/\* Welcome to the SQL mini project. For this project, you will use Springboard' online SQL platform, which you can log into through the following link: https://sql.springboard.com/ Username: student Password: learn sql@springboard The data you need is in the "country club" database. This database contains 3 tables: i) the "Bookings" table, ii) the "Facilities" table, and iii) the "Members" table. Note that, if you need to, you can also download these tables locally. In the mini project, you'll be asked a series of questions. You can solve them using the platform, but for the final deliverable, paste the code for each solution into this script, and upload it to your GitHub. Before starting with the questions, feel free to take your time, exploring the data, and getting acquainted with the 3 tables. \*/ /\* Q1: Some of the facilities charge a fee to members, but some do Please list the names of the facilities that do. \*/ SELECT name, membercost FROM country club. Facilities WHERE membercost >1 /\* Q2: How many facilities do not charge a fee to members? \*/ SELECT COUNT( membercost ) FROM country club. Facilities WHERE membercost =0 /\* Q3: How can you produce a list of facilities that charge a fee to where the fee is less than 20% of the facility's monthly maintenance Return the facid, facility name, member cost, and monthly maintenance of the facilities in question. \*/ SELECT name, membercost, Facid, monthlymaintenance FROM country club. Facilities WHERE membercost < ( .2 \* monthlymaintenance )</pre>

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/* Q4: How can you retrieve the details of facilities with ID 1 and 5?
Write the query without using the OR operator. */
SELECT name, Facid
FROM country club. Facilities
WHERE Facid IN (1,5)
/* Q5: How can you produce a list of facilities, with each labelled as
'cheap' or 'expensive', depending on if their monthly maintenance cost
more than $100? Return the name and monthly maintenance of the
facilities
in question. */
SELECT name, monthlymaintenance,
CASE WHEN monthlymaintenance <100
THEN 'Cheap'
ELSE 'Expensice'
END AS Price
FROM country club. Facilities
/* Q6: You'd like to get the first and last name of the last member(s)
who signed up. Do not use the LIMIT clause for your solution. */
SELECT *
FROM country club. Members
WHERE memid = (
SELECT max( memid )
FROM country club. Members )
/* Q7: 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. */
SELECT DISTINCT
CASE WHEN B.facid =0
THEN 'Tennis Court 1'
ELSE 'Tennis Court 2'
END AS facid,
CASE WHEN M.surname = 'GUEST'
THEN M.surname
ELSE concat( M.surname, ', ', M.firstname )
END AS member name
FROM country club. Bookings B
JOIN country_club.Members M ON B.memid = M.memid
WHERE facid
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IN (0, 1)
ORDER BY member name, facid
/* Q8: How can you produce a list of bookings on the day of 2012-09-14
will cost the member (or guest) more than $30? Remember that guests
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
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 F.name AS Facility name,
CASE
WHEN M.surname = 'GUEST'
THEN M.surname
ELSE CONCAT( M.surname,', ', M.firstname )
END AS Member name,
CASE
WHEN M.surname = 'GUEST'
THEN F.guestcost * B.slots
ELSE F.membercost * B.slots
END AS cost
FROM country club. Bookings B
INNER JOIN country club. Facilities F
ON B.facid = F.facid
INNER JOIN country club. Members M
ON B.memid = M.memid
WHERE B.starttime BETWEEN '2012-09-14' AND '2012-09-15'
HAVING cost >30
ORDER BY cost DESC
/* Q9: This time, produce the same result as in Q8, but using a
subquery. */
SELECT F.name AS Facility name,
CASE
WHEN M.surname = 'GUEST'
THEN M.surname
ELSE CONCAT( M.surname, ', ', M.firstname )
END AS Member name,
CASE
WHEN M.surname = 'GUEST'
THEN F.questcost * B.slots
ELSE F.membercost * B.slots
END AS cost
FROM (SELECT *
      FROM country club. Bookings
      WHERE starttime BETWEEN '2012-09-14' AND '2012-09-15') B
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INNER JOIN country\_club.Facilities F
ON B.facid = F.facid
INNER JOIN country\_club.Members M
ON B.memid = M.memid
HAVING cost >30
ORDER BY cost DESC

/\* Q10: Produce a list of facilities with a total revenue less than 1000.

The output of facility name and total revenue, sorted by revenue. Remember

that there's a different cost for guests and members! \*/

SELECT F.name,
CASE WHEN B.memid =0 THEN B.slots \* F.guestcost
 ELSE B.slots \* F.guestcost END AS Revenue
FROM country\_club.Facilities F
JOIN country\_club.Bookings B ON F.facid = B.facid
GROUP BY F.name
HAVING Revenue <1000
ORDER BY Revenue</pre>