal&token=0b446a1ecadb0f6ef13e3b07d2f1da04) Members.memid

)sub  
**GROUP** **BY** sub.court, sub.firstname, sub.surname  
**ORDER** **BY** name

Q8: 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's ID is always 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. \*/

[**SELECT**](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=0b446a1ecadb0f6ef13e3b07d2f1da04) Facilities.name **AS** facility, [CONCAT](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_concat&token=0b446a1ecadb0f6ef13e3b07d2f1da04)( Members.firstname, ' ', Members.surname ) **AS** name,  
[**CASE**](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcontrol-flow-functions.html%23operator_case&token=0b446a1ecadb0f6ef13e3b07d2f1da04) **WHEN** Bookings.memid [=](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html%23operator_equal&token=0b446a1ecadb0f6ef13e3b07d2f1da04)0  
**THEN** Facilities.guestcost \* Bookings.slots  
**ELSE** Facilities.membercost \* Bookings.slots  
**END** **AS** cost  
**FROM** Bookings  
**INNER** **JOIN** Facilities **ON** Bookings.facid [=](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html%23operator_equal&token=0b446a1ecadb0f6ef13e3b07d2f1da04) Facilities.facid  
[**AND**](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Flogical-operators.html%23operator_and&token=0b446a1ecadb0f6ef13e3b07d2f1da04) Bookings.starttime [**LIKE**](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-comparison-functions.html%23operator_like&token=0b446a1ecadb0f6ef13e3b07d2f1da04) '2012-09-14%'  
[**AND**](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Flogical-operators.html%23operator_and&token=0b446a1ecadb0f6ef13e3b07d2f1da04) (

(

(

Bookings.memid [=](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html%23operator_equal&token=0b446a1ecadb0f6ef13e3b07d2f1da04)0

)  
[**AND**](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Flogical-operators.html%23operator_and&token=0b446a1ecadb0f6ef13e3b07d2f1da04) (

Facilities.guestcost \* Bookings.slots [>](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html%23operator_greater-than&token=0b446a1ecadb0f6ef13e3b07d2f1da04)30

)

)  
[**OR**](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Flogical-operators.html%23operator_or&token=0b446a1ecadb0f6ef13e3b07d2f1da04) (

(

Bookings.memid [!=](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html%23operator_not-equal&token=0b446a1ecadb0f6ef13e3b07d2f1da04" \t "mysql_doc)0

)  
[**AND**](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Flogical-operators.html%23operator_and&token=0b446a1ecadb0f6ef13e3b07d2f1da04) (

Facilities.membercost \* Bookings.slots [>](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html%23operator_greater-than&token=0b446a1ecadb0f6ef13e3b07d2f1da04)30

)

)

)  
**INNER** **JOIN** Members **ON** Bookings.memid [=](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html%23operator_equal&token=0b446a1ecadb0f6ef13e3b07d2f1da04) Members.memid  
**ORDER** **BY** cost **DESC**

Q9: This time, produce the same result as in Q8, but using a subquery.

[**SELECT**](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=0b446a1ecadb0f6ef13e3b07d2f1da04) \*  
**FROM** (

[**SELECT**](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=0b446a1ecadb0f6ef13e3b07d2f1da04) Facilities.name **AS** facility, [CONCAT](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_concat&token=0b446a1ecadb0f6ef13e3b07d2f1da04)( Members.firstname, ' ', Members.surname ) **AS** name,  
[**CASE**](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcontrol-flow-functions.html%23operator_case&token=0b446a1ecadb0f6ef13e3b07d2f1da04) **WHEN** Bookings.memid [=](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html%23operator_equal&token=0b446a1ecadb0f6ef13e3b07d2f1da04)0  
**THEN** Facilities.guestcost \* Bookings.slots  
**ELSE** Facilities.membercost \* Bookings.slots  
**END** **AS** cost  
**FROM** Bookings  
**INNER** **JOIN** Facilities **ON** Bookings.facid [=](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html%23operator_equal&token=0b446a1ecadb0f6ef13e3b07d2f1da04) Facilities.facid  
[**AND**](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Flogical-operators.html%23operator_and&token=0b446a1ecadb0f6ef13e3b07d2f1da04) Bookings.starttime [**LIKE**](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-comparison-functions.html%23operator_like&token=0b446a1ecadb0f6ef13e3b07d2f1da04) '2012-09-14%'  
**INNER** **JOIN** Members **ON** Bookings.memid [=](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html%23operator_equal&token=0b446a1ecadb0f6ef13e3b07d2f1da04) Members.memid

)sub  
**WHERE** sub.cost [>](https://sql.springboard.com/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html%23operator_greater-than&token=0b446a1ecadb0f6ef13e3b07d2f1da04)30  
**ORDER** **BY** sub.cost **DESC**